Acquedotto Pugliese S.p.A. - 70121 Bari Via Cognetti, 36 - www.aqp.it - Telefono +39.080.5723111 C.F. e P.IVA 00347000721 REA C.C.I.A.A. di Bari n. 414092

Autorità idrica pugliese

REGIONE PUGLIA

acquedotto pugliese
l'acqua, bene comune

*CUP: E75G19000040005*

PIANO DEGLI INTERVENTI AIP 2020-2023 DI CUI ALLA DELIBERA N.6 DEL 22/02/2021 CON COPERTURA FINANZIARIA " FONDI DERIVANTI DA PROVENTI TARIFFARI"

# PROGETTO DEFINITIVO
# POTENZIAMENTO DELL'IMPIANTO DI DEPURAZIONE E DEL RECAPITO FINALE A SERVIZIO DELL'AGGLOMERATO DEL COMUNE DI SQUINZANO (LE)

Acquedotto Pugliese S.p.A.
Direzione Ingegneria

Il Responsabile del Procedimento
*Ing. Matteo MORELLO*

Il Direttore
*Ing. Gaetano BARBONE*

Ingegneria Ambientale s.r.l.
www.ingegneriambientale.com
info@ingegneriambientale.com

*Ing. Franco NACCI*

*Ing. Stefano SANSONE*

Geoteck plus s.r.l.
www.geoteck-rilievi.com
info@geoteck-rilievi.com

**PROGETTAZIONE**
Il Progettista
*Prof. Ing. Matteo Ranieri*

Il Coordinatore della Sicurezza in fase di progettazione
*Prof. Ing. Matteo Ranieri*

UNING s.r.l.
info@uning.it

Ingegneria s.r.l.
ingegneria@uning.it

*Elaborato*

**R.37.1**

# TABULATI DI CALCOLO STRUTTURALE – PRE-ISPESSITORE DINAMICO –

| *Codice Intervento P1370* | *Codice SAP 210000023391* | *Prot. N. 27346* *Data 23/04/2021* | *Scala:* |
|---|---|---|---|

| N. Rev. | Data | Descrizione | Disegnato | Controllato | Approvato |
|---|---|---|---|---|---|
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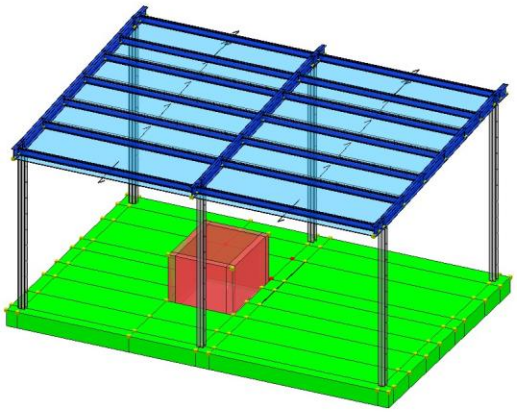


**Vita nominale, classi d'uso e periodo di riferimento**

La costruzione in oggetto è definita dalla seguente tipologia (p.to 2.4 delle NT):

| **Vita della struttura** | |
|---|---|
| Tipo | Opere ordinarie (50-100) |
| Vita nominale VN [anni] | 50.0 |
| Classe d'uso | III |
| Coefficiente d'uso CU | 1.500 |
| Periodo di riferimento VR [anni] | 75.000 |
| Probabilità di superamento PVR allo Stato limite di esercizio - SLD | 63.0% |
| Probabilità di superamento PVR allo Stato limite ultimo - SLV | 10.0% |
| Periodo di ritorno TR SLD [anni] | 75.4 |
| Periodo di ritorno TR SLV [anni] | 711.8 |

Per maggiori dettagli riguardo l'azione sismica si veda la definizione degli spettri di risposta

**Materiali impiegati e resistenze di calcolo**

Per la realizzazione dell'opera in oggetto saranno impiegati i seguenti materiali, di cui si riportano nell'ordine le proprietà meccaniche adottate nel calcolo elastico e le resistenze di calcolo per le verifiche di sicurezza:

| **Materiali** | | |
|---|---|---|
| **C35/45** | | |
| Peso specifico | kN/m^3 | 25.00 |
| Modulo di Young E | MPa | 34100.00 |
| Modulo di Poisson ν | | 0.13 |
| Coefficiente di dilatazione termica λ | 1/°C | 1e-05 |
| **Acciaio** | | |
| Peso specifico | kN/m^3 | 78.50 |
| Modulo di Young E | MPa | 210000.00 |
| Modulo di Poisson ν | | 0.30 |
| Coefficiente di dilatazione termica λ | 1/°C | 1.2e-05 |

| **Caratteristiche dei materiali delle parti in calcestruzzo armato** | | |
|---|---|---|
| Classe calcestruzzo | | Cls C35/45 |
| Resistenza cubica Rck | MPa | 45.0 |
| Resistenza di calcolo fcd | MPa | 21.2 |
| Resistenza a trazione di calcolo fctd | MPa | 1.6 |
| Resistenza cilindrica fck | MPa | 37.4 |

| | | |
|---|---|---|
| Resistenza a trazione media fctm | MPa | 3.4 |
| Classe acciaio barre longitudinali | | Acciaio barre B450C |
| Resistenza allo snervamento fyk | MPa | >=450.0 |
| Resistenza alla rottura barre ftk | MPa | >=540.0 |
| Classe acciaio staffe | | Acciaio barre B450C |
| Resistenza allo snervamento fyk | MPa | >=450.0 |
| Resistenza alla rottura barre ftk | MPa | >=540.0 |
| | | |
| **Caratteristiche dei materiali delle parti in acciaio** | | |
| Acciaio_Pressflessione | | |
| Classe acciaio | | S355 |
| fyd (t<40mm) | MPa | 355.0 |
| fyd (t>40mm) | MPa | 335.0 |
| ft (t<40mm) | MPa | 510.0 |
| ft (t>40mm) | MPa | 470.0 |

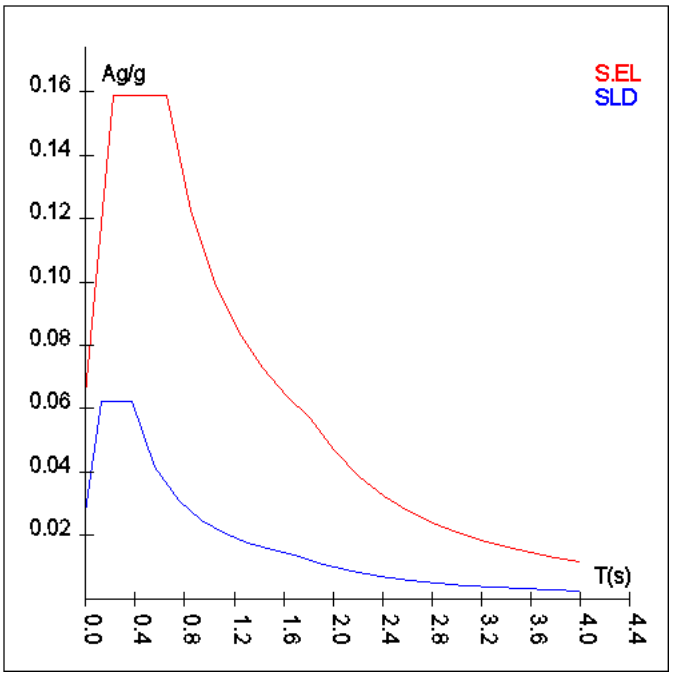
**Spettri di risposta**

Spettro: **SpettroNT_ 2018**
Il calcolo degli spettri e del fattore di comportamento sono stati calcolati per la seguente tipologia di terreno e struttura.

| | |
|---|---|
| **Vita della struttura** | |
| Tipo | Opere ordinarie (50-100) |
| Vita nominale VN [anni] | 50.0 |
| Classe d'uso | III |
| Coefficiente d'uso CU | 1.500 |
| Periodo di riferimento VR [anni] | 75.000 |
| Probabilità di superamento PVR allo Stato limite di esercizio - SLD | 63.0% |
| Probabilità di superamento PVR allo Stato limite ultimo - SLV | 10.0% |
| Periodo di ritorno TR SLD [anni] | 75.4 |
| Periodo di ritorno TR SLV [anni] | 711.8 |
| **Parametri del sito** | |
| Comune | Squinzano (LE) |
| Longitudine | 18.0458 |
| Latitudine | 40.4344 |
| Id reticolo del sito | 34590-34591-34812-34813 |
| **Valori di riferimento del sito** | |
| Accelerazione orizzontale massima del sito Ag/g - SLD (TR=75.4) | 0.0225 |
| Fattore di amplificazione dello spettro Fo - SLD (TR=75.4) | 2.2984 |
| Periodo di riferimento di inizio del tratto a velocità costante T*C [s] - SLD (TR=75.4) | 0.259 |
| Accelerazione orizzontale massima del sito Ag/g - SLV (TR=711.8) | 0.0536 |
| Fattore di amplificazione dello spettro Fo - SLV (TR=711.8) | 2.4663 |
| Periodo di riferimento di inizio del tratto a velocità costante T*C [s] - SLV (TR=711.8) | 0.523 |
| Coefficiente Amplificazione Topografica St | 1.000 |
| Categoria terreno | B |
| **Stato limite SLV** | |
| Coefficiente di amplificazione stratigrafica Ss | 1.20 |
| Periodo di inizio del tratto ad accelerazione costante dello spettro TB [s] | 0.22 |
| Periodo di inizio del tratto a velocità costante dello spettro TC [s] | 0.65 |
| Periodo di inizio del tratto a spostamento costante dello spettro TD [s] | 1.81 |
| **Stato limite SLD** | |
| Coefficiente di amplificazione stratigrafica Ss | 1.20 |
| Periodo di inizio del tratto ad accelerazione costante dello spettro TB [s] | 0.12 |
| Periodo di inizio del tratto a velocità costante dello spettro TC [s] | 0.37 |
| Periodo di inizio del tratto a spostamento costante dello spettro TD [s] | 1.69 |
| **Spettro Elastico** | |
| Smorzamento viscoso % | 5.0 |

| **T El.** [s] | **Sd El.**[a/g] | **T SLD** [s] | **Sd SLD**[a/g] |
|---|---|---|---|
| 0.00000 | 0.06437 | 0.00000 | 0.02706 |
| 0.21825 | 0.15877 | 0.12459 | 0.06219 |
| 0.65475 | 0.15877 | 0.37377 | 0.06219 |
| 0.84805 | 0.12258 | 0.56183 | 0.04137 |
| 1.04136 | 0.09982 | 0.74989 | 0.03100 |
| 1.23466 | 0.08419 | 0.93795 | 0.02478 |
| 1.42797 | 0.07280 | 1.12601 | 0.02064 |
| 1.62128 | 0.06412 | 1.31407 | 0.01769 |
| 1.81458 | 0.05729 | 1.50213 | 0.01547 |
| 2.01326 | 0.04654 | 1.69019 | 0.01375 |

| T El. [s] | Sd El.[a/g] | T SLD [s] | Sd SLD[a/g] |
|---|---|---|---|
| 2.21193 | 0.03855 | 1.92117 | 0.01064 |
| 2.41061 | 0.03246 | 2.15215 | 0.00848 |
| 2.60928 | 0.02771 | 2.38313 | 0.00692 |
| 2.80795 | 0.02392 | 2.61411 | 0.00575 |
| 3.00663 | 0.02087 | 2.84509 | 0.00485 |
| 3.20530 | 0.01836 | 3.07608 | 0.00415 |
| 3.40398 | 0.01628 | 3.30706 | 0.00359 |
| 3.60265 | 0.01453 | 3.53804 | 0.00314 |
| 3.80133 | 0.01305 | 3.76902 | 0.00277 |
| 4.00000 | 0.01179 | 4.00000 | 0.00246 |




**Percentuali Spostamento masse impalcati**

| Posizione | % Spostamento direzione X | % Spostamento direzione Y |
|---|---|---|
| 1 | 0 | -5 |
| 2 | 5 | 0 |
| 3 | 0 | 5 |
| 4 | -5 | 0 |

**Combinazioni del Sisma in X e Y e Verticale**

| Comb. | Pos. SismaX | Pos. SismaY | Fx | Fy | Fz |
|---|---|---|---|---|---|
| 1 | 1 | 2 | 1 | 0.3 | 0 |
| 2 | 1 | 2 | 0.3 | 1 | 0 |
| 3 | 1 | 4 | 1 | 0.3 | 0 |
| 4 | 1 | 4 | 0.3 | 1 | 0 |
| 5 | 3 | 2 | 1 | 0.3 | 0 |
| 6 | 3 | 2 | 0.3 | 1 | 0 |
| 7 | 3 | 4 | 1 | 0.3 | 0 |
| 8 | 3 | 4 | 0.3 | 1 | 0 |

Comb. Numero di combinazione dei sismi
Pos. SismaX Posizione in cui viene scelto il sisma in direzione X
Pos. SismaY Posizione in cui viene scelto il sisma in direzione Y
Fx Fattore con cui il sisma X partecipa
Fy Fattore con cui il sisma Y partecipa
Fz Fattore con cui il sisma Verticale partecipa (quando richiesto)

Ogni combinazione genera al massimo 8 sotto-combinazioni in base a tutte le combinazioni possibili dei segni di Fx ed Fy ed Fz.

Si è considerato un numero di modi di vibrazione sufficiente ad eccitare almeno l'85% della massa sismica in ogni posizione delle masse, di seguito si riportano i risultati salienti dell'analisi modale sia per il calcolo allo Stato Limite Ultimo che per quello di Esercizio.

**Azioni sulla struttura**

| Descrizione | Tipo |
|---|---|
| Peso Proprio | Automatica |
| QP Solai | Automatica |
| Neve | Utente |
| Vento X | Utente |
| Apparecchiature | Utente |
| accidentali | Utente |
| attrezzature idrauliche | Utente |

**Scenario di calcolo**

Scenario : ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO
**Combinazione n° 1:** **Solo Permanenti**
Tipo: STR
Spettro: n.a.
Fattore sisma: n.a.
Angolo ingresso sisma [°]: n.a.
Kmod: 0.60

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1.3 | Si | n.a. | n.a. |
| QP Solai | 1.3 | Si | n.a. | n.a. |
| Neve | 1.5 | No | n.a. | n.a. |
| Vento X | 1 | No | n.a. | n.a. |
| Apparecchiature | 1.5 | Si | n.a. | n.a. |
| accidentali | 1 | No | n.a. | n.a. |
| attrezzature idrauliche | 1.5 | Si | n.a. | n.a. |

**Combinazione n° 2:** **AD 1**
Tipo: STR+GEO
Spettro: n.a.
Fattore sisma: n.a.
Angolo ingresso sisma [°]: n.a.
Kmod: 0.90

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1.3 | Si | n.a. | n.a. |
| QP Solai | 1.3 | Si | n.a. | n.a. |
| Neve | 1.5 | Si | n.a. | n.a. |
| Vento X | 0.9 | Si | n.a. | n.a. |
| Apparecchiature | 1.5 | Si | n.a. | n.a. |
| accidentali | 1.5 | Si | n.a. | n.a. |
| attrezzature idrauliche | 1.5 | Si | n.a. | n.a. |

**Combinazione n° 3:** **AD 2**
Tipo: STR+GEO
Spettro: n.a.
Fattore sisma: n.a.
Angolo ingresso sisma [°]: n.a.
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1.3 | Si | n.a. | n.a. |
| QP Solai | 1.3 | Si | n.a. | n.a. |
| Neve | 0.75 | Si | n.a. | n.a. |
| Vento X | 1.5 | Si | n.a. | n.a. |
| Apparecchiature | 1.5 | Si | n.a. | n.a. |
| accidentali | 1.5 | Si | n.a. | n.a. |
| attrezzature idrauliche | 1.5 | Si | n.a. | n.a. |

**Combinazione n° 4:** **SISMAX1_SLV**
Tipo: Modale STR+GEO
Spettro: SpettroNT_ 2018
Fattore sisma: 1.00

Angolo ingresso sisma [°]: 0
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | Si | 1 |
| QP Solai | 1 | Si | Si | 1 |
| Neve | 1 | No | No | 1 |
| Vento X | 0.2 | No | No | 1 |
| Apparecchiature | 1 | Si | Si | 1 |
| accidentali | 1 | Si | Si | 1 |
| attrezzature idrauliche | 1 | Si | Si | 1 |

**Combinazione n° 5:** **SISMAY1_SLV**
Tipo: Modale STR+GEO
Spettro: SpettroNT_ 2018
Fattore sisma: 1.00
Angolo ingresso sisma [°]: 90
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | Si | 1 |
| QP Solai | 1 | Si | Si | 1 |
| Neve | 1 | No | No | 1 |
| Vento X | 1 | No | No | 1 |
| Apparecchiature | 1 | Si | Si | 1 |
| accidentali | 1 | Si | Si | 1 |
| attrezzature idrauliche | 1 | Si | Si | 1 |

**Combinazione n° 6:** **AD1**
Tipo: SLE Rara
Spettro: n.a.
Fattore sisma: n.a.
Angolo ingresso sisma [°]: n.a.
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | n.a. | n.a. |
| QP Solai | 1 | Si | n.a. | n.a. |
| Neve | 1 | Si | n.a. | n.a. |
| Vento X | 0.2 | Si | n.a. | n.a. |
| Apparecchiature | 1 | Si | n.a. | n.a. |
| accidentali | 1 | Si | n.a. | n.a. |
| attrezzature idrauliche | 1 | Si | n.a. | n.a. |

**Combinazione n° 7:** **AD1**
Tipo: SLE Rara
Spettro: n.a.
Fattore sisma: n.a.
Angolo ingresso sisma [°]: n.a.
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | n.a. | n.a. |
| QP Solai | 1 | Si | n.a. | n.a. |
| Neve | 0.2 | Si | n.a. | n.a. |
| Vento X | 1 | No | n.a. | n.a. |
| Apparecchiature | 1 | No | n.a. | n.a. |
| accidentali | 1 | Si | n.a. | n.a. |
| attrezzature idrauliche | 1 | Si | n.a. | n.a. |

**Combinazione n° 8:** **AD QVSolai**
Tipo: SLE Freq.
Spettro: n.a.
Fattore sisma: n.a.
Angolo ingresso sisma [°]: n.a.
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | n.a. | n.a. |
| QP Solai | 1 | Si | n.a. | n.a. |
| Neve | 0.2 | No | n.a. | n.a. |
| Vento X | 1 | No | n.a. | n.a. |
| Apparecchiature | 1 | Si | n.a. | n.a. |
| accidentali | 1 | Si | n.a. | n.a. |

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| attrezzature idrauliche | 1 | Si | n.a. | n.a. |

**Combinazione n° 9:** **Quasi P1**
Tipo: SLE Q.Perm.
Spettro: n.a.
Fattore sisma: n.a.
Angolo ingresso sisma [°]: n.a.
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | n.a. | n.a. |
| QP Solai | 1 | Si | n.a. | n.a. |
| Neve | 1 | No | n.a. | n.a. |
| Vento X | 1 | No | n.a. | n.a. |
| Apparecchiature | 1 | Si | n.a. | n.a. |
| accidentali | 1 | Si | n.a. | n.a. |
| attrezzature idrauliche | 1 | Si | n.a. | n.a. |

**Combinazione n° 10:** **SISMAX_SLD**
Tipo: Modale SLE
Spettro: SpettroNT_ 2018
Fattore sisma: 1.00
Angolo ingresso sisma [°]: 0
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | Si | 1 |
| QP Solai | 1 | Si | Si | 1 |
| Neve | 1 | No | No | 1 |
| Vento X | 1 | No | No | 1 |
| Apparecchiature | 1 | Si | Si | 1 |
| accidentali | 1 | Si | Si | 1 |
| attrezzature idrauliche | 1 | Si | Si | 1 |

**Combinazione n° 11:** **SISMAX_SLD**
Tipo: Modale SLE
Spettro: SpettroNT_ 2018
Fattore sisma: 1.00
Angolo ingresso sisma [°]: 90
Kmod: 1.00

| Condizione di carico | Fattore di combinazione | Attiva | Massa | Fattore massa |
|---|---|---|---|---|
| Peso Proprio | 1 | Si | Si | 1 |
| QP Solai | 1 | Si | Si | 1 |
| Neve | 1 | No | No | 1 |
| Vento X | 1 | No | No | 1 |
| Apparecchiature | 1 | Si | Si | 1 |
| accidentali | 1 | Si | Si | 1 |
| attrezzature idrauliche | 1 | Si | Si | 1 |

**Criteri di verifica**

| **CLS_Muri_ND** | | |
|---|---|---|
| **Generici** | | |
| Resistenza caratteristica Rck | MPa | 45.0 |
| Tensione caratteristica snervamento acciaio barre fyk | MPa | 450.0 |
| Tensione caratteristica snervamento acciaio staffe fyk | MPa | 450.0 |
| Deformazione unitaria εc0 | | 0.002 |
| Deformazione ultima εcu | | 0.0035 |
| εfu (solo incrudimento) | | 0.002 |
| Modulo elastico E acciaio | MPa | 210000.00 |
| Copriferro di calcolo | mm | 46 |
| Copriferro di disegno | mm | 30 |
| Coefficiente di sicurezza γCls | | 1.5 |
| Coefficiente di sicurezza γAcc | | 1.15 |
| Riduzione fcd calcestruzzo | | 0.85 |
| Usa staffe minime di normativa in assenza di sisma | | Si |
| Usa staffe minime di normativa in presenza di sisma | | No |
| **Generici N.T.** | | |
| Inclinazione bielle compresse cotg(θ) | | 1.00 |
| Modello acciaio | | Incrudente |

| | | |
|---|---|---|
| Incrudimento Ey/E0 | | 0.000 |
| Elemento esistente | | No |
| **Generici D.M. 96 T.A.** | | |
| Tensione ammissibile σc | MPa | 13.5 |
| Tensione ammissibile σc in trazione | MPa | 4.0 |
| Tensione ammissibile σc acciaio | MPa | 260.0 |
| Tensione tangenziale ammissibile τc0 | MPa | 0.8 |
| Tensione tangenziale massima τc1 | MPa | 2.3 |
| Coefficiente di omogeneizzazione n | | 15 |
| Coefficiente di omogeneizzazione n in trazione | | 0.5 |
| Sezione interamente reagente | | No |
| **Fessurazioni** | | |
| Verifica a decompressione | | No |
| Verifica formazione fessure | | No |
| Verifica aperture fessure | | Si |
| Classe di esposizione | | XA2 |
| Tipo armatura | | Poco sensibile |
| Combinazione Rara | | No |
| Combinazione QP | | Si |
| W ammissibile Combinazione QP | mm | 0.200 |
| Combinazione Freq. | | Si |
| W ammissibile Combinazione Freq. | mm | 0.300 |
| Valore caratteristico apertura fessure wk(*wm) | | 1 |
| Resistenza media a trazione fctm | MPa | 3.4 |
| Coefficiente di breve o lunga durata kt | | 0.40 |
| Coefficiente di aderenza k1 | | 0.80 |
| **Tensioni ammissibili di esercizio** | | |
| Verifica Combinazione Rara | | Si |
| Tensione ammissibile σCls | MPa | 22.4 |
| Tensione ammissibile σAcciaio | MPa | 360.0 |
| Verifica Combinazione QP | | Si |
| Tensione ammissibile σCls | MPa | 16.8 |
| Tensione ammissibile σAcciaio | MPa | 360.0 |
| Verifica Combinazione Freq. | | No |
| **Coefficienti di omogeneizzazione** | | |
| Acciaio - Cls compresso | | 15 |
| Cls teso - Cls compresso | | 0.5 |
| **Armatura muri** | | |
| Minima percentuale armatura rispetto al Cls in direzione X | % | 0.1 |
| Minima percentuale armatura rispetto al Cls in direzione Y | % | 0.1 |
| Massima percentuale armatura rispetto al Cls in direzione X | % | 2 |
| Massima percentuale armatura rispetto al Cls in direzione Y | % | 2 |
| **Verifica muri** | | |
| Step incremento armatura | cmq | 0.01 |
| Verifica muri come pareti | | No |

| | | |
|---|---|---|
| **Acciaio_Pressflessione** | | |
| **Verifiche** | | |
| Tipo di acciaio | | S355 |
| σ amm (T<40mm) | MPa | 240.0 |
| σ amm (T>40mm) | MPa | 220.0 |
| Fy (T<40mm) | MPa | 355.0 |
| Fy (T>40mm) | MPa | 335.0 |
| Ft (T<40mm) | MPa | 510.0 |
| Ft (T>40mm) | MPa | 470.0 |
| Piano di verifica | | η |
| Tipo di instabilità | | Pressoflessione senza svergolamento |
| λ Max | | 200 |
| Coefficiente di sicurezza γs | | 1.5 |
| Coefficiente di adattamento plastico Ψx | | 1 |
| Coefficiente di adattamento plastico Ψy | | 1 |
| Costante di ingobbamento Jw | | 1 |
| Usa β | | No |
| Escludi momento flettente trasversale Mz | | No |
| Verifica come pendolo | | No |
| Carichi estradossati | | No |
| **Verifiche N.T. SLU** | | |
| Coefficiente di sicurezza γM | | 1.05 |
| Usa CNR 10011 | | No |
| **Stampe** | | |
| Combinazioni di verifica | | Più gravosa |

| **Verifiche N.T. SLE** | | |
|---|---|---|
| Verifica degli spostamenti verticali | | Si |
| Monta iniziale della trave δc | mm | 0 |
| Limite spostamento nello stato finale | mm | L/250.00 |
| Limite spostamento nello stato finale (mensola) | mm | L/125.00 |
| Limite spostamento dovuto ai soli carichi variabili | mm | L/300.00 |
| Limite spostamento dovuto ai soli carichi variabili (mensola) | mm | L/150.00 |

| **Acciaio_FlessTors** | | |
|---|---|---|
| **Verifiche** | | |
| Tipo di acciaio | | S355 |
| σ amm (T<40mm) | MPa | 240.0 |
| σ amm (T>40mm) | MPa | 220.0 |
| Fy (T<40mm) | MPa | 355.0 |
| Fy (T>40mm) | MPa | 335.0 |
| Ft (T<40mm) | MPa | 510.0 |
| Ft (T>40mm) | MPa | 470.0 |
| Piano di verifica | | η |
| Tipo di instabilità | | Flessotorsione |
| λ Max | | 250 |
| Coefficiente di sicurezza γs | | 1.5 |
| Coefficiente di adattamento plastico Ψx | | 1 |
| Coefficiente di adattamento plastico Ψy | | 1 |
| Costante di ingobbamento Jw | | 1 |
| Usa β | | No |
| Escludi momento flettente trasversale Mz | | No |
| Verifica come pendolo | | No |
| Carichi estradossati | | No |
| **Verifiche N.T. SLU** | | |
| Coefficiente di sicurezza γM | | 1.05 |
| Usa CNR 10011 | | No |
| **Stampe** | | |
| Combinazioni di verifica | | Più gravosa |
| **Verifiche N.T. SLE** | | |
| Verifica degli spostamenti verticali | | Si |
| Monta iniziale della trave δc | mm | 0 |
| Limite spostamento nello stato finale | mm | L/250.00 |
| Limite spostamento nello stato finale (mensola) | mm | L/125.00 |
| Limite spostamento dovuto ai soli carichi variabili | mm | L/300.00 |
| Limite spostamento dovuto ai soli carichi variabili (mensola) | mm | L/150.00 |

**Risultati Analisi Dinamica - Statistiche matrice di rigidezza**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

| | |
|---|---|
| Minimo della diagonale | 3.656014e+05 |
| Massimo della diagonale | 3.807895e+13 |
| Rapporto Max/Min | 1.041543e+08 |
| Media della diagonale | 2.612182e+11 |
| Densità | 1.125505e+00 |

**Dati generali**

| | |
|---|---|
| Nome struttura | |
| Fattore rigidezza assiale pilastri | 1 |
| Numero di frequenze | 15 |
| % Filtro masse libere | 0.1 |
| % Coefficiente di smorzamento viscoso | 5 |
| Spostamenti modali con segno | Si |
| Deformabilità a taglio delle aste | Si |
| Spostamento ammissibile impalcati | 0.0050*h |

**Impalcati**

| N° | Quota | Rigido | Incr.Soll.Pil | Inc.Soll.Par. |
|---|---|---|---|---|
| | mm | mm | | |
| 0 | 0 | No | 1.000 | 1.000 |
| 1 | 5000 | Si | 1.000 | 1.000 |
| 2 | 5550 | Si | 1.000 | 1.000 |

**Percentuali Spostamento masse impalcati**

| Posizione | % Spostamento direzione X | % Spostamento direzione Y |
|---|---|---|
| 1 | 0 | -5 |
| 2 | 5 | 0 |
| 3 | 0 | 5 |
| 4 | -5 | 0 |

**Combinazioni del Sisma in X e Y e Verticale**

| Comb. | Pos. SismaX | Pos. SismaY | Fx | Fy | Fz |
|---|---|---|---|---|---|
| 1 | 1 | 2 | 1 | 0.3 | 0 |
| 2 | 1 | 2 | 0.3 | 1 | 0 |
| 3 | 1 | 4 | 1 | 0.3 | 0 |
| 4 | 1 | 4 | 0.3 | 1 | 0 |
| 5 | 3 | 2 | 1 | 0.3 | 0 |
| 6 | 3 | 2 | 0.3 | 1 | 0 |
| 7 | 3 | 4 | 1 | 0.3 | 0 |
| 8 | 3 | 4 | 0.3 | 1 | 0 |

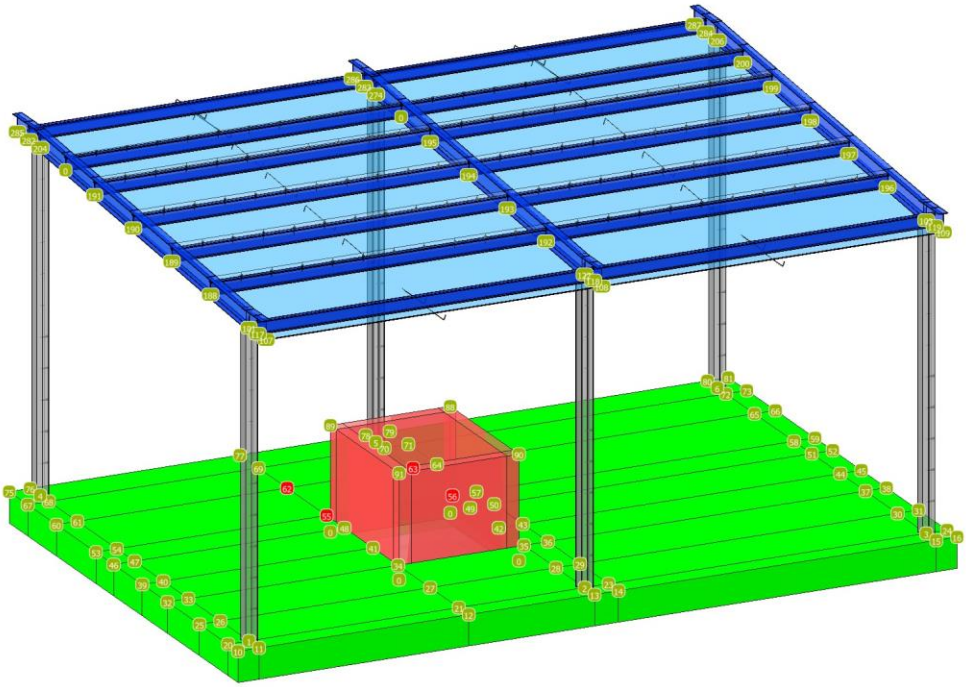
Comb. Numero di combinazione dei sismi
Pos. SismaX Posizione in cui viene scelto il sisma in direzione X
Pos. SismaY Posizione in cui viene scelto il sisma in direzione Y
Fx Fattore con cui il sisma X partecipa
Fy Fattore con cui il sisma Y partecipa
Fz Fattore con cui il sisma Verticale partecipa (quando richiesto)

Ogni combinazione genera al massimo 8 sotto-combinazioni in base a tutte le combinazioni possibili dei segni di Fx ed Fy ed Fz.

**Nodi - Geometria e vincoli**

| Nodo | X | Y | Z | Tx | Ty | Tz | Rx | Ry | Rz | Impalcato |
|---|---|---|---|---|---|---|---|---|---|---|
| | Coordinate [mm] | | | Vincoli | | | | | | |
| 0 | 0 | 6412 | 5475 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 0 | 3540 | 4570 | -250 | 1 | 1 | 0 | 0 | 0 | 1 | -1 |
| 0 | 5540 | 4570 | -250 | 1 | 1 | 0 | 0 | 0 | 1 | -1 |
| 0 | 5540 | 2170 | -250 | 1 | 1 | 0 | 0 | 0 | 1 | -1 |
| 0 | 3540 | 2170 | -250 | 1 | 1 | 0 | 0 | 0 | 1 | -1 |
| 0 | 5600 | 6412 | 5475 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 2 | 5600 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 3 | 11300 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 4 | 0 | 7300 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 5 | 5600 | 7300 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 6 | 11300 | 7300 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 10 | -350 | -350 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 11 | 0 | -350 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 12 | 3500 | -350 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 13 | 5600 | -350 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 14 | 6000 | -350 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 15 | 11300 | -350 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 16 | 11650 | -350 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 20 | -350 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 21 | 3500 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 23 | 6000 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 24 | 11650 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 25 | -350 | 1000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 26 | 0 | 1000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 27 | 3500 | 1000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 28 | 5600 | 1000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 29 | 6000 | 1000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 30 | 11300 | 1000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 31 | 11650 | 1000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 32 | -350 | 2120 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 33 | 0 | 2120 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 34 | 3500 | 2120 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 35 | 5600 | 2120 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 36 | 6000 | 2120 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 37 | 11300 | 2120 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 38 | 11650 | 2120 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 39 | -350 | 3000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 40 | 0 | 3000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 41 | 3500 | 3000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 42 | 5600 | 3000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 43 | 6000 | 3000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |

| Nodo | X | Y | Z | Tx | Ty | Tz | Rx | Ry | Rz | Impalcato |
|---|---|---|---|---|---|---|---|---|---|---|
| 44 | 11300 | 3000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 45 | 11650 | 3000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 46 | -350 | 4000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 47 | 0 | 4000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 48 | 3500 | 4000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 49 | 5600 | 4000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 50 | 6000 | 4000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 51 | 11300 | 4000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 52 | 11650 | 4000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 53 | -350 | 4620 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 54 | 0 | 4620 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 55 | 3500 | 4620 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 56 | 5600 | 4620 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 57 | 6000 | 4620 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 58 | 11300 | 4620 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 59 | 11650 | 4620 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 60 | -350 | 6000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 61 | 0 | 6000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 62 | 3500 | 6000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 63 | 5600 | 6000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 64 | 6000 | 6000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 65 | 11300 | 6000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 66 | 11650 | 6000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 67 | -350 | 7000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 68 | 0 | 7000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 69 | 3500 | 7000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 70 | 5600 | 7000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 71 | 6000 | 7000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 72 | 11300 | 7000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 73 | 11650 | 7000 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 75 | -350 | 7650 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 76 | 0 | 7650 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 77 | 3500 | 7650 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 78 | 5600 | 7650 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 79 | 6000 | 7650 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 80 | 11300 | 7650 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 81 | 11650 | 7650 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 88 | 5540 | 4570 | 1450 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 89 | 3540 | 4570 | 1450 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 90 | 5540 | 2170 | 1450 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 91 | 3540 | 2170 | 1450 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 101 | 0 | 0 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 103 | 11300 | 0 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 107 | 0 | -600 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 108 | 5600 | -600 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 109 | 11300 | -600 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 117 | 0 | -300 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 118 | 5600 | -300 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 119 | 11300 | -300 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 122 | 5600 | 0 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 188 | 0 | 1350 | 5100 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 189 | 0 | 2700 | 5200 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 190 | 0 | 4050 | 5300 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 191 | 0 | 5400 | 5400 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 192 | 5600 | 1350 | 5100 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 193 | 5600 | 2700 | 5200 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 194 | 5600 | 4050 | 5300 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 195 | 5600 | 5400 | 5400 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 196 | 11300 | 1350 | 5100 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 197 | 11300 | 2700 | 5200 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 198 | 11300 | 4050 | 5300 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 199 | 11300 | 5400 | 5400 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 200 | 11300 | 6412 | 5475 | 0 | 0 | 0 | 0 | 0 | 0 | -1 |
| 204 | 0 | 7300 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 206 | 11300 | 7300 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 274 | 5600 | 7300 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 282 | 0 | 7700 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 283 | 5600 | 7700 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 284 | 11300 | 7700 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 285 | 0 | 8100 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 286 | 5600 | 8100 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 287 | 11300 | 8100 | 5550 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |



**Nodi - Carichi**

| N° | Cond. | Fx | Fy | Fz | Mx | My | Mz | Tx | Ty | Tz | Rx | Ry | Rz | Δt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kN | | | kN*m | | | mm | | | ° | | | °C |
| 88 | Apparecchiatura | 0.00 | 0.00 | 10.00 | 0.00 | 0.00 | 0.00 | | | | | | | |
| 89 | Apparecchiatura | 0.00 | 0.00 | 10.00 | 0.00 | 0.00 | 0.00 | | | | | | | |
| 90 | Apparecchiatura | 0.00 | 0.00 | 10.00 | 0.00 | 0.00 | 0.00 | | | | | | | |
| 91 | Apparecchiatura | 0.00 | 0.00 | 10.00 | 0.00 | 0.00 | 0.00 | | | | | | | |

**Input - Aste - Tabella sezioni tipo**

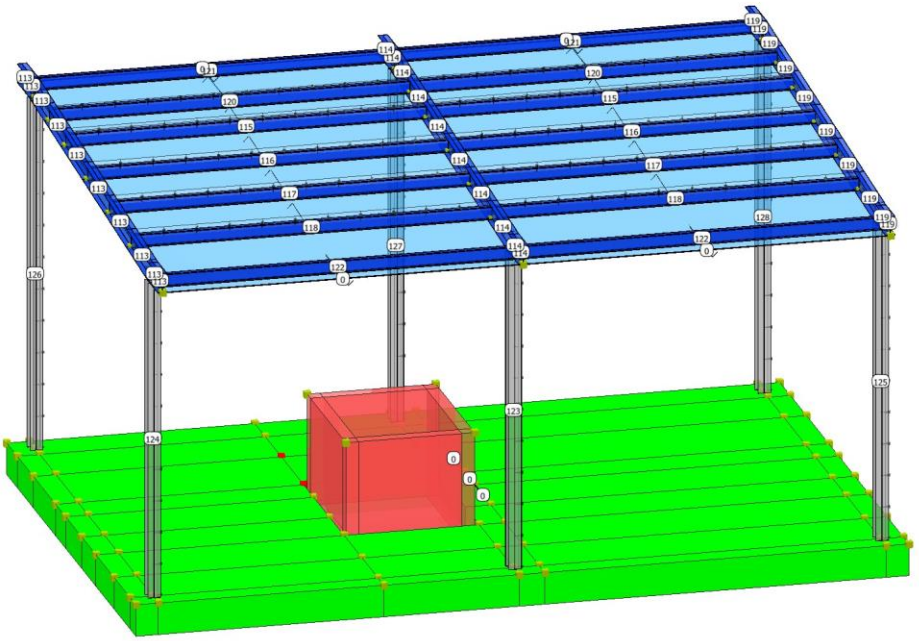
| Tipo | Nome | Area | Ix | Iy | It | Fx | Fy | Lx | Lx |
|---|---|---|---|---|---|---|---|---|---|
| G | | cmq | cm^4 | cm^4 | cm^4 | | | mm | mm |
| | HE 200 A | 53.8 | 3692.15 | 1335.51 | 20.98 | 1.000 | 1.000 | 200 | 190 |
| | IPE 300 | 53.8 | 8362.53 | 603.82 | 19.84 | 1.830 | 2.593 | 150 | 300 |
| | IPE 200 | 28.5 | 1944.91 | 142.38 | 6.88 | 1.794 | 2.599 | 100 | 200 |

**Aste - Geometria e vincoli**

| | Ni | Nf | Vinc. | Sez. | Mat. | Crit.pr. | Rot. | f.f. | xi | yi | zi | xf | yf | zf | Tipo | L2 | L3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ° | | mm | | | | | | | mm | |
| 123 | 2 | 122 | I-I | HE 200 A | Acciaio | Acciaio_Pressflessione | 0.0 | 5050 | 0 | 0 | 0 | 0 | 0 | 0 | Pila. | 5000 | 5000 |
| 124 | 1 | 101 | I-I | HE 200 A | Acciaio | Acciaio_Pressflessione | 0.0 | 5050 | 0 | 0 | 0 | 0 | 0 | 0 | Pila. | 5000 | 5000 |
| 125 | 3 | 103 | I-I | HE 200 A | Acciaio | Acciaio_Pressflessione | 0.0 | 5050 | 0 | 0 | 0 | 0 | 0 | 0 | Pila. | 5000 | 5000 |
| 126 | 4 | 204 | I-I | HE 200 A | Acciaio | Acciaio_Pressflessione | 0.0 | 5050 | 0 | 0 | 0 | 0 | 0 | 0 | Pila. | 5550 | 5550 |

| | Ni | Nf | Vinc. | Sez. | Mat. | Crit.pr. | Rot. | f.f. | xi | yi | zi | xf | yf | zf | Tipo | L2 | L3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 127 | 5 | 274 | I-I | HE 200 A | Acciaio | Acciaio_Pressflessione | 0.0 | 5050 | 0 | 0 | 0 | 0 | 0 | 0 | Pila. | 5550 | 5550 |
| 128 | 6 | 206 | I-I | HE 200 A | Acciaio | Acciaio_Pressflessione | 0.0 | 5050 | 0 | 0 | 0 | 0 | 0 | 0 | Pila. | 5550 | 5550 |
| 113 | 107 | 117 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 300 | 300 |
| 113 | 117 | 101 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 300 | 300 |
| 113 | 101 | 188 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 113 | 188 | 189 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 113 | 189 | 190 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 113 | 190 | 191 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 113 | 191 | 0 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1015 | 1015 |
| 113 | 0 | 204 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 891 | 891 |
| 113 | 204 | 282 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 400 | 400 |
| 113 | 282 | 285 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 400 | 400 |
| 114 | 108 | 118 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 300 | 300 |
| 114 | 118 | 122 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 300 | 300 |
| 114 | 122 | 192 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 114 | 192 | 193 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 114 | 193 | 194 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 114 | 194 | 195 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 114 | 195 | 0 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1015 | 1015 |
| 114 | 0 | 274 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 891 | 891 |
| 114 | 274 | 283 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 400 | 400 |
| 114 | 283 | 286 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 400 | 400 |
| 115 | 191 | 195 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5600 | 5600 |
| 115 | 195 | 199 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5700 | 5700 |
| 116 | 190 | 194 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5600 | 5600 |

| | Ni | Nf | Vinc. | Sez. | Mat. | Crit.pr. | Rot. | f.f. | xi | yi | zi | xf | yf | zf | Tipo | L2 | L3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 116 | 194 | 198 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5700 | 5700 |
| 117 | 189 | 193 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5600 | 5600 |
| 117 | 193 | 197 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5700 | 5700 |
| 118 | 188 | 192 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5600 | 5600 |
| 118 | 192 | 196 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5700 | 5700 |
| 119 | 109 | 119 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 300 | 300 |
| 119 | 119 | 103 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 300 | 300 |
| 119 | 103 | 196 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 119 | 196 | 197 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 119 | 197 | 198 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 119 | 198 | 199 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1354 | 1354 |
| 119 | 199 | 200 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 1015 | 1015 |
| 119 | 200 | 206 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 891 | 891 |
| 119 | 206 | 284 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 400 | 400 |
| 119 | 284 | 287 | I-I | IPE 300 | Acciaio | Acciaio_FlessTors | 0.0 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 400 | 400 |
| 120 | 0 | 0 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5600 | 5600 |
| 120 | 0 | 200 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5700 | 5700 |
| 121 | 282 | 283 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | -0 | 0 | 0 | -0 | 0 | Trave | 5600 | 5600 |
| 121 | 283 | 284 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | -0 | 0 | -4 | -0 | 11 | Trave | 5700 | 5700 |
| 122 | 117 | 118 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | 0 | 0 | 0 | Trave | 5600 | 5600 |
| 122 | 118 | 119 | I-I | IPE 200 | Acciaio | Acciaio_FlessTors | 0.0 | 2020 | 0 | 0 | 0 | -4 | 0 | 11 | Trave | 5700 | 5700 |



**Aste - Carichi**
Descrizione carichi aste
UnifG Uniforme globale
UnifL Uniforme locale
VarG Variabile lineare globale
VarL Variabile lineare locale
PolG Poligonale globale
Termico Distorsione termica
Torcente Carico torcente
Precomp. Carico da precompressione
PolL Poligonale locale

| Sezione | Ni | Nf | Cond. | Tipo c. | Xi | QXi | QYi | QZi | Xf | QXf | QYf | QZf |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | mm | car. dist. kN/m coppie torc. kN | | | mm | car. dist. kN/m coppie torc. kN | | |
| **Pilastro 123** | | | | | | | | | | | | |
| HE 200 A | 2 | 122 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 5000 | 0.00 | 0.00 | 0.42 |
| HE 200 A | 2 | 122 | Vento X | UnifG | 0 | 0.15 | 0.00 | 0.00 | 5000 | 0.15 | 0.00 | 0.00 |
| **Pilastro 124** | | | | | | | | | | | | |
| HE 200 A | 1 | 101 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 5000 | 0.00 | 0.00 | 0.42 |
| HE 200 A | 1 | 101 | Vento X | UnifG | 0 | 0.15 | 0.00 | 0.00 | 5000 | 0.15 | 0.00 | 0.00 |
| **Pilastro 125** | | | | | | | | | | | | |
| HE 200 A | 3 | 103 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 5000 | 0.00 | 0.00 | 0.42 |
| HE 200 A | 3 | 103 | Vento X | UnifG | 0 | 0.15 | 0.00 | 0.00 | 5000 | 0.15 | 0.00 | 0.00 |
| **Pilastro 126** | | | | | | | | | | | | |
| HE 200 A | 4 | 204 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 5550 | 0.00 | 0.00 | 0.42 |
| HE 200 A | 4 | 204 | Vento X | UnifG | 0 | 0.15 | 0.00 | 0.00 | 5550 | 0.15 | 0.00 | 0.00 |
| **Pilastro 127** | | | | | | | | | | | | |
| HE 200 A | 5 | 274 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 5550 | 0.00 | 0.00 | 0.42 |
| HE 200 A | 5 | 274 | Vento X | UnifG | 0 | 0.15 | 0.00 | 0.00 | 5550 | 0.15 | 0.00 | 0.00 |
| **Pilastro 128** | | | | | | | | | | | | |
| HE 200 A | 6 | 206 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 5550 | 0.00 | 0.00 | 0.42 |
| HE 200 A | 6 | 206 | Vento X | UnifG | 0 | 0.15 | 0.00 | 0.00 | 5550 | 0.15 | 0.00 | 0.00 |
| **Trave 0** | | | | | | | | | | | | |
| Sezione Nulla | 43 | 50 | Apparecchiature | UnifG | 0 | 0.00 | 0.00 | 10.00 | 1000 | 0.00 | 0.00 | 10.00 |
| Sezione Nulla | 50 | 57 | Apparecchiature | UnifG | 0 | 0.00 | 0.00 | 10.00 | 620 | 0.00 | 0.00 | 10.00 |
| Sezione Nulla | 57 | 64 | Apparecchiature | UnifG | 0 | 0.00 | 0.00 | 10.00 | 1380 | 0.00 | 0.00 | 10.00 |
| Sezione Nulla | 107 | 108 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.04 | 5600 | 0.00 | 0.00 | 0.04 |
| Sezione Nulla | 107 | 108 | Neve | PolL | 0 | 0.00 | 0.00 | 0.07 | 5600 | 0.00 | 0.00 | 0.07 |

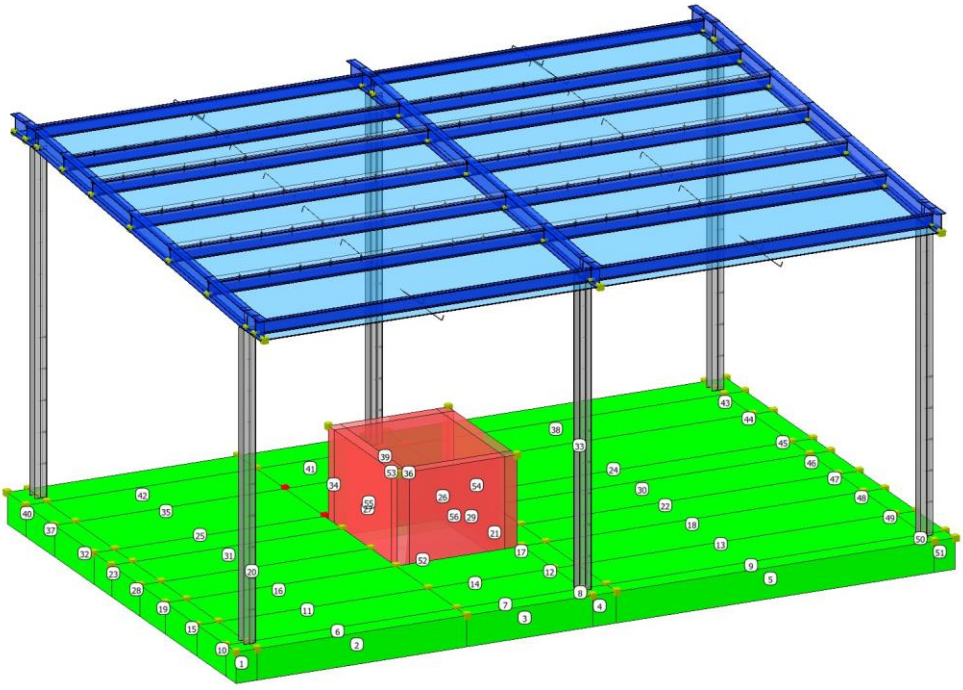
| Sezione | Ni | Nf | Cond. | Tipo c. | Xi | QXi | QYi | QZi | Xf | QXf | QYf | QZf |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sezione Nulla | 108 | 109 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.04 | 5700 | 0.00 | 0.00 | 0.04 |
| Sezione Nulla | 108 | 109 | Neve | PolL | 0 | 0.00 | 0.00 | 0.07 | 5700 | 0.00 | 0.00 | 0.07 |
| Sezione Nulla | 285 | 286 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.06 | 5600 | 0.00 | 0.00 | 0.06 |
| Sezione Nulla | 285 | 286 | Neve | PolL | 0 | 0.00 | 0.00 | 0.10 | 5600 | 0.00 | 0.00 | 0.10 |
| Sezione Nulla | 286 | 287 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.06 | 5700 | 0.00 | 0.00 | 0.06 |
| Sezione Nulla | 286 | 287 | Neve | PolL | 0 | 0.00 | 0.00 | 0.10 | 5700 | 0.00 | 0.00 | 0.10 |
| **Trave 113** | | | | | | | | | | | | |
| IPE 300 | 0 | 204 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 985 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 101 | 188 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 101 | 188 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.00 | 1354 | 0.00 | 0.00 | 0.00 |
| IPE 300 | 101 | 188 | Neve | PolL | 0 | 0.00 | 0.00 | 0.00 | 1354 | 0.00 | 0.00 | 0.00 |
| IPE 300 | 107 | 117 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 300 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 117 | 101 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 395 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 188 | 189 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 189 | 190 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 190 | 191 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 191 | 0 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1015 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 204 | 282 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 400 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 282 | 285 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 400 | 0.00 | 0.00 | 0.42 |
| **Trave 114** | | | | | | | | | | | | |
| IPE 300 | 0 | 274 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 985 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 108 | 118 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 300 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 118 | 122 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 395 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 122 | 192 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 122 | 192 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.00 | 102 | 0.00 | 0.00 | 0.00 |
| | | | | | 102 | 0.00 | 0.00 | 0.00 | 1354 | 0.00 | 0.00 | 0.00 |
| IPE 300 | 122 | 192 | Neve | PolL | 102 | 0.00 | 0.00 | 0.00 | 1354 | 0.00 | 0.00 | 0.00 |
| IPE 300 | 122 | 192 | Neve | PolL | 0 | 0.00 | 0.00 | 0.00 | 1354 | 0.00 | 0.00 | 0.00 |
| IPE 300 | 192 | 193 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 193 | 194 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 194 | 195 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 195 | 0 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1015 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 274 | 283 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 400 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 283 | 286 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 400 | 0.00 | 0.00 | 0.42 |
| **Trave 115** | | | | | | | | | | | | |
| IPE 200 | 191 | 195 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5600 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 191 | 195 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.36 | 5600 | 0.00 | 0.00 | 0.36 |
| IPE 200 | 191 | 195 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5600 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 191 | 195 | Neve | PolL | 0 | 0.00 | -0.02 | 0.25 | 5600 | 0.00 | -0.02 | 0.25 |
| IPE 200 | 191 | 195 | Vento X | PolL | 0 | 0.00 | -0.02 | 0.28 | 5600 | 0.00 | -0.02 | 0.28 |
| IPE 200 | 191 | 195 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5600 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 195 | 199 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5700 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 195 | 199 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.36 | 5700 | 0.00 | 0.00 | 0.36 |
| IPE 200 | 195 | 199 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5700 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 195 | 199 | Neve | PolL | 0 | 0.00 | -0.02 | 0.25 | 5700 | 0.00 | -0.02 | 0.25 |
| IPE 200 | 195 | 199 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5700 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 195 | 199 | Vento X | PolL | 0 | 0.00 | -0.02 | 0.28 | 5700 | 0.00 | -0.02 | 0.28 |
| **Trave 116** | | | | | | | | | | | | |
| IPE 200 | 190 | 194 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5600 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 190 | 194 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.41 | 5600 | 0.00 | 0.00 | 0.41 |
| IPE 200 | 190 | 194 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5600 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 190 | 194 | Neve | PolL | 0 | 0.00 | -0.02 | 0.34 | 5600 | 0.00 | -0.02 | 0.34 |
| IPE 200 | 190 | 194 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5600 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 190 | 194 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5600 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 194 | 198 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5700 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 194 | 198 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.41 | 5700 | 0.00 | 0.00 | 0.41 |
| IPE 200 | 194 | 198 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5700 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 194 | 198 | Neve | PolL | 0 | 0.00 | -0.02 | 0.34 | 5700 | 0.00 | -0.02 | 0.34 |
| IPE 200 | 194 | 198 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5700 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 194 | 198 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5700 | 0.00 | -0.03 | 0.37 |
| **Trave 117** | | | | | | | | | | | | |
| IPE 200 | 189 | 193 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5600 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 189 | 193 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.41 | 5600 | 0.00 | 0.00 | 0.41 |
| IPE 200 | 189 | 193 | Neve | PolL | 0 | 0.00 | -0.02 | 0.34 | 5600 | 0.00 | -0.02 | 0.34 |
| IPE 200 | 189 | 193 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5600 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 189 | 193 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5600 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 189 | 193 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5600 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 193 | 197 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5700 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 193 | 197 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.41 | 5700 | 0.00 | 0.00 | 0.41 |
| IPE 200 | 193 | 197 | Neve | PolL | 0 | 0.00 | -0.02 | 0.34 | 5700 | 0.00 | -0.02 | 0.34 |

| Sezione | Ni | Nf | Cond. | Tipo c. | Xi | QXi | QYi | QZi | Xf | QXf | QYf | QZf |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IPE 200 | 193 | 197 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5700 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 193 | 197 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5700 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 193 | 197 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5700 | 0.00 | -0.03 | 0.37 |
| **Trave 118** | | | | | | | | | | | | |
| IPE 200 | 188 | 192 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5600 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 188 | 192 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.45 | 5600 | 0.00 | 0.00 | 0.45 |
| IPE 200 | 188 | 192 | Neve | PolL | 0 | -0.01 | 0.00 | 0.41 | 5600 | -0.01 | 0.00 | 0.41 |
| IPE 200 | 188 | 192 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5600 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 188 | 192 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5600 | 0.00 | -0.03 | 0.37 |
| IPE 200 | 192 | 196 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5700 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 192 | 196 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.45 | 5700 | 0.00 | 0.00 | 0.45 |
| IPE 200 | 192 | 196 | Neve | PolL | 0 | -0.01 | 0.00 | 0.41 | 5700 | -0.01 | 0.00 | 0.41 |
| IPE 200 | 192 | 196 | Neve | PolL | 0 | 0.00 | -0.03 | 0.34 | 5700 | 0.00 | -0.03 | 0.34 |
| IPE 200 | 192 | 196 | Vento X | PolL | 0 | 0.00 | -0.03 | 0.37 | 5700 | 0.00 | -0.03 | 0.37 |
| **Trave 119** | | | | | | | | | | | | |
| IPE 300 | 103 | 196 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 103 | 196 | QP Solai | PolG | 102 | 0.00 | 0.00 | 0.00 | 1354 | 0.00 | 0.00 | 0.00 |
| IPE 300 | 103 | 196 | Neve | PolL | 102 | 0.00 | 0.00 | 0.00 | 1354 | 0.00 | 0.00 | 0.00 |
| IPE 300 | 109 | 119 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 300 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 119 | 103 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 395 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 196 | 197 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 197 | 198 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 198 | 199 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1354 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 199 | 200 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 1015 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 200 | 206 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 985 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 206 | 284 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 400 | 0.00 | 0.00 | 0.42 |
| IPE 300 | 284 | 287 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.42 | 400 | 0.00 | 0.00 | 0.42 |
| **Trave 120** | | | | | | | | | | | | |
| IPE 200 | 0 | 200 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5700 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 0 | 0 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5600 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 0 | 0 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.35 | 5600 | 0.00 | 0.00 | 0.35 |
| IPE 200 | 0 | 200 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.35 | 5700 | 0.00 | 0.00 | 0.35 |
| IPE 200 | 0 | 0 | Neve | PolL | 0 | 0.00 | 0.00 | 0.32 | 5600 | 0.00 | 0.00 | 0.32 |
| IPE 200 | 0 | 0 | Neve | PolL | 0 | 0.00 | -0.02 | 0.25 | 5600 | 0.00 | -0.02 | 0.25 |
| IPE 200 | 0 | 200 | Neve | PolL | 0 | 0.00 | -0.02 | 0.25 | 5700 | 0.00 | -0.02 | 0.25 |
| IPE 200 | 0 | 200 | Neve | PolL | 0 | 0.00 | 0.00 | 0.32 | 5700 | 0.00 | 0.00 | 0.32 |
| IPE 200 | 0 | 0 | Vento X | PolL | 0 | 0.00 | -0.02 | 0.28 | 5600 | 0.00 | -0.02 | 0.28 |
| IPE 200 | 0 | 200 | Vento X | PolL | 0 | 0.00 | -0.02 | 0.28 | 5700 | 0.00 | -0.02 | 0.28 |
| **Trave 121** | | | | | | | | | | | | |
| IPE 200 | 282 | 283 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5600 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 282 | 283 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.25 | 5600 | 0.00 | 0.00 | 0.25 |
| IPE 200 | 282 | 283 | Neve | PolL | 0 | 0.00 | -0.00 | 0.32 | 5600 | 0.00 | -0.00 | 0.32 |
| IPE 200 | 282 | 283 | Neve | PolL | 0 | 0.00 | 0.00 | 0.10 | 5600 | 0.00 | 0.00 | 0.10 |
| IPE 200 | 283 | 284 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5696 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 283 | 284 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.25 | 5696 | 0.00 | 0.00 | 0.25 |
| IPE 200 | 283 | 284 | Neve | PolL | 0 | 0.00 | 0.00 | 0.32 | 5696 | 0.00 | 0.00 | 0.32 |
| IPE 200 | 283 | 284 | Neve | PolL | 0 | 0.00 | 0.00 | 0.10 | 5696 | 0.00 | 0.00 | 0.10 |
| **Trave 122** | | | | | | | | | | | | |
| IPE 200 | 117 | 118 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5600 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 117 | 118 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.29 | 5600 | 0.00 | 0.00 | 0.29 |
| IPE 200 | 117 | 118 | Neve | PolL | 0 | 0.00 | 0.00 | 0.07 | 5600 | 0.00 | 0.00 | 0.07 |
| IPE 200 | 117 | 118 | Neve | PolL | 0 | -0.01 | 0.00 | 0.41 | 5600 | -0.01 | 0.00 | 0.41 |
| IPE 200 | 118 | 119 | Peso Proprio | UnifG | 0 | 0.00 | 0.00 | 0.22 | 5696 | 0.00 | 0.00 | 0.22 |
| IPE 200 | 118 | 119 | QP Solai | PolG | 0 | 0.00 | 0.00 | 0.29 | 5696 | 0.00 | 0.00 | 0.29 |
| IPE 200 | 118 | 119 | Neve | PolL | 0 | -0.01 | 0.00 | 0.41 | 5696 | -0.01 | 0.00 | 0.41 |
| IPE 200 | 118 | 119 | Neve | PolL | 0 | 0.00 | 0.00 | 0.07 | 5696 | 0.00 | 0.00 | 0.07 |

**Pareti - geometria e vincoli**

| Parete | Nodi | Tipo | Materiale | Criterio | N.P. | N.P.X | N.P.Y | Spess. |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | mm |
| 1 | 10-20-1-11 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 2 | 11-1-21-12 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 3 | 12-21-2-13 | Platea | C35/45 | CLS_Muri_ND | 8 | | | 500 |
| 4 | 13-2-23-14 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 5 | 14-23-3-15 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 6 | 1-26-27-21 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 7 | 21-27-28-2 | Platea | C35/45 | CLS_Muri_ND | 8 | | | 500 |
| 8 | 2-28-29-23 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 9 | 23-29-30-3 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 10 | 20-25-26-1 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 11 | 26-33-34-27 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 12 | 28-35-36-29 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 13 | 29-36-37-30 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 14 | 27-34-35-28 | Platea | C35/45 | CLS_Muri_ND | 8 | | | 500 |

| Parete | Nodi | Tipo | Materiale | Criterio | N.P. | N.P.X | N.P.Y | Spess. |
|---|---|---|---|---|---|---|---|---|
| 15 | 25-32-33-26 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 16 | 33-40-41-34 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 17 | 35-42-43-36 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 18 | 36-43-44-37 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 19 | 32-39-40-33 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 20 | 40-47-48-41 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 21 | 42-49-50-43 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 22 | 43-50-51-44 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 23 | 46-53-54-47 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 24 | 57-64-65-58 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 25 | 54-61-62-55 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 26 | 56-63-64-57 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 27 | 55-62-63-56 | Platea | C35/45 | CLS_Muri_ND | 8 | | | 500 |
| 28 | 39-46-47-40 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 29 | 49-56-57-50 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 30 | 50-57-58-51 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 31 | 47-54-55-48 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 32 | 53-60-61-54 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 33 | 64-71-72-65 | Platea | C35/45 | CLS_Muri_ND | 20 | | | 500 |
| 34 | 62-69-70-63 | Platea | C35/45 | CLS_Muri_ND | 8 | | | 500 |
| 35 | 61-68-69-62 | Platea | C35/45 | CLS_Muri_ND | 16 | | | 500 |
| 36 | 63-70-71-64 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 37 | 60-67-68-61 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 38 | 71-79-80-6-72 | Platea | C35/45 | CLS_Muri_ND | 23 | | | 500 |
| 39 | 70-5-78-79-71 | Platea | C35/45 | CLS_Muri_ND | 9 | | | 500 |
| 40 | 67-75-76-4-68 | Platea | C35/45 | CLS_Muri_ND | 9 | | | 500 |
| 41 | 69-77-78-5-70 | Platea | C35/45 | CLS_Muri_ND | 11 | | | 500 |
| 42 | 68-4-76-77-69 | Platea | C35/45 | CLS_Muri_ND | 19 | | | 500 |
| 43 | 72-6-80-81-73 | Platea | C35/45 | CLS_Muri_ND | 9 | | | 500 |
| 44 | 65-72-73-66 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 45 | 58-65-66-59 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 46 | 51-58-59-52 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 47 | 44-51-52-45 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 48 | 37-44-45-38 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 49 | 30-37-38-31 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 50 | 3-30-31-24 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 51 | 15-3-24-16 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 500 |
| 52 | 0-0-0-0 | Platea | C35/45 | CLS_Muri_ND | 4 | | | 400 |
| 53 | 0-0-88-89 | Discreto | C35/45 | CLS_Muri_ND | 4 | | | 200 |
| 54 | 0-0-90-88 | Discreto | C35/45 | CLS_Muri_ND | 4 | | | 200 |
| 55 | 0-0-89-91 | Discreto | C35/45 | CLS_Muri_ND | 4 | | | 200 |
| 56 | 0-0-91-90 | Discreto | C35/45 | CLS_Muri_ND | 4 | | | 200 |



**Muri - Carichi**

Shell Indice dello shell
Cond. Condizione di carico
Tipo Tipologia di spinta
γ Peso specifico: terreno o acqua
Q Valore del carico uniforme
Vert.1 Valore del carico nel primo vertice(1)
Vert.2 Valore del carico nel secondo vertice(1)
Vert.3 Valore del carico nel terzo vertice(1)
Vert.4 Valore del carico nel quarto vertice(1)
Hw Altezza del pelo libero dell'acqua
(1): Per shell con numero di vertici maggiori 4, per carichi trapezoidali, il valore del carico nei vertici e' stampato a gruppi di 4 secondo l'ordine con cui i vertici sono stati definiti

| Shell | Cond. | Tipo | Q | Vert.1 | Vert.2 | Vert.3 | Vert.4 | Hw | γ |
|---|---|---|---|---|---|---|---|---|---|
| | | | kN/m^2 | kN/m^2 | kN/m^2 | kN/m^2 | kN/m^2 | mm | kN/m^3 |
| 1 | Peso Proprio | Peso Proprio kN | 1.53 | | | | | | |
| 1 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 1 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 2 | Peso Proprio | Peso Proprio kN | 15.31 | | | | | | |
| 2 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 2 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 3 | Peso Proprio | Peso Proprio kN | 9.19 | | | | | | |
| 3 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 3 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 4 | Peso Proprio | Peso Proprio kN | 1.75 | | | | | | |
| 4 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 4 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 5 | Peso Proprio | Peso Proprio kN | 23.19 | | | | | | |
| 5 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 5 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 6 | Peso Proprio | Peso Proprio kN | 43.75 | | | | | | |
| 6 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 6 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 7 | Peso Proprio | Peso Proprio kN | 26.25 | | | | | | |
| 7 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 7 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 8 | Peso Proprio | Peso Proprio kN | 5.00 | | | | | | |
| 8 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 8 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 9 | Peso Proprio | Peso Proprio kN | 66.25 | | | | | | |
| 9 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 9 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 10 | Peso Proprio | Peso Proprio kN | 4.38 | | | | | | |
| 10 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 10 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 11 | Peso Proprio | Peso Proprio kN | 49.00 | | | | | | |
| 11 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 11 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 12 | Peso Proprio | Peso Proprio kN | 5.60 | | | | | | |
| 12 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 12 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 13 | Peso Proprio | Peso Proprio kN | 74.20 | | | | | | |
| 13 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 13 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 14 | Peso Proprio | Peso Proprio kN | 29.40 | | | | | | |
| 14 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 14 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 15 | Peso Proprio | Peso Proprio kN | 4.90 | | | | | | |
| 15 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 15 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |

| Shell | Cond. | Tipo | Q | Vert.1 | Vert.2 | Vert.3 | Vert.4 | Hw | γ |
|---|---|---|---|---|---|---|---|---|---|
| 16 | Peso Proprio | Peso Proprio kN | 38.50 | | | | | | |
| 16 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 16 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 17 | Peso Proprio | Peso Proprio kN | 4.40 | | | | | | |
| 17 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 17 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 18 | Peso Proprio | Peso Proprio kN | 58.30 | | | | | | |
| 18 | Apparecchiature | Uniforme_GLOBZ | 30.00 | | | | | | |
| 18 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 18 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 19 | Peso Proprio | Peso Proprio kN | 3.85 | | | | | | |
| 19 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 19 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 20 | Peso Proprio | Peso Proprio kN | 43.75 | | | | | | |
| 20 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 20 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 21 | Peso Proprio | Peso Proprio kN | 5.00 | | | | | | |
| 21 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 21 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 22 | Peso Proprio | Peso Proprio kN | 66.25 | | | | | | |
| 22 | Apparecchiature | Uniforme_GLOBZ | 30.00 | | | | | | |
| 22 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 23 | Peso Proprio | Peso Proprio kN | 2.71 | | | | | | |
| 23 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 23 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 24 | Peso Proprio | Peso Proprio kN | 91.43 | | | | | | |
| 24 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 25 | Peso Proprio | Peso Proprio kN | 60.38 | | | | | | |
| 25 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 25 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 26 | Peso Proprio | Peso Proprio kN | 6.90 | | | | | | |
| 26 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 26 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 27 | Peso Proprio | Peso Proprio kN | 36.22 | | | | | | |
| 27 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 27 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 28 | Peso Proprio | Peso Proprio kN | 4.38 | | | | | | |
| 28 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 28 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 29 | Peso Proprio | Peso Proprio kN | 3.10 | | | | | | |
| 29 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 29 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 30 | Peso Proprio | Peso Proprio kN | 41.08 | | | | | | |
| 30 | Apparecchiature | Uniforme_GLOBZ | 30.00 | | | | | | |
| 30 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 31 | Peso Proprio | Peso Proprio kN | 27.13 | | | | | | |
| 31 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 31 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 32 | Peso Proprio | Peso Proprio kN | 6.04 | | | | | | |
| 32 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 32 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 33 | Peso Proprio | Peso Proprio kN | 66.25 | | | | | | |
| 33 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 33 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 34 | Peso Proprio | Peso Proprio kN | 26.25 | | | | | | |

| Shell | Cond. | Tipo | Q | Vert.1 | Vert.2 | Vert.3 | Vert.4 | Hw | γ |
|---|---|---|---|---|---|---|---|---|---|
| 34 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 34 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 35 | Peso Proprio | Peso Proprio kN | 43.75 | | | | | | |
| 35 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 35 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 36 | Peso Proprio | Peso Proprio kN | 5.00 | | | | | | |
| 36 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 36 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 37 | Peso Proprio | Peso Proprio kN | 4.38 | | | | | | |
| 37 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 37 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 38 | Peso Proprio | Peso Proprio kN | 43.06 | | | | | | |
| 38 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 38 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 39 | Peso Proprio | Peso Proprio kN | 3.25 | | | | | | |
| 39 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 39 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 40 | Peso Proprio | Peso Proprio kN | 2.84 | | | | | | |
| 40 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 40 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 41 | Peso Proprio | Peso Proprio kN | 17.06 | | | | | | |
| 41 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 41 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 42 | Peso Proprio | Peso Proprio kN | 28.44 | | | | | | |
| 42 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 42 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 43 | Peso Proprio | Peso Proprio kN | 2.84 | | | | | | |
| 43 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 43 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 44 | Peso Proprio | Peso Proprio kN | 4.37 | | | | | | |
| 44 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 44 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 45 | Peso Proprio | Peso Proprio kN | 6.04 | | | | | | |
| 45 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 45 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 46 | Peso Proprio | Peso Proprio kN | 2.71 | | | | | | |
| 46 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 46 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 47 | Peso Proprio | Peso Proprio kN | 4.37 | | | | | | |
| 47 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 47 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 48 | Peso Proprio | Peso Proprio kN | 3.85 | | | | | | |
| 48 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 48 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 49 | Peso Proprio | Peso Proprio kN | 4.90 | | | | | | |
| 49 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 49 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 50 | Peso Proprio | Peso Proprio kN | 4.37 | | | | | | |
| 50 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 50 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 51 | Peso Proprio | Peso Proprio kN | 1.53 | | | | | | |
| 51 | accidentali | Uniforme_GLOBZ | 20.00 | | | | | | |
| 51 | attrezzature idrauliche | Uniforme_GLOBZ | 3.00 | | | | | | |
| 52 | Peso Proprio | Peso Proprio kN | 48.00 | | | | | | |
| 53 | Peso Proprio | Peso Proprio kN | 17.00 | | | | | | |
| 54 | Peso Proprio | Peso Proprio kN | 20.40 | | | | | | |
| 55 | Peso Proprio | Peso Proprio kN | 20.40 | | | | | | |
| 56 | Peso Proprio | Peso Proprio kN | 17.00 | | | | | | |

**Tabella solai tipo**

| Sol.N° | Descrizione | Spessore | QP | QF | QVar. | ψ0 | ψ1 | ψ2 | Luce netta | Def | %QX | %QY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | kN/m^2 | kN/m^2 | kN/m^2 | | | | | | | |
| 1 | Coperture Acciaio | 60 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | No | No | 100 | 0 |

**Dati solai**

| Solaio n° | Nodi | Tipo |
|---|---|---|
| 1 | 189-188-192-193 | Coperture Acciaio |
| 1 | 190-189-193-194 | Coperture Acciaio |
| 1 | 191-190-194-195 | Coperture Acciaio |
| 1 | 117-107-108-118 | Coperture Acciaio |
| 1 | 285-282-283-286 | Coperture Acciaio |
| 1 | 282-204-0-0-274-283 | Coperture Acciaio |
| 1 | 0-191-195-0 | Coperture Acciaio |
| 1 | 101-117-118-122-192-188 | Coperture Acciaio |
| 2 | 195-194-198-199 | Coperture Acciaio |
| 2 | 194-193-197-198 | Coperture Acciaio |
| 2 | 286-283-284-287 | Coperture Acciaio |
| 2 | 193-192-196-197 | Coperture Acciaio |
| 2 | 118-108-109-119 | Coperture Acciaio |
| 2 | 122-118-119-103-196-192 | Coperture Acciaio |
| 2 | 283-274-0-200-206-284 | Coperture Acciaio |
| 2 | 0-195-199-200 | Coperture Acciaio |

**Risultati Analisi Dinamica - Baricentri masse e masse**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

| Piano | Rigido | Massa | X | Y | Z |
|---|---|---|---|---|---|
| | | kN | mm | mm | mm |
| 0 | No | 0.00 | 0 | 0 | 0 |
| 1 | Si | 11.13 | 5642 | -236 | 5000 |
| 2 | Si | 11.11 | 5642 | 7539 | 5550 |

| Piano | Rigido | Massa | X | Y | Z |
|---|---|---|---|---|---|
| | | kN | mm | mm | mm |
| 0 | No | 0.00 | 0 | 0 | 0 |
| 1 | Si | 11.13 | 6207 | -206 | 5000 |
| 2 | Si | 11.11 | 6207 | 7579 | 5550 |

| Piano | Rigido | Massa | X | Y | Z |
|---|---|---|---|---|---|
| | | kN | mm | mm | mm |
| 0 | No | 0.00 | 0 | 0 | 0 |
| 1 | Si | 11.13 | 5642 | -176 | 5000 |
| 2 | Si | 11.11 | 5642 | 7619 | 5550 |

| Piano | Rigido | Massa | X | Y | Z |
|---|---|---|---|---|---|
| | | kN | mm | mm | mm |
| 0 | No | 0.00 | 0 | 0 | 0 |
| 1 | Si | 11.13 | 5077 | -206 | 5000 |
| 2 | Si | 11.11 | 5077 | 7579 | 5550 |

**Verifica Degli Spostamenti Relativi**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

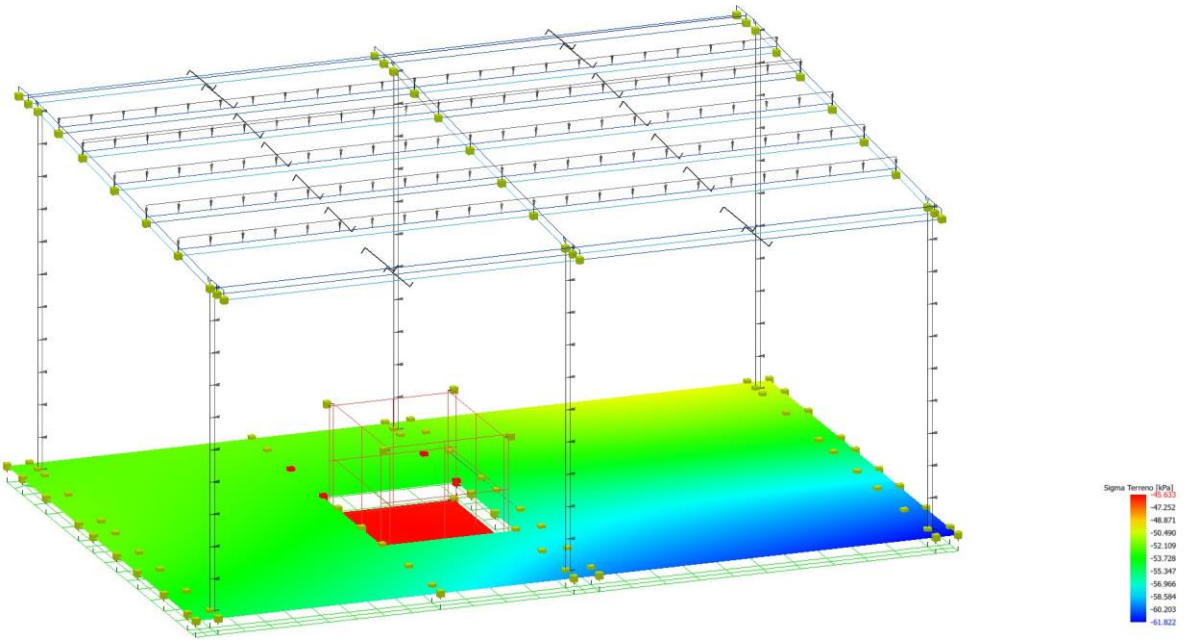
| Interp. | Comb. | ηXv | ηXh | ηYv | ηYh | Nodo1 | Nodo2 | η | ηAmm | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | mm | | | mm | mm | |
| 0-1 | (10+11)-I-3 | 0.1 | 4.4 | 0.1 | 0.3 | 1 | 101 | 4.5 | 25.0 | 5.6 |
| 0-1 | (10+11)-I-3 | 0.0 | 4.4 | 0.0 | 0.4 | 2 | 122 | 4.4 | 25.0 | 5.6 |
| 0-1 | (10+11)-I-3 | 0.0 | 4.4 | 0.1 | 0.5 | 3 | 103 | 4.4 | 25.0 | 5.6 |
| 0-2 | (10+11)-V-4 | 0.1 | 5.3 | 0.3 | 0.5 | 4 | 204 | 5.5 | 27.8 | 5.1 |
| 0-2 | (10+11)-V-4 | 0.1 | 5.3 | 0.2 | 0.4 | 5 | 274 | 5.4 | 27.8 | 5.1 |
| 0-2 | (10+11)-V-4 | 0.0 | 5.3 | 0.1 | 0.3 | 6 | 206 | 5.3 | 27.8 | 5.2 |
| **Minimo** | | | | | | | | | | |

| Interp. | Comb. | ηXv | ηXh | ηYv | ηYh | Nodo1 | Nodo2 | η | ηAmm | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-2 | (10+11)-V-4 | 0.1 | 5.3 | 0.3 | 0.5 | 4 | 204 | 5.5 | 27.8 | 5.1 |

**Risultati Analisi Dinamica - Sollecitazioni massime per combinazione - Sigma terreno platea**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

| Combinazione | Muro | Nodi | SigmaMax | SigmaMin |
|---|---|---|---|---|
| | | | kPa | kPa |
| 2 | 51 | 15-3-24-16 | 61.8 | 45.6 |
| 3 | 51 | 15-3-24-16 | 61.5 | 45.6 |
| 4-I-1 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 4-II-1 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 4-I-2 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 4-II-2 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 4-I-3 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 4-II-3 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 4-I-4 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 4-II-4 | 52 | 0-0-0-0 | 46.1 | 21.8 |
| 5-I-1 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| 5-II-1 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| 5-I-2 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| 5-II-2 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| 5-I-3 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| 5-II-3 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| 5-I-4 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| 5-II-4 | 52 | 0-0-0-0 | 43.5 | 24.5 |
| Assoluti | | | | |
| 2 | 51 | 15-3-24-16 | 61.8 | |
| 4-I-3 | 52 | 0-0-0-0 | | 21.8 |

Tipo diagramma: Tensioni medie terreno
Combinazione corrente : Scenario ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO - C 2
Tensioni medie terreno aste
Tensioni medie terreno platee



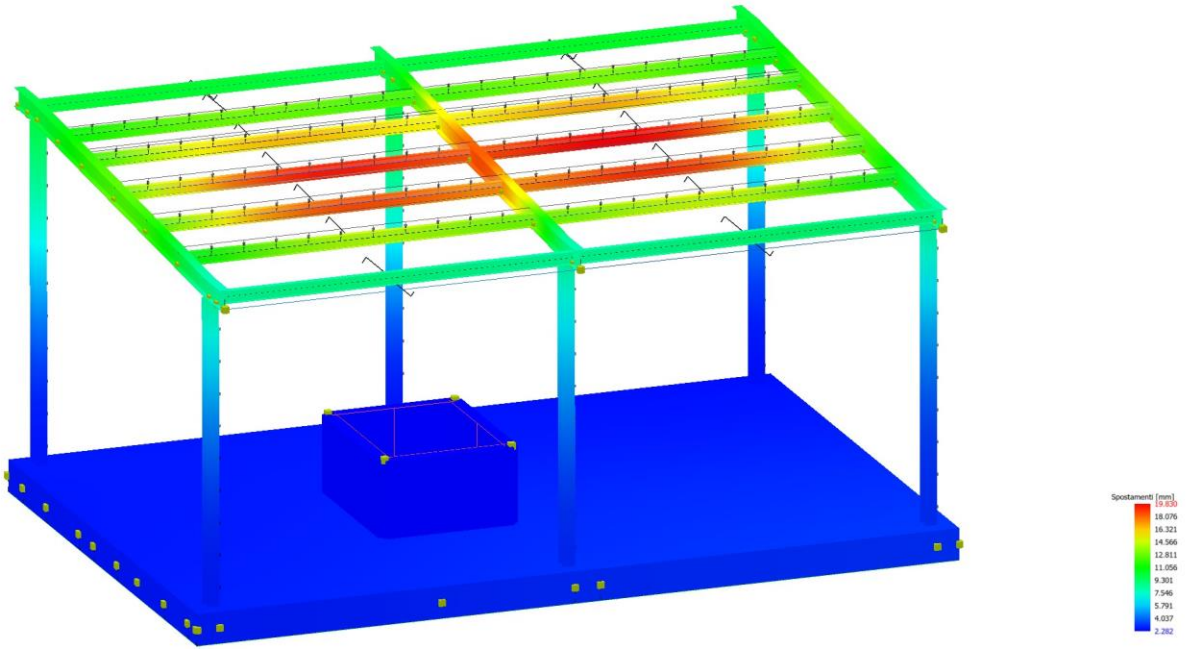

**Risultati Analisi Dinamica - Spostamenti massimi - Nodi**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

la tripletta (Cb [-SubC-Cbm]) indica la Combinazione - SottoCombinazione sismica - Posizione Masse, nel caso non sismico mancano SubC-Cbm

| Nodo | Trasl. X | Trasl. Y | Trasl. Z | Rotaz. X | Rotaz. Y | Rotaz. Z |
|---|---|---|---|---|---|---|
| | mm | mm | mm | ° | ° | ° |
| 0 | 24.4(4-I-3) | 4.0(5-I-3) | -7.4(2) | 0.3(2) | 0.0(1) | 0.0(3) |
| 0 | 0.0(1) | 0.0(1) | -2.3(4-I-3) | -0.0(5-II-4) | -0.0(4-I-3) | 0.0(1) |
| 0 | 0.0(1) | 0.0(1) | -2.3(4-II-3) | -0.0(5-II-4) | 0.0(4-II-3) | 0.0(1) |
| 0 | 0.0(1) | 0.0(1) | -2.3(4-II-3) | 0.0(5-I-4) | 0.0(4-II-3) | 0.0(1) |
| 0 | 0.0(1) | 0.0(1) | -2.3(4-I-3) | 0.0(5-I-4) | -0.0(4-I-3) | 0.0(1) |
| 0 | -24.4(4-II-3) | 4.2(5-I-4) | -4.7(2) | 0.1(2) | 0.1(2) | 0.0(3) |
| 1 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 2 | 0.0(1) | 0.0(1) | -3.0(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 3 | 0.0(1) | 0.0(1) | -3.1(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 4 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 5 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 6 | 0.0(1) | 0.0(1) | -2.5(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 10 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 11 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 12 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 13 | 0.0(1) | 0.0(1) | -3.0(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 14 | 0.0(1) | 0.0(1) | -3.0(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 15 | 0.0(1) | 0.0(1) | -3.1(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 16 | 0.0(1) | 0.0(1) | -3.1(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 20 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 21 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 23 | 0.0(1) | 0.0(1) | -3.0(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 24 | 0.0(1) | 0.0(1) | -3.1(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 25 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 26 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 27 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 28 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 29 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 30 | 0.0(1) | 0.0(1) | -3.0(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 31 | 0.0(1) | 0.0(1) | -3.0(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 32 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 33 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 34 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 35 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 36 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 37 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 38 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 39 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 40 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 41 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 42 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 43 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 44 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 45 | 0.0(1) | 0.0(1) | -2.9(2) | 0.0(2) | 0.0(1) | 0.0(1) |
| 46 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 47 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 48 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 49 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 50 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 51 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 52 | 0.0(1) | 0.0(1) | -2.8(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 53 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 54 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 55 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 56 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 57 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 58 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 59 | 0.0(1) | 0.0(1) | -2.7(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 60 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 61 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 62 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 63 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 64 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 65 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 66 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(3) | 0.0(1) | 0.0(1) |
| 67 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 68 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 69 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 70 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 71 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 72 | 0.0(1) | 0.0(1) | -2.5(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 73 | 0.0(1) | 0.0(1) | -2.5(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 75 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |

| Nodo | Trasl. X | Trasl. Y | Trasl. Z | Rotaz. X | Rotaz. Y | Rotaz. Z |
|---|---|---|---|---|---|---|
| 76 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 77 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(5-II-4) | 0.0(1) | 0.0(1) |
| 78 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 79 | 0.0(1) | 0.0(1) | -2.6(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 80 | 0.0(1) | 0.0(1) | -2.5(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 81 | 0.0(1) | 0.0(1) | -2.5(2) | 0.0(1) | 0.0(1) | 0.0(1) |
| 88 | 1.0(4-II-3) | 0.7(5-II-4) | -2.3(4-II-3) | -0.0(5-II-4) | 0.0(4-II-3) | 0.0(5-I-3) |
| 89 | -1.0(4-I-3) | 0.7(5-II-4) | -2.3(4-I-3) | -0.0(5-II-4) | -0.0(4-I-3) | -0.0(5-II-4) |
| 90 | 1.0(4-II-3) | -0.7(5-I-4) | -2.3(4-II-3) | 0.0(5-I-4) | 0.0(4-II-3) | -0.0(5-II-3) |
| 91 | -1.0(4-I-3) | -0.7(5-I-4) | -2.3(4-I-3) | 0.0(5-I-4) | -0.0(4-I-3) | 0.0(5-II-3) |
| 101 | 19.5(4-I-1) | 3.8(5-I-4) | -2.8(2) | -0.1(2) | 0.3(4-I-1) | 0.0(4-II-3) |
| 103 | -19.4(4-II-1) | -3.8(5-II-2) | -3.1(2) | -0.1(2) | -0.3(4-II-1) | -0.0(4-I-3) |
| 107 | 20.2(4-I-1) | 3.8(5-I-4) | -1.8(5-II-4) | -0.1(2) | 0.1(2) | -0.0(4-I-3) |
| 108 | 20.2(4-I-1) | 3.6(5-I-3) | -1.7(5-II-1) | -0.2(2) | 0.0(1) | -0.0(4-I-3) |
| 109 | 20.2(4-I-1) | -3.8(5-II-2) | -2.0(5-II-2) | -0.1(2) | -0.1(2) | -0.0(4-I-3) |
| 117 | 20.2(4-I-1) | 3.8(5-I-4) | -2.2(2) | -0.1(2) | 0.1(2) | -0.0(4-I-3) |
| 118 | 20.2(4-I-1) | 3.6(5-I-3) | -2.0(2) | -0.2(2) | 0.0(1) | -0.0(4-I-3) |
| 119 | 20.2(4-I-1) | -3.8(5-II-2) | -2.5(2) | -0.1(2) | -0.1(2) | -0.0(4-I-3) |
| 122 | 19.4(4-I-1) | 3.6(5-I-3) | -3.2(2) | -0.2(2) | -0.3(4-II-1) | -0.0(4-I-3) |
| 188 | -21.8(4-II-1) | 4.0(5-I-4) | -5.9(2) | -0.1(2) | 0.2(2) | 0.1(4-II-3) |
| 189 | -23.3(4-II-1) | 4.1(5-I-4) | -8.2(2) | -0.1(2) | 0.2(2) | 0.1(4-II-3) |
| 190 | -24.2(4-II-1) | 4.2(5-I-4) | -8.5(2) | 0.0(2) | 0.2(2) | 0.0(2) |
| 191 | -24.5(4-II-3) | 4.2(5-I-4) | -6.9(2) | 0.1(2) | 0.2(2) | 0.0(2) |
| 192 | 21.8(4-I-1) | 3.7(5-I-3) | -10.0(2) | -0.3(2) | 0.0(2) | -0.1(4-I-3) |
| 193 | 23.2(4-I-1) | 3.9(5-I-3) | -15.4(2) | -0.1(2) | 0.0(2) | -0.1(4-I-3) |
| 194 | 24.2(4-I-1) | 4.1(5-I-3) | -16.3(2) | 0.1(2) | 0.0(2) | -0.0(4-I-3) |
| 195 | 24.5(4-I-3) | 4.1(5-I-3) | -12.4(2) | 0.2(2) | 0.0(2) | 0.0(2) |
| 196 | 21.8(4-I-1) | 3.9(5-I-2) | -6.3(2) | -0.1(2) | -0.2(2) | -0.1(4-I-3) |
| 197 | 23.4(4-I-1) | 4.0(5-I-2) | -8.5(2) | -0.1(2) | -0.2(2) | -0.1(4-I-3) |
| 198 | 24.3(4-I-1) | 4.1(5-I-2) | -8.7(2) | 0.0(2) | -0.3(2) | -0.0(4-I-3) |
| 199 | 24.6(4-I-3) | 4.1(5-I-2) | -6.9(2) | 0.1(2) | -0.2(2) | -0.0(4-I-3) |
| 200 | 24.5(4-I-3) | 4.0(5-I-2) | -4.7(2) | 0.1(2) | -0.1(2) | -0.0(4-II-1) |
| 204 | 23.7(4-I-3) | 4.1(5-I-4) | -2.7(2) | 0.1(2) | 0.4(4-I-3) | -0.0(4-II-1) |
| 206 | 23.6(4-I-3) | 3.9(5-I-2) | -2.6(2) | 0.1(2) | -0.4(4-II-3) | 0.0(4-I-1) |
| 274 | 23.6(4-I-3) | 3.8(5-I-3) | -2.9(2) | 0.2(2) | 0.4(4-I-3) | -0.0(4-II-1) |
| 282 | 24.5(4-I-3) | 4.1(5-I-4) | -2.0(2) | 0.1(2) | 0.1(2) | -0.0(4-I-3) |
| 283 | 24.5(4-I-3) | 3.8(5-I-3) | -1.5(5-I-3) | 0.2(2) | 0.0(1) | -0.0(4-I-3) |
| 284 | 24.5(4-I-3) | 3.9(5-I-2) | -1.9(2) | 0.1(2) | -0.1(2) | -0.0(4-I-3) |
| 285 | 24.6(4-I-3) | 4.1(5-I-4) | -1.6(5-I-4) | 0.1(2) | 0.1(2) | -0.0(4-I-3) |
| 286 | 24.6(4-I-3) | 3.8(5-I-3) | -1.2(5-I-3) | 0.2(2) | 0.0(1) | -0.0(4-I-3) |
| 287 | 24.6(4-I-3) | 3.9(5-I-2) | -1.5(5-I-2) | 0.1(2) | -0.1(2) | -0.0(4-I-3) |

Tipo diagramma: Deformata
Combinazione corrente : Scenario ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO - C 3



**Risultati Analisi Dinamica - Reazioni massime - Nodi**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

| Nodo | Rx | Ry | Rz | Mx | My | Mz |
|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m |
| 0 | -3.20(4-II-3) | 1.49(5-II-3) | 0 | 0 | 0 | -0.62(4-II-4) |
| 0 | -3.20(4-II-4) | -1.49(5-II-4) | 0 | 0 | 0 | 0.62(4-II-4) |
| 0 | 3.20(4-I-4) | -1.49(5-I-1) | 0 | 0 | 0 | -0.62(4-I-4) |
| 0 | 3.20(4-I-3) | 1.49(5-I-4) | 0 | 0 | 0 | 0.62(4-I-3) |
| 1 | 21.87(4-II-1) | 25.57(5-II-4) | 0 | 0 | 0 | 0.75(4-I-1) |
| 2 | -24.86(4-I-1) | 42.15(2) | 0 | 0 | 0 | -1.09(3) |
| 3 | -21.43(4-I-1) | 24.62(5-II-2) | 0 | 0 | 0 | -0.74(5-II-2) |
| 4 | 21.12(4-II-4) | -29.56(2) | 0 | 0 | 0 | -0.43(2) |
| 5 | 21.16(4-II-3) | -51.02(2) | 0 | 0 | 0 | 0.73(2) |
| 6 | -21.36(4-I-2) | -32.33(2) | 0 | 0 | 0 | 0.63(2) |
| 10 | -0.06(2) | -0.06(2) | 0 | 0 | 0 | 0 |
| 11 | 1.29(2) | -0.18(5-II-4) | 0 | 0 | 0 | -0.03(5-II-4) |
| 12 | -4.26(2) | -0.11(1) | 0 | 0 | 0 | 0.03(1) |
| 13 | -3.06(2) | -0.48(2) | 0 | 0 | 0 | 0.10(2) |
| 14 | 3.75(1) | -0.14(5-I-4) | 0 | 0 | 0 | 0.03(1) |
| 15 | -1.55(2) | -0.32(5-II-2) | 0 | 0 | 0 | 0.05(5-II-2) |
| 16 | 0.08(2) | -0.07(2) | 0 | 0 | 0 | 0 |
| 20 | 0.19(4-I-1) | 1.30(2) | 0 | 0 | 0 | 0.04(4-II-4) |
| 21 | -9.06(2) | 1.52(2) | 0 | 0 | 0 | 0.36(2) |
| 23 | 7.14(2) | 2.37(2) | 0 | 0 | 0 | -0.14(2) |
| 24 | 0.26(4-I-1) | 0.82(4-I-1) | 0 | 0 | 0 | -0.04(4-I-2) |
| 25 | 0.20(4-II-1) | 1.41(2) | 0 | 0 | 0 | 0.04(4-II-1) |
| 26 | 2.58(2) | 3.30(2) | 0 | 0 | 0 | 0.13(2) |
| 27 | -9.44(2) | 3.88(2) | 0 | 0 | 0 | 0.25(1) |
| 28 | -10.56(1) | -3.86(1) | 0 | 0 | 0 | 0.53(1) |
| 29 | -5.31(1) | -8.83(1) | 0 | 0 | 0 | -0.18(1) |
| 30 | 1.69(1) | -10.52(1) | 0 | 0 | 0 | 0.53(1) |
| 31 | 0.36(1) | -1.79(1) | 0 | 0 | 0 | 0.06(4-II-1) |
| 32 | 0.04(1) | -1.02(4-I-3) | 0 | 0 | 0 | 0.01(2) |
| 33 | 1.44(2) | -1.38(5-II-3) | 0 | 0 | 0 | 0.09(2) |
| 34 | -15.61(1) | 8.57(2) | 0 | 0 | 0 | 0.71(1) |
| 35 | -21.63(1) | -16.94(1) | 0 | 0 | 0 | -0.64(1) |
| 36 | -12.28(1) | -23.78(1) | 0 | 0 | 0 | -1.27(1) |
| 37 | 5.26(1) | -17.39(1) | 0 | 0 | 0 | 1.06(1) |
| 38 | 0.30(1) | -3.11(1) | 0 | 0 | 0 | 0.05(1) |
| 39 | 0.04(1) | -1.72(3) | 0 | 0 | 0 | 0.01(2) |
| 40 | 0.96(1) | -2.56(3) | 0 | 0 | 0 | -0.05(5-II-4) |
| 41 | -1.41(1) | 5.56(2) | 0 | 0 | 0 | 0.05(5-II-3) |
| 42 | -0.94(1) | -5.59(1) | 0 | 0 | 0 | 0.02(2) |
| 43 | -10.40(1) | -12.59(1) | 0 | 0 | 0 | 0.66(2) |
| 44 | 8.06(1) | 8.50(2) | 0 | 0 | 0 | -0.39(2) |
| 45 | 0.35(1) | 2.79(2) | 0 | 0 | 0 | 0 |
| 46 | 0.07(2) | -2.22(2) | 0 | 0 | 0 | 0.02(2) |
| 47 | 0.80(1) | -3.37(2) | 0 | 0 | 0 | -0.04(5-II-4) |
| 48 | -1.73(1) | -3.38(1) | 0 | 0 | 0 | 0.14(1) |
| 49 | -1.02(1) | 3.70(1) | 0 | 0 | 0 | 0.06(2) |
| 50 | -7.79(1) | 8.87(2) | 0 | 0 | 0 | 1.05(3) |
| 51 | 6.62(1) | 13.04(3) | 0 | 0 | 0 | -0.65(2) |
| 52 | 0.39(1) | 3.57(3) | 0 | 0 | 0 | -0.02(2) |
| 53 | -0.10(2) | -3.37(2) | 0 | 0 | 0 | 0.03(2) |
| 54 | 0.99(1) | -5.04(2) | 0 | 0 | 0 | -0.10(2) |
| 55 | -20.82(1) | -8.55(1) | 0 | 0 | 0 | 0.81(2) |
| 56 | -26.23(1) | 15.41(1) | 0 | 0 | 0 | 1.65(1) |
| 57 | -9.52(1) | 20.32(1) | 0 | 0 | 0 | 1.52(1) |
| 58 | 4.48(1) | 18.80(1) | 0 | 0 | 0 | -1.22(1) |
| 59 | -0.14(3) | 4.04(1) | 0 | 0 | 0 | -0.06(1) |
| 60 | 0.06(1) | -4.70(2) | 0 | 0 | 0 | 0.07(2) |
| 61 | 1.16(1) | -6.82(2) | 0 | 0 | 0 | -0.08(2) |
| 62 | -5.58(2) | 0.78(5-I-4) | 0 | 0 | 0 | -0.49(1) |
| 63 | -12.51(1) | 6.20(1) | 0 | 0 | 0 | -1.12(1) |
| 64 | 11.87(2) | 12.66(1) | 0 | 0 | 0 | 0.33(1) |
| 65 | -4.41(2) | 12.12(1) | 0 | 0 | 0 | -0.43(1) |
| 66 | 0.42(1) | 2.55(1) | 0 | 0 | 0 | -0.01(2) |
| 67 | 0.21(4-I-3) | -3.19(2) | 0 | 0 | 0 | 0.08(4-II-3) |
| 68 | 1.67(2) | -4.53(2) | 0 | 0 | 0 | -0.12(4-I-1) |
| 69 | 1.98(4-I-3) | -2.03(2) | 0 | 0 | 0 | -0.17(2) |
| 70 | 2.27(4-I-3) | -8.03(2) | 0 | 0 | 0 | 0.36(2) |
| 71 | 14.56(2) | -7.84(2) | 0 | 0 | 0 | -0.22(2) |
| 72 | -3.82(2) | -7.47(2) | 0 | 0 | 0 | 0.27(2) |
| 73 | 0.20(1) | -2.53(4-I-2) | 0 | 0 | 0 | 0.15(4-II-3) |
| 75 | -0.44(2) | 0.11(3) | 0 | 0 | 0 | -0.06(4-II-4) |

| Nodo | Rx | Ry | Rz | Mx | My | Mz |
|---|---|---|---|---|---|---|
| 76 | 2.98(2) | -0.28(2) | 0 | 0 | 0 | 0.02(4-II-3) |
| 77 | 5.18(1) | -0.18(2) | 0 | 0 | 0 | -0.08(2) |
| 78 | 2.42(1) | 0.20(5-I-4) | 0 | 0 | 0 | -0.05(2) |
| 79 | 14.71(2) | -1.91(2) | 0 | 0 | 0 | 0.12(2) |
| 80 | -3.23(2) | -0.72(2) | 0 | 0 | 0 | 0.05(3) |
| 81 | 0.31(4-I-1) | -0.15(2) | 0 | 0 | 0 | 0.02(4-I-1) |

**Risultati Analisi Dinamica - Spostamenti massimi - Impalcati**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

la tripletta (Cb [-SubC-Cbm]) indica la Combinazione - SottoCombinazione sismica - Posizione Masse, nel caso non sismico mancano SubC-Cbm

| Piano | Trasl. X | Trasl. Y | Trasl. Z | Rotaz. X | Rotaz. Y | Rotaz. Z |
|---|---|---|---|---|---|---|
| | mm | mm | mm | ° | ° | ° |
| 1 | 20.0(4-II-1) | 3.6(5-I-3) | -1.8(2-1) | 0.0(1-1) | 0.0(1-1) | -0.0(4-II-3) |
| 2 | 24.3(4-II-3) | 3.8(5-I-3) | -1.4(2-1) | 0.0(1-1) | 0.0(1-1) | -0.0(4-II-3) |

**Risultati Analisi Dinamica - Spostamenti massimi - Impalcati (SLD)**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

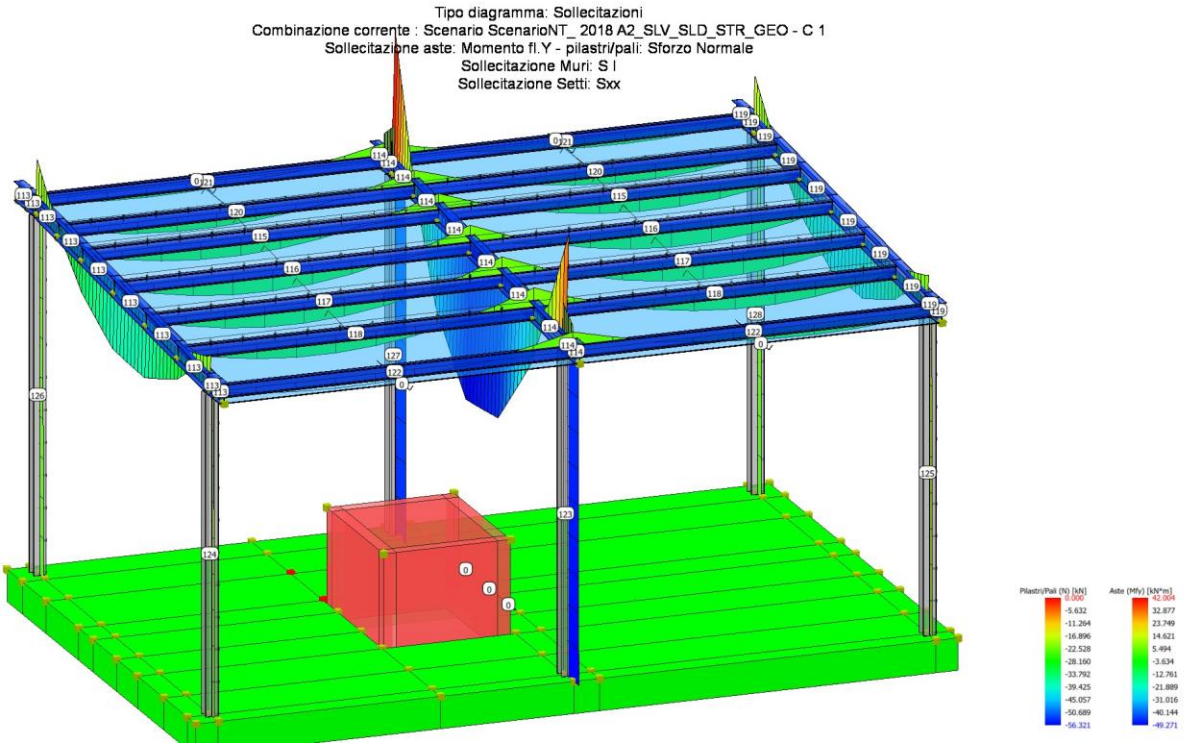
la tripletta (Cb [-SubC-Cbm]) indica la Combinazione - SottoCombinazione sismica - Posizione Masse, nel caso non sismico mancano SubC-Cbm

| Piano | Trasl. X | Trasl. Y | Trasl. Z | Rotaz. X | Rotaz. Y | Rotaz. Z |
|---|---|---|---|---|---|---|
| | mm | mm | mm | ° | ° | ° |
| 1 | 4.5(10-II-1) | 1.4(11-I-3) | -1.5(11-II-1) | 0.0(6-1) | 0.0(6-1) | -0.0(10-II-3) |
| 2 | 5.5(10-II-3) | 1.6(11-I-3) | -1.3(11-I-3) | 0.0(6-1) | 0.0(6-1) | -0.0(10-II-3) |

**Risultati Analisi Dinamica - Sollecitazioni massime - Inviluppi - Travi**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

| Asta | N.in. | N | Ty | Tz | Mt | My | Mz |
|---|---|---|---|---|---|---|---|
| | N.fin. | kN | kN | kN | kN*m | kN*m | kN*m |
| 113 | 0 | 19.27(2) | -0.88(4-II-2) | 15.62(2) | -0.11(4-II-3) | -3.81(5-II-4) | -0.25(2) |
| | 204 | 19.31(2) | -0.88(4-II-2) | 16.16(2) | -0.11(4-II-3) | 14.33(2) | 0.89(4-II-2) |
| 113 | 101 | 18.21(2) | 0.97(4-II-2) | -13.57(2) | 0.08(4-II-1) | 8.66(2) | 1.02(4-II-3) |
| | 188 | 18.27(2) | 0.97(4-II-2) | -12.82(2) | 0.08(4-II-1) | -9.21(2) | -0.30(4-II-1) |
| 113 | 107 | 0 | 4.26(2) | 0.69(2) | 0 | 0 | 0.64(2) |
| | 117 | 0 | 4.26(2) | 0.85(2) | 0 | 0.23(2) | -0.64(2) |
| 113 | 117 | 21.83(2) | 0.38(4-I-1) | 3.62(2) | -0.25(4-II-1) | -3.04(2) | 0.96(4-II-3) |
| | 101 | 21.83(2) | 0.38(4-I-1) | 3.84(2) | -0.25(4-II-1) | -1.94(3) | 1.03(4-II-2) |
| 113 | 188 | 18.51(2) | -0.55(4-I-3) | -7.67(2) | 0.01(3) | -9.26(2) | -0.17(4-I-3) |
| | 189 | 18.56(2) | -0.55(4-I-3) | -6.93(2) | 0.01(3) | -19.14(2) | 0.59(4-I-1) |
| 113 | 189 | 18.67(2) | 0.22(4-II-3) | -1.85(5-II-4) | 0 | -19.19(2) | 0.34(4-I-1) |
| | 190 | 18.73(2) | 0.22(4-II-3) | -1.28(5-II-4) | 0 | -20.34(2) | 0.59(4-I-3) |
| 113 | 190 | 18.84(2) | 0.15(4-I-1) | 5.28(2) | 0 | -20.39(2) | 0.49(4-I-1) |
| | 191 | 18.89(2) | 0.15(4-I-1) | 6.02(2) | 0 | -12.74(2) | 0.31(4-I-3) |
| 113 | 191 | 19.00(2) | 0.54(4-I-1) | 11.05(2) | -0.02(3) | -12.78(2) | 0.33(4-I-4) |
| | 0 | 19.04(2) | 0.54(4-I-1) | 11.61(2) | -0.02(3) | -3.74(5-II-4) | -0.23(4-I-4) |
| 113 | 204 | 22.05(2) | -0.45(4-I-3) | -3.71(2) | 0.26(4-II-3) | -1.90(3) | 0.81(4-II-2) |
| | 282 | 22.05(2) | -0.45(4-I-3) | -3.49(2) | 0.26(4-II-3) | -2.98(3) | 0.75(4-II-1) |
| 113 | 282 | 0 | -5.37(2) | -1.09(2) | 0 | 0.39(2) | -1.07(2) |
| | 285 | 0 | -5.37(2) | -0.87(2) | 0 | 0 | 1.07(2) |
| 114 | 0 | -49.32(2) | -0.81(4-II-1) | 42.78(2) | 0.10(4-I-3) | -3.67(5-II-3) | -0.08(4-I-3) |
| | 274 | -49.28(2) | -0.81(4-II-1) | 43.32(2) | 0.10(4-I-3) | 42.00(2) | -0.87(4-I-1) |
| 114 | 108 | 0 | 0.15(2) | 1.39(2) | 0 | 0 | 0.02(2) |
| | 118 | 0 | 0.15(2) | 1.55(2) | 0 | 0.44(2) | -0.02(2) |
| 114 | 118 | -43.37(2) | 0.18(4-I-1) | 11.80(2) | -0.24(4-II-1) | 6.95(2) | 0.98(4-II-3) |
| | 122 | -43.37(2) | 0.18(4-I-1) | 12.02(2) | -0.24(4-II-1) | 11.66(2) | 1.02(4-II-1) |
| 114 | 122 | -52.64(2) | 1.04(4-II-3) | -37.77(2) | 0.07(4-II-1) | 34.29(2) | 1.02(4-II-3) |
| | 192 | -52.59(2) | 1.04(4-II-3) | -37.03(2) | 0.07(4-II-1) | -16.34(2) | -0.39(4-II-1) |
| 114 | 192 | -51.78(2) | 0.77(4-II-3) | -21.09(2) | 0 | -16.49(2) | 0.32(4-II-3) |
| | 193 | -51.72(2) | 0.77(4-II-3) | -20.35(2) | 0 | -44.54(2) | -0.74(4-II-3) |
| 114 | 193 | -51.21(2) | 0.36(4-II-3) | -3.72(3) | 0 | -44.69(2) | 0.23(4-I-1) |
| | 194 | -51.15(2) | 0.36(4-II-3) | -2.98(3) | 0 | -49.12(2) | -0.67(4-II-3) |
| 114 | 194 | -50.65(2) | 0.13(5-II-2) | 13.71(2) | 0 | -49.27(2) | 0.44(4-I-1) |
| | 195 | -50.59(2) | 0.13(5-II-2) | 14.45(2) | 0 | -30.21(2) | -0.32(4-II-3) |
| 114 | 195 | -50.12(2) | 0.49(4-I-1) | 29.40(2) | 0 | -30.35(2) | 0.34(4-I-1) |
| | 0 | -50.08(2) | 0.49(4-I-1) | 29.96(2) | 0 | -3.52(5-II-3) | -0.17(4-I-1) |
| 114 | 274 | -45.17(2) | -0.30(4-I-3) | -11.50(2) | -0.25(4-I-3) | 12.08(2) | -0.79(4-I-1) |
| | 283 | -45.17(2) | -0.30(4-I-3) | -11.28(2) | -0.25(4-I-3) | 7.53(2) | -0.70(4-I-1) |
| 114 | 283 | 0 | -0.19(2) | -1.98(2) | 0 | 0.75(2) | -0.04(2) |

| Asta | N.in. | N | Ty | Tz | Mt | My | Mz |
|---|---|---|---|---|---|---|---|
| | 286 | 0 | -0.19(2) | -1.76(2) | 0 | 0 | 0.04(2) |
| 115 | 191 | 0.30(2) | 0.27(2) | -5.03(2) | 0 | 0.05(4-I-1) | 0.16(2) |
| | 195 | 0.30(2) | -0.34(2) | 7.43(2) | 0 | 6.73(2) | 0.37(2) |
| 115 | 195 | 0.33(2) | 0.30(2) | -7.52(2) | 0 | 6.74(2) | 0.24(2) |
| | 199 | 0.33(2) | -0.32(2) | 5.15(2) | 0 | 0.05(4-II-1) | 0.32(2) |
| 116 | 190 | -0.05(4-II-2) | 0.31(2) | -5.75(2) | 0 | 0.04(4-I-1) | 0.20(2) |
| | 194 | -0.05(4-II-2) | -0.39(2) | 8.25(2) | 0 | 7.00(2) | 0.41(2) |
| 116 | 194 | -0.04(4-I-4) | 0.34(2) | -8.36(2) | 0 | 7.01(2) | 0.27(2) |
| | 198 | -0.04(4-I-4) | -0.37(2) | 5.89(2) | 0 | 0.04(4-II-1) | 0.37(2) |
| 117 | 189 | 0.10(2) | 0.31(2) | -5.70(2) | 0 | 0.03(4-I-1) | -0.28(4-II-3) |
| | 193 | 0.10(2) | -0.38(2) | 8.29(2) | 0 | 7.25(2) | 0.41(2) |
| 117 | 193 | 0.11(2) | 0.34(2) | -8.40(2) | 0 | 7.26(2) | -0.27(4-II-3) |
| | 197 | 0.11(2) | -0.37(2) | 5.85(2) | 0 | 0.03(4-II-1) | 0.37(2) |
| 118 | 188 | -0.39(2) | 0.14(2) | -5.16(2) | 0 | 0.05(4-II-4) | -0.36(4-II-3) |
| | 192 | -0.45(2) | -0.21(2) | 7.92(2) | 0 | 7.77(2) | 0.35(4-II-3) |
| 118 | 192 | -0.42(2) | 0.16(2) | -8.03(2) | 0 | 7.80(2) | 0.34(4-I-3) |
| | 196 | -0.48(2) | -0.19(2) | 5.28(2) | 0 | 0.05(4-I-2) | -0.35(4-I-3) |
| 119 | 103 | 17.94(2) | -0.96(4-I-4) | -13.75(2) | -0.08(4-I-1) | 8.47(2) | -1.01(4-I-3) |
| | 196 | 17.99(2) | -0.96(4-I-4) | -13.01(2) | -0.08(4-I-1) | -9.64(2) | 0.30(4-I-1) |
| 119 | 109 | 0 | -4.41(2) | 0.70(2) | 0 | 0 | -0.66(2) |
| | 119 | 0 | -4.41(2) | 0.87(2) | 0 | 0.24(2) | 0.66(2) |
| 119 | 119 | 21.44(2) | -0.39(4-II-1) | 3.69(2) | 0.25(4-I-1) | -2.98(2) | -0.94(4-I-3) |
| | 103 | 21.44(2) | -0.39(4-II-1) | 3.91(2) | 0.25(4-I-1) | -1.86(3) | -1.02(4-I-4) |
| 119 | 196 | 18.19(2) | 0.55(4-II-3) | -7.72(2) | -0.01(3) | -9.69(2) | 0.32(2) |
| | 197 | 18.25(2) | 0.55(4-II-3) | -6.98(2) | -0.01(3) | -19.65(2) | -0.59(4-II-1) |
| 119 | 197 | 18.31(2) | 0.28(2) | -1.85(5-II-2) | 0 | -19.69(2) | -0.34(4-II-1) |
| | 198 | 18.36(2) | 0.28(2) | -1.28(5-II-2) | 0 | -20.71(2) | -0.59(4-II-3) |
| 119 | 198 | 18.43(2) | 0.30(2) | 5.52(2) | 0 | -20.76(2) | -0.49(4-II-1) |
| | 199 | 18.48(2) | 0.30(2) | 6.26(2) | 0 | -12.78(2) | -0.32(4-II-3) |
| 119 | 199 | 18.54(2) | -0.54(4-II-1) | 11.43(2) | 0.02(3) | -12.82(2) | -0.34(4-II-2) |
| | 200 | 18.58(2) | -0.54(4-II-1) | 11.98(2) | 0.02(3) | -3.72(5-II-2) | 0.22(4-II-2) |
| 119 | 200 | 18.78(2) | 0.90(4-I-4) | 16.10(2) | 0.11(4-I-3) | -3.79(5-II-2) | 0.26(2) |
| | 206 | 18.82(2) | 0.90(4-I-4) | 16.64(2) | 0.11(4-I-3) | 15.13(2) | -0.91(4-I-4) |
| 119 | 206 | 21.75(2) | 0.55(2) | -3.78(2) | -0.27(4-I-3) | -1.84(3) | -0.82(4-I-4) |
| | 284 | 21.75(2) | 0.55(2) | -3.56(2) | -0.27(4-I-3) | -2.93(3) | -0.77(4-I-1) |
| 119 | 284 | 0 | 5.56(2) | -1.11(2) | 0 | 0.40(2) | 1.11(2) |
| | 287 | 0 | 5.56(2) | -0.89(2) | 0 | 0 | -1.11(2) |
| 120 | 0 | -0.53(2) | 0.12(2) | -6.41(2) | 0 | 6.37(2) | 0.08(2) |
| | 200 | -0.49(2) | -0.15(2) | 4.16(2) | 0 | -0.06(4-II-2) | 0.16(2) |
| 120 | 0 | -0.46(2) | 0.10(2) | -4.06(2) | 0 | -0.06(4-I-4) | -0.05(4-I-1) |
| | 0 | -0.43(2) | -0.16(2) | 6.32(2) | 0 | 6.34(2) | 0.19(2) |
| 121 | 282 | -0.02(2) | 0 | -2.40(2) | 0 | -0.67(2) | -0.01(2) |
| | 283 | 0.02(2) | 0 | 4.62(2) | 0 | 5.54(2) | 0.01(2) |
| 121 | 283 | -0.02(2) | 0 | -4.68(2) | 0 | 5.57(2) | 0.01(2) |
| | 284 | 0.02(2) | 0 | 2.45(2) | 0 | -0.80(2) | -0.01(2) |
| 122 | 117 | 0.03(2) | 0 | -2.77(2) | 0 | -0.53(2) | 0.01(2) |
| | 118 | -0.03(2) | 0 | 5.09(2) | 0 | 5.96(2) | 0 |
| 122 | 118 | 0.02(2) | 0 | -5.16(2) | 0 | 5.99(2) | -0.01(2) |
| | 119 | -0.02(2) | 0 | 2.83(2) | 0 | -0.65(2) | 0.01(2) |




**Risultati Analisi Dinamica - Sollecitazioni massime - Inviluppi - Pilastri**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

| Asta | N.in. | N | Ty | Tz | Mt | My | Mz |
|---|---|---|---|---|---|---|---|
| | N.fin. | kN | kN | kN | kN*m | kN*m | kN*m |
| 123 | 2 | -56.32(2) | -1.32(4-II-1) | -6.34(2) | 0 | 9.30(2) | -6.57(4-II-1) |
| | 122 | -53.57(2) | -1.32(4-II-1) | -6.34(2) | 0 | -22.38(2) | 0.09(3) |
| 124 | 1 | -18.77(2) | -1.32(4-II-4) | -3.05(5-II-4) | 0 | 7.23(5-II-4) | -6.54(4-II-1) |
| | 101 | -16.02(2) | -1.32(4-II-4) | -3.05(5-II-4) | 0 | -10.05(2) | 0.15(3) |
| 125 | 3 | -19.04(2) | 1.32(4-I-2) | -3.09(5-II-2) | 0 | 7.34(5-II-2) | -6.55(4-II-1) |
| | 103 | -16.30(2) | 1.32(4-I-2) | -3.09(5-II-2) | 0 | -9.80(2) | -0.08(4-I-3) |
| 126 | 4 | -24.35(2) | -1.28(3) | 4.02(2) | 0 | -8.57(2) | 6.55(4-I-3) |
| | 204 | -21.30(2) | -1.23(4-II-4) | 4.02(2) | 0 | 13.74(2) | 0.29(4-II-1) |
| 127 | 5 | -53.99(2) | -1.27(3) | 7.26(2) | 0 | -14.69(2) | 6.58(4-I-3) |
| | 274 | -50.94(2) | 1.23(4-I-1) | 7.26(2) | 0 | 25.61(2) | -0.26(4-I-1) |
| 128 | 6 | -24.85(2) | -1.26(3) | 4.26(2) | 0 | -9.24(2) | 6.55(4-I-3) |
| | 206 | -21.80(2) | 1.23(4-I-2) | 4.26(2) | 0 | 14.40(2) | -0.29(4-I-1) |

**Risultati Analisi Dinamica - Sollecitazioni Massime - Muri discretizzati**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| | | MPa | MPa | MPa | kN | kN | kN |
| 1 | 1 | -0.0(5-II-4) | 0.0(4-I-1) | 0.0(4-II-3) | -0.20(5-II-4) | -0.20(4-II-3) | -0.15(4-I-3) |
| 1 | 2 | 0.0(5-II-4) | -0.0(4-II-3) | 0.0(5-II-4) | -0.06(4-I-1) | -0.49(4-II-3) | 0.23(5-II-4) |
| 1 | 3 | -0.0(4-II-3) | 0.0(4-II-1) | 0.0(4-II-3) | 0.41(4-I-3) | 0.04(5-II-4) | -0.31(4-I-4) |
| 1 | 4 | 0.0(5-II-4) | 0.0(4-II-3) | 0.0(4-II-3) | 0.92(5-II-4) | 0.77(4-II-4) | 0.71(4-II-3) |
| 2 | 1 | 0.0(5-II-4) | -0.0(4-II-1) | -0.0(5-II-4) | 0.06(2) | 1.24(4-I-1) | 0.31(5-I-4) |
| 2 | 2 | -0.0(5-II-4) | -0.0(3) | -0.0(1) | -0.04(1) | -1.93(3) | 0.50(2) |
| 2 | 3 | -0.0(2) | -0.1(2) | -0.0(1) | 0.08(2) | -2.54(2) | 0.40(1) |
| 2 | 4 | -0.0(2) | -0.1(2) | -0.0(1) | 0.04(2) | -3.02(2) | 0.38(1) |
| 2 | 5 | -0.0(2) | -0.1(2) | -0.0(1) | 0.05(2) | -3.31(2) | 0.34(1) |
| 2 | 6 | -0.0(2) | -0.1(2) | -0.0(1) | 0.03(2) | -3.39(2) | 0.30(1) |
| 2 | 7 | -0.0(2) | -0.1(2) | 0.0(2) | 0.04(2) | -3.24(2) | -0.33(2) |
| 2 | 8 | -0.0(2) | -0.1(2) | 0.0(2) | 0.10(2) | -2.46(1) | -0.10(1) |
| 2 | 9 | 0.0(5-II-4) | -0.0(4-II-1) | -0.0(5-II-4) | 0.72(5-II-4) | 1.91(4-I-1) | -1.40(5-II-4) |
| 2 | 10 | -0.0(5-II-4) | -0.0(3) | -0.0(1) | -0.40(5-II-4) | -2.03(3) | -1.40(1) |
| 2 | 11 | -0.0(2) | -0.1(2) | -0.0(1) | -0.30(2) | -2.63(2) | -1.40(1) |
| 2 | 12 | -0.0(2) | -0.1(2) | -0.0(1) | -0.27(2) | -3.09(2) | -1.40(1) |

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| 2 | 13 | -0.0(2) | -0.1(2) | -0.0(1) | -0.25(2) | -3.37(2) | -1.42(1) |
| 2 | 14 | -0.0(2) | -0.1(2) | -0.0(1) | -0.23(2) | -3.46(2) | -1.43(1) |
| 2 | 15 | -0.0(2) | -0.1(2) | -0.0(1) | -0.22(2) | -3.29(2) | 1.45(2) |
| 2 | 16 | -0.0(2) | -0.1(2) | 0.0(2) | -0.12(2) | -2.41(1) | 1.40(2) |
| 3 | 1 | -0.0(2) | -0.0(1) | 0.0(2) | -0.05(2) | -2.52(2) | -0.30(2) |
| 3 | 2 | -0.0(2) | -0.0(1) | 0.0(2) | 0.12(2) | -1.05(1) | -1.25(2) |
| 3 | 3 | -0.0(2) | 0.1(2) | 0.0(2) | -0.12(2) | 2.08(2) | -1.65(2) |
| 3 | 4 | 0.0(2) | 0.1(2) | 0.0(2) | 0.10(2) | 6.68(2) | -0.62(2) |
| 3 | 5 | -0.0(1) | -0.0(1) | -0.0(1) | -0.23(2) | -2.53(2) | 1.84(2) |
| 3 | 6 | 0.0(2) | -0.0(1) | -0.0(1) | -0.24(2) | -1.05(1) | 2.87(2) |
| 3 | 7 | -0.0(1) | 0.1(2) | -0.0(1) | -0.35(2) | 2.02(2) | 3.53(2) |
| 3 | 8 | 0.0(2) | 0.1(2) | 0.0(2) | 1.85(2) | 7.06(2) | 3.07(2) |
| 4 | 1 | 0.0(2) | 0.1(2) | -0.0(1) | -0.20(2) | 6.98(2) | -0.39(1) |
| 4 | 2 | 0.0(5-I-4) | 0.1(2) | -0.0(1) | -0.53(2) | 4.64(2) | 0.32(5-I-4) |
| 4 | 3 | 0.0(2) | 0.2(2) | -0.0(1) | 2.59(2) | 7.94(2) | -2.27(1) |
| 4 | 4 | -0.0(5-II-2) | 0.1(2) | -0.0(1) | 0.42(2) | 4.68(2) | -1.84(1) |
| 5 | 1 | -0.0(5-II-3) | 0.1(2) | -0.0(1) | 0.11(2) | 4.62(2) | 0.23(2) |
| 5 | 2 | -0.0(2) | 0.1(2) | -0.0(1) | -0.04(5-I-1) | 2.64(2) | 0.59(2) |
| 5 | 3 | 0.0(5-II-2) | 0.1(1) | -0.0(1) | -0.06(1) | 2.35(1) | 0.38(2) |
| 5 | 4 | 0.0(5-II-3) | 0.1(1) | -0.0(1) | -0.07(1) | 2.10(1) | 0.28(1) |
| 5 | 5 | 0.0(4-II-3) | 0.0(1) | -0.0(1) | -0.08(1) | 1.72(1) | 0.29(1) |
| 5 | 6 | 0.0(4-II-3) | 0.0(1) | 0.0(5-II-2) | -0.09(1) | 1.23(1) | 0.28(1) |
| 5 | 7 | 0.0(5-I-2) | 0.0(4-II-1) | 0.0(2) | -0.09(1) | 0.76(4-II-2) | 0.24(1) |
| 5 | 8 | -0.0(5-II-2) | 0.0(4-II-1) | 0.0(2) | -0.08(5-I-2) | 0.73(4-II-1) | -0.16(2) |
| 5 | 9 | -0.0(5-II-2) | 0.0(4-II-1) | 0.0(2) | -0.12(1) | -1.02(4-I-1) | -0.35(2) |
| 5 | 10 | 0.0(5-II-2) | 0.0(4-II-1) | 0.0(5-II-2) | -0.04(5-I-2) | 1.48(4-II-1) | 0.25(5-II-2) |
| 5 | 11 | -0.0(1) | 0.1(2) | -0.0(1) | -0.21(5-II-3) | 4.45(2) | -1.92(1) |
| 5 | 12 | -0.0(2) | 0.1(2) | -0.0(1) | -0.19(2) | 2.57(2) | -2.05(1) |
| 5 | 13 | -0.0(2) | 0.1(1) | -0.0(1) | -0.09(2) | 2.31(1) | -1.58(1) |
| 5 | 14 | -0.0(2) | 0.1(1) | -0.0(1) | 0.08(5-I-2) | 2.07(1) | -1.20(1) |
| 5 | 15 | -0.0(2) | 0.0(1) | 0.0(5-II-2) | 0.09(5-I-2) | 1.70(1) | -0.85(1) |
| 5 | 16 | 0.0(5-I-2) | 0.0(1) | 0.0(3) | 0.11(5-I-2) | 1.21(1) | 0.74(5-II-2) |
| 5 | 17 | 0.0(5-I-2) | 0.0(4-II-2) | 0.0(2) | 0.12(5-I-2) | 0.78(4-II-2) | 0.94(2) |
| 5 | 18 | 0.0(5-II-2) | 0.0(4-II-1) | 0.0(2) | 0.14(5-I-2) | 0.73(4-II-1) | 1.28(2) |
| 5 | 19 | 0.0(5-I-2) | 0.0(4-II-1) | 0.0(5-II-2) | 0.30(5-I-2) | -0.96(4-I-1) | 1.64(2) |
| 5 | 20 | 0.0(5-II-2) | 0.0(4-II-1) | 0.0(5-II-2) | 0.80(5-II-2) | 2.08(4-II-1) | 1.58(5-II-2) |
| 6 | 1 | -0.0(5-II-4) | -0.0(4-II-1) | -0.0(2) | -1.57(5-II-4) | 1.54(4-I-1) | -0.96(4-II-3) |
| 6 | 2 | -0.0(2) | -0.0(3) | -0.0(1) | -0.39(5-II-4) | -1.66(3) | -0.78(1) |
| 6 | 3 | -0.0(2) | -0.1(2) | -0.0(1) | -0.26(4-II-3) | -2.42(2) | -0.74(1) |
| 6 | 4 | -0.0(2) | -0.1(2) | -0.0(1) | -0.22(4-II-4) | -2.95(2) | -0.77(1) |
| 6 | 5 | -0.0(2) | -0.1(2) | -0.0(1) | -0.18(3) | -3.28(2) | -0.84(1) |
| 6 | 6 | -0.0(2) | -0.1(2) | -0.0(1) | -0.12(3) | -3.40(2) | -0.95(1) |
| 6 | 7 | -0.0(2) | -0.1(2) | -0.0(1) | -0.07(5-II-4) | -3.18(2) | -1.10(1) |
| 6 | 8 | -0.0(2) | -0.1(2) | 0.0(2) | -0.12(2) | -2.33(1) | -1.27(1) |
| 6 | 9 | -0.0(2) | -0.0(3) | -0.0(1) | -2.25(2) | 0.41(4-I-1) | -0.87(1) |
| 6 | 10 | -0.0(2) | -0.0(2) | -0.0(1) | -2.37(2) | -1.49(2) | -1.23(1) |
| 6 | 11 | -0.0(2) | -0.0(2) | -0.0(1) | -2.02(2) | -2.25(2) | -1.27(1) |
| 6 | 12 | -0.0(2) | -0.1(2) | -0.0(1) | -1.81(2) | -2.77(2) | -1.29(1) |
| 6 | 13 | -0.0(2) | -0.1(2) | -0.0(1) | -1.67(2) | -3.12(2) | -1.30(1) |
| 6 | 14 | -0.0(2) | -0.1(2) | 0.0(2) | -1.56(2) | -3.31(2) | -1.35(1) |
| 6 | 15 | -0.0(2) | -0.1(2) | -0.0(1) | -1.43(2) | -3.13(2) | 1.55(2) |
| 6 | 16 | -0.0(2) | -0.1(2) | -0.0(1) | -1.02(2) | -2.41(1) | -1.53(1) |
| 7 | 1 | -0.0(2) | -0.0(1) | 0.0(2) | -0.34(2) | -3.01(2) | -1.65(1) |
| 7 | 2 | -0.0(2) | -0.0(1) | 0.1(2) | -0.14(4-I-1) | -1.25(1) | -2.04(1) |
| 7 | 3 | -0.0(2) | 0.0(2) | 0.1(2) | 0.48(2) | 2.27(2) | -2.16(1) |
| 7 | 4 | -0.0(2) | 0.1(2) | 0.0(2) | -1.24(5-II-3) | 6.70(2) | -1.76(1) |
| 7 | 5 | -0.0(2) | -0.0(1) | -0.0(1) | -1.21(2) | -3.05(2) | 1.86(2) |
| 7 | 6 | -0.0(2) | -0.0(1) | -0.1(1) | -1.39(2) | -1.38(1) | 2.30(2) |
| 7 | 7 | -0.0(2) | 0.0(2) | -0.1(1) | -1.89(2) | 1.69(2) | 2.39(2) |
| 7 | 8 | -0.0(2) | 0.1(2) | -0.1(1) | -1.90(2) | 5.55(2) | -2.06(1) |
| 8 | 1 | -0.0(2) | 0.1(2) | -0.1(1) | -1.71(5-II-3) | 6.13(2) | -2.20(1) |
| 8 | 2 | -0.0(2) | 0.1(2) | -0.1(1) | -0.84(5-II-3) | 4.77(2) | -2.35(1) |
| 8 | 3 | -0.0(2) | 0.1(2) | -0.1(1) | -2.16(2) | 4.81(2) | -2.18(1) |
| 8 | 4 | -0.0(2) | 0.1(2) | -0.1(1) | -1.96(2) | 4.33(2) | -2.17(1) |
| 9 | 1 | -0.0(2) | 0.1(2) | -0.0(1) | -0.71(1) | 4.43(2) | -2.30(1) |
| 9 | 2 | 0.0(5-I-1) | 0.1(2) | -0.0(1) | -1.08(1) | 2.78(2) | -1.79(1) |
| 9 | 3 | 0.0(1) | 0.1(1) | -0.0(1) | -1.30(1) | 2.43(1) | -1.28(1) |
| 9 | 4 | 0.0(1) | 0.1(1) | -0.0(1) | -1.43(1) | 2.15(1) | -0.79(1) |
| 9 | 5 | 0.0(1) | 0.0(1) | -0.0(1) | -1.49(1) | 1.74(1) | 0.67(5-II-2) |
| 9 | 6 | 0.0(1) | 0.0(1) | 0.0(5-II-2) | -1.51(1) | 1.22(1) | 0.83(3) |
| 9 | 7 | 0.0(1) | 0.0(1) | 0.0(2) | -1.48(1) | 0.71(4-II-2) | 1.03(2) |
| 9 | 8 | 0.0(1) | 0.0(4-II-1) | 0.0(2) | -1.37(1) | 0.65(4-II-1) | 1.22(2) |
| 9 | 9 | 0.0(5-I-2) | 0.0(4-II-1) | 0.0(2) | -1.13(1) | -0.88(4-I-1) | 1.35(2) |
| 9 | 10 | 0.0(5-I-2) | 0.0(4-II-1) | 0.0(4-I-3) | -1.40(5-II-2) | 1.49(4-II-1) | 1.58(4-I-3) |
| 9 | 11 | -0.0(2) | 0.1(2) | -0.0(1) | -0.95(2) | 4.45(2) | -2.24(1) |
| 9 | 12 | -0.0(2) | 0.1(2) | -0.0(1) | 1.21(1) | 3.25(1) | -1.90(1) |

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| 9 | 13 | 0.0(5-I-1) | 0.1(1) | -0.0(1) | 1.87(1) | 3.19(1) | -1.50(1) |
| 9 | 14 | 0.0(5-I-2) | 0.1(1) | 0.0(4-I-3) | 2.29(1) | 2.96(1) | -1.08(1) |
| 9 | 15 | 0.0(5-I-2) | 0.1(1) | 0.0(3) | 2.53(1) | 2.57(1) | 0.74(5-II-2) |
| 9 | 16 | 0.0(5-I-2) | 0.0(1) | 0.0(3) | 2.65(1) | 2.05(1) | 0.88(5-II-2) |
| 9 | 17 | 0.0(5-I-2) | 0.0(1) | 0.0(2) | 2.68(1) | 1.44(1) | 1.13(2) |
| 9 | 18 | 0.0(5-I-2) | 0.0(4-II-2) | 0.0(2) | 2.60(1) | 0.83(4-II-1) | 1.45(2) |
| 9 | 19 | 0.0(5-I-2) | 0.0(4-II-2) | 0.0(2) | 2.30(1) | 0.67(4-II-1) | 1.67(2) |
| 9 | 20 | 0.0(5-I-2) | 0.0(4-II-1) | 0.0(2) | 1.48(5-I-2) | 0.58(4-II-1) | 1.37(2) |
| 10 | 1 | -0.0(5-II-4) | 0.0(4-II-1) | -0.0(4-II-1) | -1.38(5-II-4) | 0.07(3) | 0.41(4-I-1) |
| 10 | 2 | -0.1(5-II-4) | 0.0(4-II-4) | 0.0(4-I-1) | -2.04(5-II-4) | 0.55(4-II-1) | -1.04(4-II-1) |
| 10 | 3 | -0.0(2) | -0.0(4-II-1) | -0.0(2) | -2.33(2) | 0.02(5-II-4) | 0.24(2) |
| 10 | 4 | -0.0(2) | -0.0(5-I-4) | -0.0(1) | -2.38(2) | -0.40(4-II-1) | -0.71(2) |
| 11 | 1 | -0.1(2) | -0.0(2) | -0.0(1) | -2.34(2) | -0.18(4-II-3) | -0.60(1) |
| 11 | 2 | -0.1(2) | -0.0(2) | -0.0(1) | -2.04(2) | -1.03(2) | -0.67(1) |
| 11 | 3 | -0.1(2) | -0.0(2) | -0.0(1) | -1.88(2) | -1.72(2) | -0.71(1) |
| 11 | 4 | -0.0(2) | -0.1(2) | -0.0(1) | -1.75(2) | -2.21(2) | 0.80(2) |
| 11 | 5 | -0.0(2) | -0.1(2) | 0.0(2) | -1.58(2) | -2.58(2) | 1.11(2) |
| 11 | 6 | -0.0(2) | -0.1(2) | 0.0(2) | -1.33(2) | -2.82(2) | 1.41(2) |
| 11 | 7 | -0.0(2) | -0.1(2) | 0.0(2) | -0.99(2) | -2.91(2) | 1.57(2) |
| 11 | 8 | -0.0(2) | -0.1(1) | 0.0(2) | -1.01(2) | -2.43(1) | -1.55(1) |
| 11 | 9 | -0.1(2) | -0.0(2) | 0.0(4-I-3) | -2.99(2) | -0.11(2) | -0.51(1) |
| 11 | 10 | -0.1(2) | -0.0(2) | 0.0(3) | -2.97(2) | -0.90(2) | -0.68(1) |
| 11 | 11 | -0.1(2) | -0.0(2) | 0.0(2) | -2.78(2) | -1.46(2) | -0.73(1) |
| 11 | 12 | -0.1(2) | -0.0(2) | 0.0(2) | -2.62(2) | -1.89(2) | 0.78(2) |
| 11 | 13 | -0.1(2) | -0.0(2) | 0.0(2) | -2.53(2) | -2.22(2) | 1.16(2) |
| 11 | 14 | -0.0(2) | -0.1(2) | 0.0(2) | -2.55(2) | -2.51(2) | 1.59(2) |
| 11 | 15 | -0.0(2) | -0.1(2) | 0.0(2) | -2.69(2) | -2.88(2) | 2.00(2) |
| 11 | 16 | -0.1(2) | -0.1(2) | 0.0(2) | -2.55(2) | -3.00(2) | 1.71(2) |
| 12 | 1 | -0.0(2) | 0.1(2) | -0.0(1) | -1.51(2) | 3.77(2) | -2.85(1) |
| 12 | 2 | -0.0(2) | 0.1(2) | -0.0(1) | -1.38(2) | 4.87(2) | -1.35(1) |
| 12 | 3 | 0.0(5-I-4) | 0.1(2) | 0.0(3) | 1.85(5-I-4) | 4.56(2) | -1.34(1) |
| 12 | 4 | 0.0(1) | 0.1(2) | 0.0(3) | 2.86(1) | 4.85(2) | 1.84(3) |
| 13 | 1 | 0.0(1) | 0.1(2) | -0.0(1) | -1.64(2) | 3.91(2) | -2.50(1) |
| 13 | 2 | 0.1(1) | 0.1(1) | -0.0(1) | -2.65(1) | 3.35(1) | -1.91(1) |
| 13 | 3 | 0.1(1) | 0.1(1) | 0.0(5-I-4) | -2.54(1) | 3.28(1) | -1.33(1) |
| 13 | 4 | 0.1(1) | 0.1(1) | 0.0(5-II-2) | -2.48(1) | 2.95(1) | 0.81(5-II-2) |
| 13 | 5 | 0.1(1) | 0.1(1) | 0.0(5-II-2) | -2.41(1) | 2.48(1) | 0.96(3) |
| 13 | 6 | 0.1(1) | 0.1(1) | 0.0(3) | -2.33(1) | 1.93(1) | 1.15(3) |
| 13 | 7 | 0.1(1) | 0.0(1) | 0.0(2) | -2.21(1) | 1.31(1) | 1.35(2) |
| 13 | 8 | 0.1(1) | 0.0(1) | 0.0(2) | -1.97(1) | 0.68(4-II-1) | 1.59(2) |
| 13 | 9 | 0.1(1) | 0.0(1) | 0.0(2) | -1.50(1) | 0.42(4-II-1) | 1.80(2) |
| 13 | 10 | 0.1(1) | 0.0(4-II-1) | 0.0(2) | 1.18(5-I-2) | -0.50(1) | 1.78(2) |
| 13 | 11 | 0.1(1) | 0.1(1) | 0.0(3) | 5.09(1) | 4.09(2) | 1.13(3) |
| 13 | 12 | 0.1(1) | 0.1(1) | 0.0(3) | 8.55(1) | 4.98(1) | 1.22(3) |
| 13 | 13 | 0.1(1) | 0.1(1) | 0.0(3) | 9.85(1) | 5.15(1) | 1.06(3) |
| 13 | 14 | 0.1(1) | 0.1(1) | 0.0(3) | 10.62(1) | 4.94(1) | 1.01(3) |
| 13 | 15 | 0.1(1) | 0.1(1) | 0.0(3) | 11.03(1) | 4.53(1) | 1.01(3) |
| 13 | 16 | 0.1(1) | 0.1(1) | 0.0(3) | 11.18(1) | 3.99(1) | 1.05(3) |
| 13 | 17 | 0.1(1) | 0.1(1) | 0.0(2) | 11.12(1) | 3.36(1) | 1.13(3) |
| 13 | 18 | 0.1(1) | 0.0(1) | 0.0(2) | 10.80(1) | 2.62(1) | 1.28(2) |
| 13 | 19 | 0.1(1) | 0.0(1) | 0.0(2) | 10.17(1) | 1.75(1) | 1.47(2) |
| 13 | 20 | 0.1(1) | 0.0(1) | 0.0(2) | 7.85(1) | 0.29(1) | 1.73(2) |
| 14 | 1 | -0.0(2) | -0.0(1) | -0.0(1) | -1.09(2) | -3.79(1) | -2.51(1) |
| 14 | 2 | -0.0(2) | -0.0(1) | 0.0(2) | -0.82(2) | -1.79(1) | -3.68(1) |
| 14 | 3 | -0.0(2) | 0.0(2) | 0.0(2) | -1.38(2) | 1.49(2) | -4.14(1) |
| 14 | 4 | -0.0(2) | 0.1(2) | -0.0(1) | -1.23(2) | 4.97(2) | -3.12(1) |
| 14 | 5 | -0.0(2) | -0.1(2) | -0.1(1) | -1.77(2) | -4.41(2) | -2.28(1) |
| 14 | 6 | -0.0(2) | -0.0(1) | -0.1(1) | -0.42(1) | -2.17(1) | 1.32(2) |
| 14 | 7 | -0.0(2) | 0.0(2) | -0.1(1) | 0.51(3) | 1.71(2) | -1.21(1) |
| 14 | 8 | 0.0(5-I-4) | 0.1(2) | -0.0(1) | 1.30(1) | 6.08(2) | -1.85(1) |
| 15 | 1 | -0.1(2) | -0.0(2) | -0.0(1) | -2.52(2) | 0.10(4-II-1) | -0.11(1) |
| 15 | 2 | -0.1(2) | -0.0(2) | -0.0(1) | -2.58(2) | -0.24(3) | -0.51(1) |
| 15 | 3 | -0.1(2) | -0.0(4-I-1) | 0.0(4-I-3) | -2.99(2) | 0.03(4-I-3) | 0.14(2) |
| 15 | 4 | -0.1(2) | -0.0(3) | 0.0(4-I-3) | -3.04(2) | -0.18(2) | 0.40(4-I-3) |
| 16 | 1 | -0.1(2) | -0.0(2) | 0.0(3) | -3.17(2) | -0.18(2) | 0.57(3) |
| 16 | 2 | -0.1(2) | -0.0(2) | 0.0(3) | -3.11(2) | -0.77(2) | 0.80(2) |
| 16 | 3 | -0.1(2) | -0.0(2) | 0.0(2) | -2.96(2) | -1.20(2) | 0.95(2) |
| 16 | 4 | -0.1(2) | -0.0(2) | 0.0(2) | -2.89(2) | -1.53(2) | 1.14(2) |
| 16 | 5 | -0.1(2) | -0.0(2) | 0.0(2) | -2.84(2) | -1.76(2) | 1.39(2) |
| 16 | 6 | -0.1(2) | -0.0(2) | 0.0(2) | -2.77(2) | -1.91(2) | 1.73(2) |
| 16 | 7 | -0.1(2) | -0.0(2) | 0.0(2) | -2.26(2) | -1.99(2) | 2.34(2) |
| 16 | 8 | -0.1(2) | -0.0(2) | 0.1(2) | -3.35(2) | -1.86(2) | 2.77(2) |
| 16 | 9 | -0.1(2) | -0.0(2) | 0.0(3) | -3.01(2) | -0.11(2) | 0.65(2) |
| 16 | 10 | -0.1(2) | -0.0(2) | 0.0(2) | -2.84(2) | -0.62(2) | 0.77(3) |
| 16 | 11 | -0.1(2) | -0.0(2) | 0.0(2) | -2.71(2) | -1.01(1) | 0.88(3) |
| 16 | 12 | -0.1(2) | -0.0(2) | 0.0(2) | -2.56(2) | -1.33(1) | 1.08(2) |

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| 16 | 13 | -0.1(2) | -0.0(2) | 0.0(2) | -2.48(2) | -1.50(1) | 1.34(2) |
| 16 | 14 | -0.1(2) | -0.0(2) | 0.0(2) | -2.55(2) | -1.45(1) | 1.67(2) |
| 16 | 15 | -0.1(2) | -0.0(2) | 0.0(2) | -3.37(2) | -1.16(2) | 2.17(2) |
| 16 | 16 | -0.1(2) | -0.0(1) | 0.0(2) | -3.45(2) | 0.47(1) | 1.35(2) |
| 17 | 1 | 0.2(1) | 0.1(2) | 0.1(3) | 5.53(1) | 1.93(2) | 2.01(3) |
| 17 | 2 | 0.2(1) | 0.1(2) | 0.1(3) | 5.29(1) | 3.11(2) | 4.14(3) |
| 17 | 3 | 0.2(1) | 0.0(3) | 0.0(3) | 11.68(1) | -0.70(2) | -0.93(1) |
| 17 | 4 | 0.2(1) | 0.0(1) | 0.0(3) | 12.32(1) | 1.90(1) | 3.48(3) |
| 18 | 1 | 0.2(1) | 0.1(1) | 0.1(3) | 5.26(1) | 2.68(2) | 2.64(3) |
| 18 | 2 | 0.2(1) | 0.1(1) | 0.1(3) | 4.50(1) | 4.32(1) | 1.96(3) |
| 18 | 3 | 0.2(1) | 0.1(1) | 0.0(3) | 5.19(1) | 4.68(1) | 1.64(3) |
| 18 | 4 | 0.2(1) | 0.1(1) | 0.0(3) | 5.56(1) | 4.52(1) | 1.50(3) |
| 18 | 5 | 0.3(1) | 0.1(1) | 0.0(3) | 5.81(1) | 4.14(1) | 1.41(3) |
| 18 | 6 | 0.3(1) | 0.1(1) | 0.0(3) | 5.94(1) | 3.63(1) | 1.36(3) |
| 18 | 7 | 0.3(1) | 0.1(1) | 0.0(3) | 5.98(1) | 3.04(1) | 1.34(3) |
| 18 | 8 | 0.3(1) | 0.1(1) | 0.0(2) | 6.00(1) | 2.40(1) | 1.39(2) |
| 18 | 9 | 0.2(1) | 0.1(1) | 0.0(2) | 6.07(1) | 1.57(1) | 1.46(2) |
| 18 | 10 | 0.2(1) | 0.0(1) | 0.0(2) | 7.42(1) | 0.17(3) | 1.43(1) |
| 18 | 11 | 0.2(1) | 0.1(1) | 0.1(3) | 12.48(1) | 2.04(1) | 2.95(3) |
| 18 | 12 | 0.2(1) | 0.1(1) | 0.1(3) | 14.57(1) | 5.15(1) | 2.89(3) |
| 18 | 13 | 0.2(1) | 0.1(1) | 0.0(3) | 14.88(1) | 5.79(1) | 2.21(3) |
| 18 | 14 | 0.2(1) | 0.1(1) | 0.0(3) | 15.28(1) | 5.77(1) | 1.76(3) |
| 18 | 15 | 0.3(1) | 0.1(1) | 0.0(3) | 15.52(1) | 5.45(1) | 1.43(3) |
| 18 | 16 | 0.3(1) | 0.1(1) | 0.0(3) | 15.60(1) | 4.96(1) | 1.17(3) |
| 18 | 17 | 0.3(1) | 0.1(1) | 0.0(3) | 15.51(1) | 4.36(1) | 0.96(3) |
| 18 | 18 | 0.3(1) | 0.1(1) | 0.0(2) | 15.19(1) | 3.69(1) | 0.79(2) |
| 18 | 19 | 0.3(1) | 0.1(1) | 0.0(2) | 14.68(1) | 2.78(1) | 0.72(2) |
| 18 | 20 | 0.3(1) | 0.0(1) | 0.0(2) | 12.74(1) | 0.58(1) | 0.73(1) |
| 19 | 1 | -0.1(2) | -0.0(2) | 0.0(3) | -3.27(2) | 0.03(1) | -0.05(1) |
| 19 | 2 | -0.1(2) | -0.0(2) | 0.0(3) | -3.32(2) | -0.15(2) | 0.52(3) |
| 19 | 3 | -0.1(2) | -0.0(2) | 0.0(3) | -3.00(2) | 0.05(3) | 0.06(2) |
| 19 | 4 | -0.1(2) | -0.0(2) | 0.0(2) | -3.05(2) | -0.11(1) | 0.66(3) |
| 20 | 1 | -0.1(2) | -0.0(1) | 0.0(2) | -3.31(2) | -0.19(2) | 0.86(2) |
| 20 | 2 | -0.1(2) | -0.0(1) | 0.0(3) | -3.39(2) | -0.64(2) | 1.11(2) |
| 20 | 3 | -0.1(2) | -0.0(1) | 0.0(2) | -3.25(2) | -1.05(1) | 1.16(2) |
| 20 | 4 | -0.1(2) | -0.0(1) | 0.0(2) | -3.20(2) | -1.35(1) | 1.23(2) |
| 20 | 5 | -0.1(2) | -0.0(1) | 0.0(2) | -3.19(2) | -1.47(1) | 1.33(2) |
| 20 | 6 | -0.1(2) | -0.0(1) | 0.0(2) | -3.16(2) | -1.27(1) | 1.49(2) |
| 20 | 7 | -0.1(2) | -0.0(1) | 0.0(2) | -2.81(2) | -0.61(1) | 1.64(2) |
| 20 | 8 | -0.1(2) | -0.0(1) | 0.0(2) | -2.56(2) | 0.29(1) | 1.05(2) |
| 20 | 9 | -0.1(2) | -0.0(1) | 0.0(2) | -2.65(2) | -0.12(1) | 1.00(2) |
| 20 | 10 | -0.1(2) | -0.0(1) | 0.0(2) | -2.36(2) | -0.61(1) | 1.20(2) |
| 20 | 11 | -0.1(2) | -0.0(1) | 0.0(2) | -2.25(2) | -1.03(1) | 1.26(3) |
| 20 | 12 | -0.1(2) | -0.0(1) | 0.0(2) | -2.09(2) | -1.33(1) | 1.35(3) |
| 20 | 13 | -0.1(2) | -0.0(1) | 0.0(2) | -1.96(2) | -1.46(1) | 1.48(3) |
| 20 | 14 | -0.1(2) | -0.0(1) | 0.0(2) | -1.97(2) | -1.27(1) | 1.62(3) |
| 20 | 15 | -0.1(2) | -0.0(1) | 0.0(3) | -2.35(2) | -0.58(1) | 1.70(3) |
| 20 | 16 | -0.1(2) | -0.0(1) | 0.0(3) | -2.47(2) | 0.33(1) | 0.98(3) |
| 21 | 1 | 0.3(1) | 0.0(1) | 0.0(3) | 12.24(1) | -0.57(1) | 0.89(3) |
| 21 | 2 | 0.3(1) | 0.0(1) | 0.0(3) | 12.68(1) | 1.61(1) | 2.20(3) |
| 21 | 3 | 0.3(1) | 0.0(3) | 0.0(3) | 12.22(1) | -0.49(1) | 0.84(2) |
| 21 | 4 | 0.3(1) | 0.0(1) | 0.0(2) | 12.62(1) | 1.75(1) | 1.95(3) |
| 22 | 1 | 0.3(1) | 0.1(1) | 0.1(3) | 12.49(1) | 1.76(1) | 3.43(3) |
| 22 | 2 | 0.3(1) | 0.1(1) | 0.1(3) | 12.62(1) | 4.48(1) | 2.92(3) |
| 22 | 3 | 0.3(1) | 0.1(1) | 0.1(3) | 13.00(1) | 5.41(1) | 2.46(3) |
| 22 | 4 | 0.3(1) | 0.1(1) | 0.0(3) | 13.34(1) | 5.50(1) | 2.07(3) |
| 22 | 5 | 0.3(1) | 0.1(1) | 0.0(3) | 13.58(1) | 5.22(1) | 1.72(3) |
| 22 | 6 | 0.3(1) | 0.1(1) | 0.0(3) | 13.66(1) | 4.76(1) | 1.41(3) |
| 22 | 7 | 0.3(1) | 0.1(1) | 0.0(3) | 13.59(1) | 4.19(1) | 1.12(3) |
| 22 | 8 | 0.3(1) | 0.1(1) | 0.0(2) | 13.36(1) | 3.54(1) | 0.87(3) |
| 22 | 9 | 0.3(1) | 0.1(1) | 0.0(2) | 13.00(1) | 2.64(1) | 0.86(1) |
| 22 | 10 | 0.3(1) | 0.0(1) | 0.0(2) | 12.36(1) | 0.35(3) | 0.45(1) |
| 22 | 11 | 0.3(1) | 0.1(1) | 0.1(3) | 12.27(1) | 1.96(1) | 3.01(2) |
| 22 | 12 | 0.3(1) | 0.1(1) | 0.1(3) | 12.12(1) | 4.46(1) | 3.14(2) |
| 22 | 13 | 0.3(1) | 0.1(1) | 0.1(2) | 12.03(1) | 5.26(1) | 2.73(2) |
| 22 | 14 | 0.3(1) | 0.1(1) | 0.1(2) | 12.11(1) | 5.28(1) | 2.20(3) |
| 22 | 15 | 0.3(1) | 0.1(1) | 0.0(3) | 12.19(1) | 4.98(1) | 1.71(3) |
| 22 | 16 | 0.3(1) | 0.1(1) | 0.0(3) | 12.20(1) | 4.51(1) | 1.26(3) |
| 22 | 17 | 0.3(1) | 0.1(1) | 0.0(3) | 12.11(1) | 3.95(1) | 0.85(3) |
| 22 | 18 | 0.3(1) | 0.1(1) | 0.0(3) | 11.94(1) | 3.30(1) | 0.45(3) |
| 22 | 19 | 0.3(1) | 0.1(1) | 0.0(1) | 11.68(1) | 2.39(1) | -0.39(1) |
| 22 | 20 | 0.3(1) | 0.0(1) | 0.0(3) | 11.54(1) | 0.26(1) | -0.22(2) |
| 23 | 1 | -0.1(2) | -0.0(1) | 0.0(2) | -3.22(2) | -0.04(2) | 0.09(3) |
| 23 | 2 | -0.1(2) | -0.0(1) | 0.0(2) | -3.25(2) | -0.14(2) | 1.19(2) |
| 23 | 3 | -0.1(2) | -0.0(2) | 0.0(2) | -2.22(2) | 0.07(2) | 0.08(3) |
| 23 | 4 | -0.1(2) | -0.0(2) | 0.0(2) | -2.27(2) | -0.09(1) | 1.29(2) |

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| 24 | 1 | -0.1(2) | 0.1(1) | 0.1(2) | 6.25(1) | 4.27(1) | 3.46(2) |
| 24 | 2 | -0.1(2) | 0.1(1) | 0.1(2) | 9.58(1) | 4.91(1) | 3.79(2) |
| 24 | 3 | -0.1(2) | 0.1(1) | 0.1(2) | 10.89(1) | 4.95(1) | 3.34(2) |
| 24 | 4 | -0.1(2) | 0.1(1) | 0.0(2) | 11.59(1) | 4.70(1) | 2.73(2) |
| 24 | 5 | -0.1(2) | 0.1(1) | 0.0(2) | 11.93(1) | 4.28(1) | 2.07(2) |
| 24 | 6 | -0.1(2) | 0.1(1) | 0.0(2) | 11.99(1) | 3.76(1) | 1.42(2) |
| 24 | 7 | -0.1(2) | 0.1(1) | 0.0(3) | 11.81(1) | 3.17(1) | 0.81(3) |
| 24 | 8 | -0.1(2) | 0.0(1) | 0.0(5-II-2) | 11.33(1) | 2.49(1) | 0.34(5-II-2) |
| 24 | 9 | -0.1(2) | -0.0(2) | -0.0(1) | 10.45(1) | 1.68(1) | -0.56(1) |
| 24 | 10 | 0.1(1) | -0.0(2) | 0.0(4-II-1) | 7.93(1) | 0.22(1) | -1.27(1) |
| 24 | 11 | -0.1(2) | 0.1(1) | 0.1(2) | -5.16(2) | 3.41(1) | 3.26(1) |
| 24 | 12 | -0.1(2) | 0.1(1) | 0.1(2) | -6.30(2) | 3.10(1) | 2.98(2) |
| 24 | 13 | -0.1(2) | 0.1(1) | 0.1(2) | -6.93(2) | 2.70(1) | 2.74(2) |
| 24 | 14 | -0.1(2) | 0.1(1) | 0.1(2) | -7.36(2) | 2.24(1) | 2.32(2) |
| 24 | 15 | -0.1(2) | 0.1(1) | 0.0(2) | -7.62(2) | -2.55(2) | 1.80(2) |
| 24 | 16 | -0.1(2) | 0.0(1) | 0.0(2) | -7.73(2) | -2.72(2) | 1.25(2) |
| 24 | 17 | -0.1(2) | -0.0(2) | 0.0(3) | -7.75(2) | -2.69(2) | 0.74(3) |
| 24 | 18 | -0.1(2) | -0.0(2) | 0.0(5-II-2) | -7.65(2) | -2.46(2) | -0.60(1) |
| 24 | 19 | -0.1(2) | -0.0(2) | 0.0(4-II-1) | -7.43(2) | -1.96(2) | -0.94(1) |
| 24 | 20 | -0.1(2) | -0.0(2) | 0.0(1) | -6.53(2) | -0.67(1) | -1.29(1) |
| 25 | 1 | -0.1(2) | -0.0(1) | 0.0(2) | -2.80(2) | -0.27(2) | 1.41(3) |
| 25 | 2 | -0.0(2) | -0.0(1) | 0.0(2) | -2.94(2) | -0.60(2) | 1.72(2) |
| 25 | 3 | -0.0(2) | -0.0(1) | 0.0(3) | -2.70(2) | -0.97(1) | 1.71(2) |
| 25 | 4 | -0.0(2) | -0.0(1) | 0.0(3) | -2.46(2) | -1.35(1) | 1.68(3) |
| 25 | 5 | -0.0(2) | -0.0(1) | 0.0(3) | -2.19(2) | -1.66(1) | 1.65(3) |
| 25 | 6 | 0.0(1) | -0.0(1) | 0.0(3) | 2.17(1) | -1.88(1) | 1.60(3) |
| 25 | 7 | 0.1(1) | -0.0(1) | 0.0(3) | 2.85(1) | -1.96(1) | 1.57(3) |
| 25 | 8 | 0.1(1) | -0.1(1) | 0.0(1) | 3.10(1) | -1.80(1) | 1.69(1) |
| 25 | 9 | -0.1(2) | -0.0(1) | 0.0(2) | -1.74(2) | -0.18(3) | 1.67(2) |
| 25 | 10 | -0.1(2) | -0.0(1) | 0.0(2) | -1.28(2) | -0.49(1) | 2.07(2) |
| 25 | 11 | -0.0(2) | -0.0(1) | 0.0(2) | -1.13(2) | -0.95(1) | 2.12(2) |
| 25 | 12 | -0.0(2) | -0.0(1) | 0.0(2) | -0.96(2) | -1.37(1) | 2.16(3) |
| 25 | 13 | -0.0(2) | -0.0(1) | 0.0(3) | -0.83(2) | -1.75(1) | 2.23(3) |
| 25 | 14 | 0.0(1) | -0.0(1) | 0.0(3) | -0.74(2) | -2.06(1) | 2.32(3) |
| 25 | 15 | 0.0(1) | -0.0(1) | 0.0(1) | 0.86(1) | -2.24(1) | 2.40(3) |
| 25 | 16 | 0.0(1) | -0.1(1) | 0.1(1) | 1.04(1) | -1.79(1) | 2.40(1) |
| 26 | 1 | -0.1(2) | 0.1(1) | 0.1(2) | -4.85(2) | 2.73(1) | 3.61(2) |
| 26 | 2 | -0.1(2) | 0.1(1) | 0.1(2) | -4.83(2) | 5.35(1) | 2.82(2) |
| 26 | 3 | -0.1(2) | 0.1(1) | 0.1(2) | -4.13(2) | 3.06(2) | 3.80(1) |
| 26 | 4 | -0.1(2) | 0.1(1) | 0.1(2) | -4.53(2) | 4.96(1) | 3.47(2) |
| 27 | 1 | 0.0(1) | 0.0(2) | 0.1(1) | 0.98(1) | -4.00(1) | 3.68(1) |
| 27 | 2 | -0.0(2) | 0.0(2) | 0.1(1) | -0.33(1) | -2.00(1) | 2.46(1) |
| 27 | 3 | -0.0(2) | 0.0(2) | 0.1(1) | 0.49(1) | 2.20(2) | 2.81(3) |
| 27 | 4 | -0.1(2) | 0.0(2) | 0.1(2) | -2.31(2) | 5.56(1) | 4.85(2) |
| 27 | 5 | 0.0(1) | 0.0(2) | 0.1(1) | -1.29(2) | -3.52(1) | 3.27(1) |
| 27 | 6 | -0.0(2) | 0.0(2) | 0.1(1) | -1.82(2) | -1.47(1) | 4.52(1) |
| 27 | 7 | -0.0(2) | 0.0(2) | 0.1(3) | -2.60(2) | 2.20(2) | 5.03(1) |
| 27 | 8 | -0.1(2) | 0.1(2) | 0.1(2) | -3.42(2) | 5.10(1) | 4.02(1) |
| 28 | 1 | -0.1(2) | -0.0(1) | 0.0(2) | -3.36(2) | -0.02(4-I-3) | -0.05(5-II-4) |
| 28 | 2 | -0.1(2) | -0.0(1) | 0.0(3) | -3.40(2) | -0.14(2) | 0.93(2) |
| 28 | 3 | -0.1(2) | -0.0(2) | 0.0(2) | -2.66(2) | 0.05(2) | 0.05(2) |
| 28 | 4 | -0.1(2) | -0.0(2) | 0.0(2) | -2.69(2) | -0.11(1) | 1.05(2) |
| 29 | 1 | 0.2(1) | 0.0(1) | 0.0(2) | 11.73(1) | -0.67(2) | 1.24(2) |
| 29 | 2 | 0.3(1) | 0.0(1) | 0.1(2) | 12.47(1) | 2.59(1) | -2.11(1) |
| 29 | 3 | 0.2(1) | 0.1(1) | -0.1(1) | -7.19(2) | 1.17(1) | 2.06(2) |
| 29 | 4 | 0.2(1) | 0.1(1) | 0.0(2) | 6.34(1) | 3.76(1) | -1.98(1) |
| 30 | 1 | 0.2(1) | 0.1(1) | 0.1(2) | 12.07(1) | 3.01(1) | 2.70(2) |
| 30 | 2 | 0.2(1) | 0.1(1) | 0.1(2) | 13.45(1) | 4.89(1) | 2.91(2) |
| 30 | 3 | 0.2(1) | 0.1(1) | 0.1(2) | 13.63(1) | 5.38(1) | 2.83(2) |
| 30 | 4 | 0.2(1) | 0.1(1) | 0.1(2) | 13.98(1) | 5.35(1) | 2.42(2) |
| 30 | 5 | 0.2(1) | 0.1(1) | 0.0(2) | 14.19(1) | 5.04(1) | 1.95(2) |
| 30 | 6 | 0.2(1) | 0.1(1) | 0.0(2) | 14.25(1) | 4.57(1) | 1.46(2) |
| 30 | 7 | 0.2(1) | 0.1(1) | 0.0(3) | 14.16(1) | 4.01(1) | 1.01(3) |
| 30 | 8 | 0.2(1) | 0.1(1) | 0.0(3) | 13.90(1) | 3.37(1) | 0.66(1) |
| 30 | 9 | 0.2(1) | 0.0(1) | 0.0(3) | 13.67(1) | 2.53(1) | 0.61(1) |
| 30 | 10 | 0.2(1) | 0.0(1) | 0.0(3) | 12.16(1) | 0.74(1) | 0.11(5-II-2) |
| 30 | 11 | 0.2(1) | 0.1(1) | 0.1(2) | 6.78(1) | 3.35(1) | 2.66(2) |
| 30 | 12 | 0.2(1) | 0.1(1) | 0.1(2) | 5.98(1) | 4.28(1) | 2.76(2) |
| 30 | 13 | 0.2(1) | 0.1(1) | 0.1(2) | 6.26(1) | 4.52(1) | 2.54(2) |
| 30 | 14 | 0.2(1) | 0.1(1) | 0.1(2) | 6.39(1) | 4.32(1) | 2.14(2) |
| 30 | 15 | 0.2(1) | 0.1(1) | 0.0(2) | 6.50(1) | 3.95(1) | 1.70(2) |
| 30 | 16 | 0.3(1) | 0.1(1) | 0.0(2) | 6.53(1) | 3.47(1) | 1.26(2) |
| 30 | 17 | 0.2(1) | 0.1(1) | 0.0(3) | 6.49(1) | 2.92(1) | 0.85(3) |
| 30 | 18 | 0.2(1) | 0.1(1) | 0.0(3) | 6.45(1) | 2.33(1) | -0.55(1) |
| 30 | 19 | 0.2(1) | 0.0(1) | 0.0(5-II-2) | 6.37(1) | 1.59(1) | -0.64(1) |
| 30 | 20 | 0.2(1) | 0.0(1) | 0.0(4-II-1) | 7.54(1) | -0.41(2) | -0.70(1) |

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| 31 | 1 | -0.1(2) | -0.0(1) | 0.0(2) | -3.01(2) | -0.23(2) | 1.22(2) |
| 31 | 2 | -0.1(2) | -0.0(1) | 0.0(2) | -3.00(2) | -0.62(1) | 1.45(2) |
| 31 | 3 | -0.1(2) | -0.0(1) | 0.0(2) | -2.74(2) | -1.01(1) | 1.41(2) |
| 31 | 4 | -0.1(2) | -0.0(1) | 0.0(3) | -2.62(2) | -1.33(1) | 1.36(2) |
| 31 | 5 | -0.0(2) | -0.0(1) | 0.0(3) | -2.54(2) | -1.51(1) | 1.28(3) |
| 31 | 6 | -0.0(2) | -0.0(1) | 0.0(3) | -2.48(2) | -1.49(1) | 1.17(3) |
| 31 | 7 | 0.1(1) | -0.0(1) | 0.0(3) | -2.23(2) | -1.22(1) | 1.09(3) |
| 31 | 8 | 0.1(1) | -0.0(1) | 0.0(3) | 2.32(1) | 0.41(1) | 0.79(3) |
| 31 | 9 | -0.1(2) | -0.0(1) | 0.0(2) | -2.36(2) | -0.15(1) | 1.29(2) |
| 31 | 10 | -0.1(2) | -0.0(1) | 0.0(2) | -2.11(2) | -0.62(1) | 1.56(2) |
| 31 | 11 | -0.1(2) | -0.0(1) | 0.0(2) | -2.02(2) | -1.03(1) | 1.60(3) |
| 31 | 12 | -0.1(2) | -0.0(1) | 0.0(3) | -1.83(2) | -1.37(1) | 1.70(3) |
| 31 | 13 | -0.0(2) | -0.0(1) | 0.0(3) | -1.62(2) | -1.62(1) | 1.80(3) |
| 31 | 14 | -0.0(2) | -0.0(1) | 0.0(3) | 1.73(1) | -1.72(1) | 1.86(3) |
| 31 | 15 | 0.1(1) | -0.0(1) | 0.0(3) | 2.76(1) | -1.56(1) | 1.89(3) |
| 31 | 16 | 0.1(1) | -0.0(1) | 0.0(3) | 4.92(1) | 1.03(3) | 1.53(3) |
| 32 | 1 | -0.1(2) | -0.0(1) | 0.0(2) | -2.81(2) | -0.04(2) | 0.05(1) |
| 32 | 2 | -0.1(2) | -0.0(1) | 0.0(2) | -2.82(2) | -0.12(1) | 1.56(2) |
| 32 | 3 | -0.1(2) | -0.0(2) | 0.0(2) | -1.84(2) | 0.05(2) | 0.13(1) |
| 32 | 4 | -0.1(2) | -0.0(2) | 0.0(2) | -1.86(2) | -0.08(1) | 1.75(2) |
| 33 | 1 | -0.1(2) | 0.1(1) | 0.1(2) | -4.55(2) | 3.65(1) | 3.29(2) |
| 33 | 2 | -0.1(2) | 0.1(1) | 0.1(2) | -5.41(2) | 3.15(1) | 3.73(2) |
| 33 | 3 | -0.1(2) | 0.1(1) | 0.1(2) | -5.42(2) | 2.67(1) | 3.41(2) |
| 33 | 4 | -0.1(2) | 0.0(1) | 0.0(2) | -5.44(2) | -2.63(2) | 2.81(2) |
| 33 | 5 | -0.1(2) | -0.1(2) | 0.0(2) | -5.48(2) | -3.06(2) | 2.10(2) |
| 33 | 6 | -0.1(2) | -0.1(2) | 0.0(2) | -5.55(2) | -3.23(2) | 1.35(2) |
| 33 | 7 | -0.1(2) | -0.1(2) | 0.0(5-II-2) | -5.69(2) | -3.14(2) | 0.72(5-II-2) |
| 33 | 8 | -0.1(2) | -0.1(2) | 0.0(5-II-2) | -5.89(2) | -2.77(2) | 0.46(5-II-2) |
| 33 | 9 | -0.1(2) | -0.0(2) | 0.0(5-II-2) | -6.24(2) | -1.97(2) | 0.31(4-II-1) |
| 33 | 10 | -0.1(2) | -0.0(2) | 0.0(4-II-1) | -5.71(2) | -0.45(4-I-1) | 0.62(4-II-1) |
| 33 | 11 | -0.1(2) | 0.1(1) | 0.1(2) | -1.47(2) | 3.19(2) | 3.01(1) |
| 33 | 12 | -0.1(2) | 0.1(1) | 0.1(2) | -1.41(1) | 2.42(1) | 2.47(2) |
| 33 | 13 | -0.1(2) | 0.0(1) | 0.1(2) | -1.46(1) | 1.86(1) | 2.08(2) |
| 33 | 14 | -0.1(2) | -0.1(2) | 0.1(2) | -1.52(1) | -2.43(2) | 1.79(2) |
| 33 | 15 | -0.1(2) | -0.1(2) | 0.0(2) | -1.56(1) | -2.94(2) | 1.42(2) |
| 33 | 16 | -0.1(2) | -0.1(2) | 0.0(2) | -1.56(1) | -3.11(2) | 1.01(2) |
| 33 | 17 | -0.1(2) | -0.1(2) | 0.0(5-II-2) | -1.51(1) | -2.96(2) | 0.72(5-II-2) |
| 33 | 18 | -0.1(2) | -0.1(2) | 0.0(5-II-2) | -1.41(1) | -2.45(2) | 0.63(5-II-2) |
| 33 | 19 | -0.1(2) | -0.0(2) | -0.0(2) | -1.32(1) | -1.54(4-I-2) | 0.55(5-II-2) |
| 33 | 20 | -0.1(2) | -0.0(4-I-3) | -0.0(2) | -2.26(2) | -0.62(4-I-2) | -0.64(1) |
| 34 | 1 | -0.0(2) | -0.0(1) | 0.1(1) | -1.25(2) | -1.72(1) | 2.52(1) |
| 34 | 2 | -0.0(2) | 0.0(2) | 0.1(1) | -2.06(2) | 1.62(2) | 2.76(1) |
| 34 | 3 | -0.0(2) | 0.1(2) | 0.1(1) | -3.29(2) | 2.66(2) | 2.95(1) |
| 34 | 4 | -0.1(2) | 0.1(2) | 0.1(1) | -3.93(2) | 3.22(2) | 3.08(1) |
| 34 | 5 | -0.0(2) | 0.0(2) | 0.1(1) | -0.41(2) | -1.48(1) | 2.48(1) |
| 34 | 6 | -0.0(2) | 0.0(2) | 0.1(1) | -0.30(2) | 1.90(2) | 2.96(1) |
| 34 | 7 | -0.0(2) | 0.1(2) | 0.1(1) | -0.58(3) | 3.16(2) | 3.08(1) |
| 34 | 8 | -0.1(2) | 0.1(2) | 0.1(1) | -2.29(2) | 4.29(2) | 2.79(1) |
| 35 | 1 | -0.0(2) | -0.0(1) | 0.0(2) | -2.30(2) | 0.19(4-I-1) | 1.98(2) |
| 35 | 2 | -0.0(2) | -0.0(1) | 0.1(2) | -2.27(2) | -0.49(2) | 2.48(2) |
| 35 | 3 | -0.0(2) | -0.0(1) | 0.1(2) | -1.80(2) | -0.77(1) | 2.38(2) |
| 35 | 4 | -0.0(2) | -0.0(1) | 0.1(3) | -1.49(2) | -1.15(1) | 2.23(2) |
| 35 | 5 | -0.0(2) | -0.0(1) | 0.1(3) | -1.28(2) | -1.47(1) | 2.08(3) |
| 35 | 6 | -0.0(2) | -0.0(1) | 0.1(3) | -1.11(2) | -1.74(1) | 2.03(1) |
| 35 | 7 | -0.0(2) | -0.0(1) | 0.0(3) | -1.04(2) | -1.88(1) | 2.18(1) |
| 35 | 8 | -0.0(2) | -0.0(1) | 0.1(1) | -0.92(2) | -1.72(1) | 2.29(1) |
| 35 | 9 | -0.0(2) | 0.0(4-I-3) | 0.1(2) | -1.35(2) | 0.70(4-I-4) | 2.32(3) |
| 35 | 10 | -0.0(2) | 0.0(4-I-4) | 0.1(2) | 0.57(5-II-4) | 0.80(4-I-4) | 2.63(2) |
| 35 | 11 | -0.0(2) | -0.0(1) | 0.1(2) | 0.33(5-II-4) | -0.74(1) | 2.38(2) |
| 35 | 12 | -0.0(2) | -0.0(1) | 0.1(2) | 0.22(5-II-4) | -1.11(1) | 2.24(2) |
| 35 | 13 | -0.0(2) | -0.0(1) | 0.0(3) | -0.18(2) | -1.41(1) | 2.15(3) |
| 35 | 14 | -0.0(2) | -0.0(1) | 0.0(1) | -0.19(2) | -1.63(1) | 2.08(3) |
| 35 | 15 | -0.0(2) | -0.0(1) | 0.0(1) | -0.20(2) | -1.72(1) | 1.97(3) |
| 35 | 16 | -0.0(2) | -0.0(1) | 0.1(1) | -0.33(2) | -1.59(1) | 2.08(1) |
| 36 | 1 | -0.1(2) | 0.1(2) | 0.1(2) | -4.16(2) | 3.68(2) | 3.12(1) |
| 36 | 2 | -0.1(2) | 0.1(1) | 0.1(2) | -4.38(2) | 3.54(1) | 3.52(2) |
| 36 | 3 | -0.1(2) | 0.1(2) | 0.1(2) | -3.23(2) | 4.74(2) | 3.02(1) |
| 36 | 4 | -0.1(2) | 0.1(2) | 0.1(2) | -2.88(2) | 3.33(1) | 3.80(2) |
| 37 | 1 | -0.0(2) | -0.0(1) | 0.0(2) | -2.59(2) | -0.06(4-I-3) | 0.14(5-I-4) |
| 37 | 2 | -0.0(2) | 0.0(4-I-3) | 0.0(2) | -2.53(2) | -0.13(4-II-3) | 2.00(2) |
| 37 | 3 | -0.1(2) | 0.0(4-I-3) | 0.0(3) | -1.56(2) | 0.11(2) | 0.14(4-II-1) |
| 37 | 4 | -0.1(2) | 0.0(4-I-3) | 0.0(3) | -1.68(2) | 0.39(4-I-3) | 1.90(2) |
| 38 | 1 | -0.0(2) | 0.0(1) | 0.0(2) | 0.36(2) | -1.82(2) | -0.29(2) |
| 38 | 2 | -0.0(2) | -0.1(2) | 0.0(2) | 0.37(2) | -2.78(2) | -0.14(2) |
| 38 | 3 | -0.0(2) | -0.1(2) | 0.0(2) | 0.36(2) | -3.34(2) | -0.11(1) |
| 38 | 4 | -0.0(2) | -0.1(2) | 0.0(2) | 0.38(2) | -3.53(2) | -0.16(1) |

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| 38 | 5 | -0.0(2) | -0.1(2) | 0.0(5-II-2) | 0.37(2) | -3.36(2) | 0.24(3) |
| 38 | 6 | -0.0(2) | -0.1(2) | -0.0(2) | 0.48(2) | -2.81(2) | 0.34(3) |
| 38 | 7 | -0.0(2) | -0.0(4-I-3) | -0.0(2) | 0.39(2) | -2.03(2) | 0.74(2) |
| 38 | 8 | 0.0(2) | -0.0(4-I-2) | -0.0(2) | 0.60(2) | 1.51(4-II-3) | 0.50(2) |
| 38 | 9 | 0.0(2) | -0.1(4-I-2) | -0.1(3) | 1.74(2) | 3.60(3) | -1.86(3) |
| 38 | 10 | -0.1(3) | -0.1(4-I-2) | -0.0(2) | -2.37(3) | 3.24(4-II-3) | -1.91(2) |
| 38 | 11 | -0.1(2) | -0.0(4-I-3) | -0.0(4-I-1) | -3.27(2) | -1.31(4-I-3) | -2.18(2) |
| 38 | 12 | -0.0(2) | -0.0(4-I-2) | 0.0(4-II-1) | -2.29(2) | -2.13(2) | -1.84(2) |
| 38 | 13 | -0.0(2) | -0.1(2) | 0.0(5-II-2) | -1.70(2) | -3.09(2) | -0.67(2) |
| 38 | 14 | -0.0(2) | -0.1(2) | 0.0(5-II-2) | -1.43(2) | -3.58(2) | 0.78(5-II-2) |
| 38 | 15 | -0.0(2) | -0.1(2) | 0.0(2) | -1.39(2) | -3.73(2) | 1.36(2) |
| 38 | 16 | -0.0(2) | -0.1(2) | 0.0(2) | -1.36(2) | -3.53(2) | 2.29(2) |
| 38 | 17 | -0.0(2) | -0.1(2) | 0.0(2) | -1.36(2) | -2.98(2) | 3.20(2) |
| 38 | 18 | -0.0(2) | 0.0(1) | 0.0(2) | -1.41(2) | -2.04(2) | 4.11(2) |
| 38 | 19 | -0.0(2) | 0.1(1) | 0.0(2) | -1.62(2) | 2.07(1) | 5.01(2) |
| 38 | 20 | -0.0(2) | 0.1(1) | 0.1(2) | -1.16(2) | 3.83(2) | 4.47(2) |
| 38 | 21 | -0.0(2) | 0.1(1) | 0.1(2) | 0.52(2) | 4.15(2) | 0.96(1) |
| 38 | 22 | -0.0(2) | 0.1(1) | 0.1(2) | 0.59(2) | 2.06(1) | -0.29(2) |
| 38 | 23 | -0.0(3) | -0.0(4-I-2) | -0.0(2) | -0.55(3) | -1.99(4-I-3) | -1.11(2) |
| 39 | 1 | -0.1(3) | 0.1(4-I-3) | 0.1(3) | -1.46(3) | 10.21(2) | 5.11(3) |
| 39 | 2 | 0.0(2) | 0.1(2) | 0.1(2) | 1.04(2) | 6.77(2) | 1.73(3) |
| 39 | 3 | -0.0(3) | 0.1(2) | 0.1(2) | 0.20(5-II-1) | 2.40(1) | 1.97(2) |
| 39 | 4 | -0.0(3) | 0.1(2) | 0.1(2) | -2.31(2) | 1.28(1) | 5.22(2) |
| 39 | 5 | -0.1(2) | 0.1(2) | 0.1(3) | -3.99(2) | 7.32(2) | 4.67(2) |
| 39 | 6 | 0.1(2) | 0.1(4-I-3) | 0.2(2) | 5.94(2) | 13.38(2) | 6.74(2) |
| 39 | 7 | 0.1(2) | 0.1(4-I-3) | 0.1(2) | 3.84(2) | 8.51(2) | 3.59(2) |
| 39 | 8 | -0.1(3) | 0.1(2) | 0.1(3) | -3.44(3) | 10.00(2) | 5.66(3) |
| 39 | 9 | -0.2(3) | 0.1(2) | 0.1(3) | -5.09(3) | 13.96(2) | 6.12(3) |
| 40 | 1 | 0.0(3) | 0.1(4-II-4) | -0.0(3) | 1.38(2) | 3.09(3) | -1.02(3) |
| 40 | 2 | -0.0(2) | 0.0(2) | 0.0(4-II-3) | -1.56(3) | 1.22(3) | 0.87(4-II-3) |
| 40 | 3 | -0.0(3) | 0.0(4-II-3) | 0.0(4-II-3) | -1.19(3) | -0.34(4-II-3) | 0.44(4-II-3) |
| 40 | 4 | -0.0(3) | 0.0(4-I-3) | -0.0(3) | -0.46(3) | -0.59(2) | 0.26(4-I-1) |
| 40 | 5 | 0.0(5-I-4) | -0.0(3) | -0.0(3) | 0.38(2) | 1.17(4-I-1) | 0.29(4-I-1) |
| 40 | 6 | -0.1(5-I-4) | 0.1(4-II-4) | -0.1(5-I-4) | -2.59(5-I-4) | 7.23(4-II-3) | -3.34(5-I-4) |
| 40 | 7 | -0.0(3) | 0.1(3) | -0.0(3) | -1.64(5-I-4) | 4.48(4-II-3) | -1.41(4-I-3) |
| 40 | 8 | 0.0(3) | 0.0(4-I-3) | 0.0(4-I-4) | 1.73(3) | 1.44(2) | 0.77(5-II-4) |
| 40 | 9 | 0.1(3) | -0.0(4-I-3) | -0.0(3) | 3.75(3) | 3.10(3) | -2.35(3) |
| 41 | 1 | -0.0(2) | 0.0(2) | 0.0(1) | -0.97(2) | 1.59(2) | 2.31(1) |
| 41 | 2 | -0.0(2) | -0.0(1) | 0.0(1) | -0.42(2) | 1.23(5-II-2) | 2.08(1) |
| 41 | 3 | -0.0(2) | -0.0(1) | 0.0(1) | 0.11(1) | 1.25(5-II-2) | 0.94(1) |
| 41 | 4 | -0.0(2) | 0.1(2) | 0.0(1) | 0.37(3) | 1.82(2) | 0.89(1) |
| 41 | 5 | -0.0(2) | 0.1(2) | 0.0(1) | 0.22(5-II-2) | 3.03(2) | 0.88(2) |
| 41 | 6 | 0.0(2) | 0.1(2) | -0.0(2) | 0.74(2) | 5.92(2) | 0.69(2) |
| 41 | 7 | 0.0(2) | 0.1(2) | -0.0(3) | 3.19(2) | 8.07(2) | 1.21(5-II-1) |
| 41 | 8 | -0.1(3) | 0.1(2) | 0.0(4-II-4) | -2.72(3) | 7.40(2) | 1.40(4-II-4) |
| 41 | 9 | -0.1(2) | 0.1(2) | 0.0(1) | -3.41(2) | 5.47(2) | 1.51(1) |
| 41 | 10 | -0.0(2) | 0.1(2) | 0.0(1) | -1.70(2) | 2.64(2) | 1.96(1) |
| 41 | 11 | -0.0(3) | 0.1(2) | 0.0(1) | 0.28(5-II-1) | 3.61(2) | 1.87(1) |
| 42 | 1 | -0.0(2) | 0.0(4-I-3) | 0.0(2) | -0.10(1) | -1.02(2) | 0.35(3) |
| 42 | 2 | -0.0(2) | -0.0(1) | 0.0(2) | -0.08(1) | -1.02(1) | 0.37(3) |
| 42 | 3 | -0.0(2) | -0.0(1) | 0.0(2) | 0.07(2) | -1.29(1) | 0.40(3) |
| 42 | 4 | -0.0(2) | -0.0(1) | 0.0(1) | 0.07(2) | -1.47(1) | 0.44(3) |
| 42 | 5 | -0.0(2) | -0.0(1) | 0.0(1) | -0.08(1) | -1.59(1) | 0.48(2) |
| 42 | 6 | -0.0(2) | -0.0(1) | 0.0(1) | -0.13(1) | -2.05(1) | 0.70(1) |
| 42 | 7 | -0.0(2) | -0.0(1) | 0.0(1) | -0.35(2) | -2.03(1) | 2.07(1) |
| 42 | 8 | -0.0(2) | -0.0(1) | 0.0(1) | -0.38(2) | -1.60(1) | 2.37(1) |
| 42 | 9 | -0.0(2) | -0.0(1) | 0.0(3) | -0.36(2) | -1.47(1) | 2.34(1) |
| 42 | 10 | -0.0(2) | -0.0(1) | 0.0(3) | -0.40(2) | -1.27(1) | 2.36(2) |
| 42 | 11 | -0.0(2) | -0.0(1) | 0.0(3) | -0.45(2) | -1.00(1) | 2.64(2) |
| 42 | 12 | -0.0(2) | 0.0(4-I-4) | 0.0(3) | -0.63(2) | -1.09(2) | 3.05(2) |
| 42 | 13 | -0.0(2) | 0.0(4-I-4) | 0.0(3) | -0.87(2) | -1.00(3) | 3.51(2) |
| 42 | 14 | -0.0(2) | 0.0(4-I-3) | 0.1(3) | -1.98(2) | 1.82(4-I-3) | 3.58(2) |
| 42 | 15 | -0.1(3) | -0.1(4-II-4) | 0.1(3) | -1.40(5-I-4) | 4.26(4-I-3) | 3.85(3) |
| 42 | 16 | 0.0(2) | -0.1(4-II-4) | 0.1(2) | 2.10(2) | 4.34(4-I-3) | 2.22(2) |
| 42 | 17 | 0.0(3) | -0.0(4-II-4) | 0.0(2) | 0.25(2) | 1.89(4-I-3) | -0.33(5-II-4) |
| 42 | 18 | -0.0(2) | 0.0(4-I-3) | 0.0(2) | -0.16(1) | -1.52(3) | -0.28(1) |
| 42 | 19 | -0.0(5-I-4) | 0.0(4-I-4) | 0.0(2) | 0.43(5-II-4) | 1.71(4-I-3) | 2.35(2) |
| 43 | 1 | -0.1(3) | -0.1(4-II-3) | 0.1(3) | -2.02(3) | 3.03(4-I-3) | 1.75(3) |
| 43 | 2 | 0.0(1) | -0.0(4-I-1) | 0.0(5-I-2) | 0.45(2) | 0.81(2) | -0.39(5-II-2) |
| 43 | 3 | -0.0(5-I-2) | 0.0(4-I-1) | 0.0(5-I-2) | 0.32(5-II-2) | -0.49(4-I-1) | 0.26(4-I-1) |
| 43 | 4 | -0.0(2) | -0.0(3) | -0.0(4-I-3) | -2.19(2) | -0.58(4-II-2) | 0.89(3) |
| 43 | 5 | -0.1(2) | 0.0(3) | 0.0(4-II-3) | -3.88(2) | 0.76(3) | -1.03(4-I-3) |
| 43 | 6 | 0.1(2) | 0.1(4-I-2) | 0.1(2) | 2.68(2) | 5.95(4-I-2) | 2.79(5-I-2) |
| 43 | 7 | 0.0(2) | -0.1(4-II-3) | 0.0(3) | 1.64(2) | 3.91(4-I-2) | 1.21(5-I-2) |
| 43 | 8 | -0.1(3) | 0.0(4-I-1) | 0.0(4-II-3) | -3.46(3) | 0.50(5-II-2) | 1.61(4-II-3) |
| 43 | 9 | -0.1(3) | 0.1(4-I-1) | 0.1(3) | -4.63(3) | 2.81(4-I-2) | 2.27(3) |

| Muro | Pann. | Sxx | Syy | Sxy | Mxx | Myy | Mxy |
|---|---|---|---|---|---|---|---|
| 44 | 1 | -0.1(2) | -0.0(4-I-2) | 0.0(4-II-1) | -5.52(2) | -0.28(4-I-3) | -0.52(2) |
| 44 | 2 | -0.1(2) | -0.0(2) | -0.0(2) | -5.62(2) | 0.04(4-I-3) | 0.34(2) |
| 44 | 3 | -0.1(2) | -0.0(4-I-3) | 0.0(4-II-1) | -3.55(2) | -0.38(4-I-3) | -0.77(4-I-1) |
| 44 | 4 | -0.1(2) | 0.0(4-II-3) | -0.0(4-I-2) | -3.51(2) | 0.26(3) | 0.43(3) |
| 45 | 1 | 0.1(1) | -0.0(2) | -0.0(1) | 6.47(1) | -0.33(2) | 0.45(4-II-1) |
| 45 | 2 | 0.1(1) | -0.0(2) | 0.0(4-II-1) | 6.47(1) | 0.18(3) | -0.91(1) |
| 45 | 3 | -0.1(2) | -0.0(2) | -0.0(1) | -6.10(2) | -0.43(2) | 0.56(1) |
| 45 | 4 | -0.1(2) | -0.0(2) | 0.0(1) | -6.04(2) | -0.13(1) | -0.85(1) |
| 46 | 1 | 0.3(1) | 0.0(1) | -0.0(1) | 11.42(1) | 0.57(1) | 0.84(3) |
| 46 | 2 | 0.3(1) | 0.0(1) | 0.0(3) | 11.34(1) | -0.13(1) | -0.47(3) |
| 46 | 3 | 0.2(1) | 0.0(1) | -0.0(1) | 8.47(1) | 0.32(1) | 0.74(3) |
| 46 | 4 | 0.2(1) | 0.0(1) | 0.0(3) | 8.60(1) | -0.27(1) | -0.59(1) |
| 47 | 1 | 0.3(1) | 0.0(1) | 0.0(5-II-2) | 12.31(1) | 0.64(1) | 0.95(2) |
| 47 | 2 | 0.3(1) | 0.0(1) | 0.0(2) | 12.24(1) | -0.24(1) | -0.50(3) |
| 47 | 3 | 0.3(1) | 0.0(1) | 0.0(1) | 11.72(1) | 0.61(1) | 0.89(3) |
| 47 | 4 | 0.3(1) | 0.0(1) | 0.0(3) | 11.64(1) | -0.27(1) | -0.55(2) |
| 48 | 1 | 0.2(1) | 0.0(1) | 0.0(2) | 8.61(1) | 0.43(1) | 0.92(2) |
| 48 | 2 | 0.2(1) | 0.0(1) | 0.0(2) | 8.61(1) | -0.29(1) | 0.72(1) |
| 48 | 3 | 0.3(1) | 0.0(1) | 0.0(1) | 11.68(1) | 0.60(1) | 0.70(2) |
| 48 | 4 | 0.3(1) | 0.0(1) | 0.0(2) | 11.59(1) | -0.21(3) | 0.53(1) |
| 49 | 1 | 0.1(1) | 0.0(1) | 0.0(2) | 2.09(1) | 0.14(4-II-1) | 0.74(2) |
| 49 | 2 | 0.1(1) | 0.0(1) | 0.0(2) | 2.07(1) | -0.12(1) | 0.82(1) |
| 49 | 3 | 0.1(1) | 0.0(4-II-1) | 0.0(2) | 6.41(1) | 0.26(1) | 0.80(2) |
| 49 | 4 | 0.1(1) | 0.0(1) | 0.0(2) | 6.36(1) | -0.03(4-I-3) | 0.87(1) |
| 50 | 1 | -0.0(5-II-2) | 0.0(4-I-2) | 0.0(4-I-1) | -1.57(5-II-2) | 0.67(4-I-1) | 1.19(4-I-1) |
| 50 | 2 | -0.0(5-II-2) | 0.0(4-I-1) | 0.0(4-I-1) | 1.09(5-I-2) | -0.05(4-II-2) | 0.33(4-I-1) |
| 50 | 3 | 0.0(5-I-2) | 0.0(2) | 0.0(4-I-3) | 1.24(5-I-2) | 0.37(4-II-1) | 0.97(4-I-2) |
| 50 | 4 | 0.0(5-I-2) | -0.0(4-I-1) | 0.0(4-I-2) | 1.17(5-I-2) | -0.04(2) | 0.23(5-II-2) |
| 51 | 1 | 0.0(5-II-2) | -0.0(4-I-3) | -0.0(5-II-2) | -0.09(3) | 0.47(4-II-3) | -0.24(5-II-2) |
| 51 | 2 | 0.0(5-I-2) | 0.0(4-II-2) | -0.0(4-I-3) | -0.21(5-II-2) | -0.20(4-I-3) | 0.15(4-II-3) |
| 51 | 3 | 0.0(5-II-2) | 0.0(4-I-3) | 0.0(4-II-3) | 0.97(5-II-2) | 0.88(4-I-2) | -0.56(4-I-3) |
| 51 | 4 | -0.0(4-I-3) | 0.0(4-I-1) | 0.0(4-II-3) | 0.46(4-II-3) | 0.03(5-II-2) | 0.31(4-II-2) |
| 52 | 1 | -0.0(1) | -0.0(1) | 0.0(1) | -0.74(4-I-3) | -0.72(1) | 1.10(1) |
| 52 | 2 | -0.0(1) | -0.0(1) | -0.0(1) | -0.74(4-I-3) | -0.72(1) | -1.10(1) |
| 52 | 3 | -0.0(1) | -0.0(1) | -0.0(1) | -0.74(4-II-3) | -0.72(1) | -1.10(1) |
| 52 | 4 | -0.0(1) | -0.0(1) | 0.0(1) | -0.74(4-II-3) | -0.72(1) | 1.10(1) |
| 53 | 1 | 0.0(1) | -0.1(1) | 0.0(4-II-3) | -0.02(1) | -0.14(1) | -0.02(1) |
| 53 | 2 | -0.0(1) | -0.0(4-II-4) | 0.0(4-II-4) | 0.05(5-II-4) | 0.30(1) | -0.07(1) |
| 53 | 3 | 0.0(1) | -0.1(1) | -0.0(4-I-4) | -0.02(1) | -0.14(1) | 0.02(1) |
| 53 | 4 | -0.0(1) | -0.0(4-I-4) | -0.0(4-I-4) | 0.05(5-I-3) | 0.30(1) | 0.07(1) |
| 54 | 1 | 0.0(1) | -0.1(1) | 0.0(1) | -0.02(1) | -0.12(4-I-3) | -0.01(4-I-4) |
| 54 | 2 | 0.0(5-II-4) | -0.0(5-I-1) | 0.0(5-II-3) | 0.03(5-II-3) | 0.26(1) | -0.07(4-II-1) |
| 54 | 3 | 0.0(1) | -0.1(1) | -0.0(1) | -0.02(1) | -0.12(4-I-3) | 0.01(4-I-4) |
| 54 | 4 | 0.0(5-II-3) | -0.0(5-I-3) | -0.0(5-II-4) | 0.03(5-I-3) | 0.26(1) | 0.07(4-II-1) |
| 55 | 1 | 0.0(1) | -0.1(1) | 0.0(1) | -0.02(1) | -0.12(4-I-1) | -0.01(4-I-1) |
| 55 | 2 | 0.0(5-I-4) | -0.0(5-I-3) | 0.0(5-I-3) | 0.03(5-I-3) | 0.26(1) | -0.07(4-II-1) |
| 55 | 3 | 0.0(1) | -0.1(1) | -0.0(1) | -0.02(1) | -0.12(4-I-1) | 0.01(4-II-4) |
| 55 | 4 | 0.0(5-I-1) | -0.0(5-I-4) | -0.0(5-I-4) | 0.03(5-I-4) | 0.26(1) | 0.07(4-II-1) |
| 56 | 1 | 0.0(1) | -0.1(1) | 0.0(4-I-4) | -0.02(1) | -0.14(1) | -0.02(1) |
| 56 | 2 | -0.0(1) | -0.0(4-I-3) | 0.0(4-I-3) | 0.05(5-I-4) | 0.30(1) | -0.07(1) |
| 56 | 3 | 0.0(1) | -0.1(1) | -0.0(4-II-4) | -0.02(1) | -0.14(1) | 0.02(1) |
| 56 | 4 | -0.0(1) | -0.0(4-II-4) | -0.0(4-II-4) | 0.05(5-II-3) | 0.30(1) | 0.07(1) |

**Verifiche stato limite ultimo**

**Verifica dei Muri in calcestruzzo**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

Simbologia:

| | |
|---|---|
| Muro | Indice del muro in verifica |
| Nodi | [n1-n2-n3-n4...] Indici dei nodi di attacco del muro |
| Pann.X | Numero di pannelli in direzione locale X del muro(per muri a pannelli) |
| Pann.Y | Numero di pannelli in direzione locale Y del muro(per muri a pannelli) |
| Pann | Numero totale di pannelli (per muri a mesh) |
| Spess [mm] | Spessore del muro |
| Criterio | Criterio di verifica adottato per la verifica |
| Pannello | Indice del pannello |
| Nx [kN] | Sforzo in direzione x locale per metro lineare (Nx=sxx*spessore) |
| Ny [kN] | Sforzo in direzione y locale per metro lineare (Ny=syy*spessore) |
| Nxy [kN] | Sforzo tagliante locale per metro lineare (Nxy=sxy*spessore) |
| Mx [kN*m] | Momento in direzione x locale per metro lineare |
| My [kN*m] | Momento in direzione y locale per metro lineare |

| | |
|---|---|
| Mxy [kN*m] | Momento torcente locale per metro lineare |
| Ax [cmq] | Armatura totale pannello in direzione x locale (1) |
| Ay [cmq] | Armatura totale pannello in direzione y locale (1) |
| εc | Deformazione nel cls (2) |
| εf | Deformazione nell'acciaio (2) |
| Massimi | Armature massime riscontrate nel muro |
| Massimo | massima sigma ideale riscontrata nel muro |
| σid+,σid- [MPa] | $(\sigma x^2+\sigma y^2-\sigma x*\sigma y+3*\tau xy^2)^{1/2}$ Tensioni ideali ai lembi della lastra (Acciaio) |
| σid+,σid- [MPa] | $(\sigma x^2+\sigma y^2-\sigma x*\sigma y+3*\tau xy^2)^{1/2}$ Tensioni ideali ai lembi della lastra (Legno) |
| Fatt.Ampl.Sisma | Fattore moltiplicativo di gruppo per le azioni sismiche (solo se diverso da 1.0) |
| Cs | Coefficiente di sicurezza definito dal rapporto \|Mr(N)\|/\|Md\| (Mr(N)=Momento resistente corrispondente allo sforzo normale N,Md=momento agente), quando richiesto dal criterio di verifica |
| $\zeta_E$ | Livello di sicurezza sismico definito come rapporto tra l'accelerazione sopportabile e l'accelerazione di progetto, quando richiesto dal criterio di verifica |

Note Verifica muri:
(1): Le armature Ax ed Ay vanno intese come a metro lineare di pannello.
(2):Le deformazioni sono stampate a meno del fattore $10^{-3}$; esse si riferiscono alla verifica considerando quali sollecitazioni di progetto Mx,d=Mx +/- |Mxy|,My,d=My +/- |Mxy| scegliendo il segno in modo tale da rendere massimo in valore assoluto il relativo momento flettente,le sollecitazioni stampate si riferiscono alle sollecitazioni in una data combinazione riferite al sistema locale del pannello

Muro [Platea]: 1 - Nodi: [10-20-1-11]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=97.378 [(4+5)-VII-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -1.04 | -1.76 | 2.79 | -0.21 | -0.23 | 0.13 | 3142 | 3142 | (4+5)-VII-4 | >100 |
| 2 | 0.90 | -7.67 | 3.31 | 0.02 | -0.58 | 0.24 | 3142 | 3142 | (4+5)-VII-4 | >100 |
| 3 | 6.05 | -0.92 | -3.73 | 0.51 | -0.01 | -0.34 | 3142 | 3142 | (4+5)-VII-1 | >100 |
| 4 | 9.58 | 6.01 | 8.01 | 0.97 | 0.54 | 0.75 | 3142 | 3142 | (4+5)-VIII-4 | >100 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | >100 |

Muro [Platea]: 2 - Nodi: [11-1-21-12]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=36.034 [(4+5)-I-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -0.16 | 11.36 | -2.24 | -0.00 | 1.24 | 0.16 | 3142 | 3142 | (4+5)-III-1 | >100 |
| 2 | -2.00 | -20.14 | -4.72 | 0.00 | -1.87 | 0.50 | 3142 | 3142 | 2 | >100 |
| 3 | -1.20 | -28.23 | -2.24 | 0.08 | -2.54 | 0.33 | 3142 | 3142 | 2 | 92 |
| 4 | -0.88 | -34.16 | 0.19 | 0.04 | -3.02 | 0.17 | 3142 | 3142 | 2 | 83 |
| 5 | -0.61 | -37.76 | 2.55 | 0.05 | -3.31 | 0.02 | 3142 | 3142 | 2 | 80 |
| 6 | -0.53 | -38.73 | 4.71 | 0.03 | -3.39 | -0.17 | 3142 | 3142 | 2 | 74 |
| 7 | -0.41 | -36.86 | 7.07 | 0.04 | -3.24 | -0.33 | 3142 | 3142 | 2 | 74 |
| 8 | 0.26 | -24.62 | -5.60 | -0.06 | -2.46 | -0.10 | 3142 | 3142 | 1 | >100 |
| 9 | 1.35 | 18.96 | -8.84 | 0.34 | 1.97 | -1.18 | 3142 | 3142 | (4+5)-III-2 | 80 |
| 10 | -1.01 | -21.35 | -1.06 | -0.30 | -1.98 | -1.04 | 3142 | 3142 | 2 | 86 |
| 11 | -0.93 | -29.27 | 0.47 | -0.30 | -2.63 | -0.49 | 3142 | 3142 | 2 | 84 |
| 12 | -1.28 | -34.84 | 2.06 | -0.27 | -3.09 | 0.04 | 3142 | 3142 | 2 | 84 |
| 13 | -1.27 | -38.23 | 3.46 | -0.25 | -3.37 | 0.53 | 3142 | 3142 | 2 | 68 |
| 14 | -1.24 | -39.20 | 4.59 | -0.23 | -3.46 | 1.01 | 3142 | 3142 | 2 | 59 |
| 15 | -1.23 | -37.11 | 5.30 | -0.22 | -3.29 | 1.45 | 3142 | 3142 | 2 | 56 |
| 16 | -1.31 | -34.60 | 9.20 | -0.12 | -2.33 | 1.40 | 3142 | 3142 | 2 | 71 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 15 | | | | | | | | | | 56 |

Muro [Platea]: 3 - Nodi: [12-21-2-13]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=56.663 [(4+5)-III-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -1.03 | -19.86 | 8.71 | -0.05 | -2.52 | -0.30 | 3142 | 3142 | 2 | 93 |
| 2 | -1.81 | -1.56 | 13.37 | 0.12 | -0.35 | -1.25 | 3142 | 3142 | 2 | >100 |
| 3 | -4.17 | 28.91 | 16.31 | -0.12 | 2.08 | -1.65 | 3142 | 3142 | 2 | 68 |
| 4 | 9.85 | 63.38 | 14.52 | 0.10 | 6.68 | -0.62 | 3142 | 3142 | 2 | 33 |
| 5 | 0.23 | -20.07 | 8.56 | -0.23 | -2.53 | 1.84 | 3142 | 3142 | 2 | 60 |
| 6 | 1.03 | -2.47 | 4.64 | -0.24 | -0.42 | 2.87 | 3142 | 3142 | 2 | 78 |
| 7 | -0.59 | 28.21 | 3.78 | -0.35 | 2.02 | 3.53 | 3142 | 3142 | 2 | 45 |
| 8 | 9.39 | 67.58 | 14.49 | 1.85 | 7.06 | 3.07 | 3142 | 3142 | 2 | 24 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 8 | | | | | | | | | | 24 |

Muro [Platea]: 4 - Nodi: [13-2-23-14]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=44.305 [(4+5)-I-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 5.13 | 69.10 | -5.56 | -0.20 | 6.98 | -0.03 | 3142 | 3142 | 2 | 35 |
| 2 | 1.02 | 72.29 | -6.78 | -0.53 | 4.64 | 0.29 | 3142 | 3142 | 2 | 49 |
| 3 | 19.95 | 81.44 | -6.70 | 2.59 | 7.94 | -1.39 | 3142 | 3142 | 2 | 26 |
| 4 | 1.23 | 68.16 | -6.03 | 0.42 | 4.68 | -0.79 | 3142 | 3142 | 2 | 45 |

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 3 | | | | | | | | | | 26 |

Muro [Platea]: 5 - Nodi: [14-23-3-15]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=38.195 [(4+5)-I-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -0.99 | 48.71 | -5.17 | 0.11 | 4.62 | 0.23 | 3142 | 3142 | 2 | 51 |
| 2 | -0.31 | 34.48 | -5.46 | 0.01 | 2.64 | 0.59 | 3142 | 3142 | 2 | 78 |
| 3 | 0.08 | 29.25 | -7.38 | -0.06 | 2.35 | 0.30 | 3142 | 3142 | 1 | 95 |
| 4 | 0.19 | 26.07 | -5.66 | -0.07 | 2.10 | 0.28 | 3142 | 3142 | 1 | >100 |
| 5 | 0.18 | 21.57 | -3.97 | -0.08 | 1.72 | 0.29 | 3142 | 3142 | 1 | >100 |
| 6 | 0.17 | 15.76 | -2.34 | -0.09 | 1.23 | 0.28 | 3142 | 3142 | 1 | >100 |
| 7 | 0.10 | 9.18 | -0.71 | -0.09 | 0.67 | 0.24 | 3142 | 3142 | 1 | >100 |
| 8 | 0.34 | 9.60 | 3.12 | -0.04 | 0.76 | -0.12 | 3142 | 3142 | (4+5)-I-3 | >100 |
| 9 | -1.14 | 12.43 | 4.97 | -0.08 | 0.93 | -0.26 | 3142 | 3142 | (4+5)-III-4 | >100 |
| 10 | 2.78 | 13.84 | 5.94 | -0.02 | 1.48 | 0.07 | 3142 | 3142 | (4+5)-I-4 | >100 |
| 11 | -1.06 | 46.85 | -4.03 | -0.14 | 4.45 | -1.06 | 3142 | 3142 | 2 | 45 |
| 12 | -0.80 | 31.11 | -8.29 | -0.08 | 2.42 | -2.05 | 3142 | 3142 | 1 | 56 |
| 13 | -0.61 | 28.54 | -6.62 | 0.00 | 2.31 | -1.58 | 3142 | 3142 | 1 | 65 |
| 14 | -0.43 | 25.43 | -4.39 | 0.04 | 2.07 | -1.20 | 3142 | 3142 | 1 | 77 |
| 15 | -0.32 | 20.96 | -2.26 | 0.06 | 1.70 | -0.85 | 3142 | 3142 | 1 | 99 |
| 16 | -0.17 | 15.20 | -0.26 | 0.07 | 1.21 | -0.51 | 3142 | 3142 | 1 | >100 |
| 17 | 0.22 | 8.98 | 4.04 | 0.07 | 0.73 | 0.80 | 3142 | 3142 | (4+5)-I-4 | >100 |
| 18 | 0.58 | 8.83 | 3.76 | 0.05 | 0.69 | 0.90 | 3142 | 3142 | (4+5)-V-4 | >100 |
| 19 | 0.41 | -11.59 | 6.92 | 0.04 | -0.99 | 1.09 | 3142 | 3142 | (4+5)-V-2 | >100 |
| 20 | 1.79 | 21.48 | 10.63 | 0.48 | 2.13 | 1.34 | 3142 | 3142 | (4+5)-I-4 | 73 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 11 | | | | | | | | | | 45 |

Muro [Platea]: 6 - Nodi: [1-26-27-21]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=45.870 [(4+5)-III-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -21.56 | -9.20 | -15.05 | -1.64 | -0.46 | -1.09 | 3142 | 3142 | (4+5)-VIII-4 | 96 |
| 2 | -5.53 | -19.22 | -7.51 | -0.34 | -1.59 | -0.49 | 3142 | 3142 | (4+5)-VII-4 | >100 |
| 3 | -10.19 | -27.42 | -3.06 | -0.14 | -2.42 | 0.12 | 3142 | 3142 | 2 | >100 |
| 4 | -9.22 | -32.61 | 1.91 | -0.18 | -2.95 | 0.41 | 3142 | 3142 | 2 | 79 |
| 5 | -8.49 | -36.00 | 6.75 | -0.17 | -3.28 | 0.63 | 3142 | 3142 | 2 | 68 |
| 6 | -7.73 | -37.29 | 11.24 | -0.12 | -3.40 | 0.79 | 3142 | 3142 | 2 | 63 |
| 7 | -7.02 | -36.50 | 15.01 | -0.04 | -3.18 | 0.93 | 3142 | 3142 | 2 | 64 |
| 8 | 1.99 | -24.88 | -16.12 | 0.01 | -2.33 | -1.27 | 3142 | 3142 | 1 | 73 |
| 9 | -21.28 | -9.18 | -4.69 | -2.25 | -0.06 | -0.46 | 3142 | 3142 | 2 | 97 |
| 10 | -16.74 | -16.48 | -0.20 | -2.37 | -1.49 | -0.63 | 3142 | 3142 | 2 | 87 |
| 11 | -14.98 | -23.20 | 3.71 | -2.02 | -2.25 | -0.18 | 3142 | 3142 | 2 | >100 |
| 12 | -13.72 | -28.64 | 6.96 | -1.81 | -2.77 | 0.29 | 3142 | 3142 | 2 | 86 |
| 13 | -12.50 | -32.44 | 9.72 | -1.67 | -3.12 | 0.77 | 3142 | 3142 | 2 | 68 |
| 14 | -11.28 | -34.38 | 11.85 | -1.56 | -3.31 | 1.20 | 3142 | 3142 | 2 | 59 |
| 15 | -9.91 | -34.03 | 13.75 | -1.43 | -3.13 | 1.55 | 3142 | 3142 | 2 | 56 |
| 16 | 5.05 | -26.16 | -18.10 | 0.51 | -2.41 | -1.53 | 3142 | 3142 | 1 | 67 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 15 | | | | | | | | | | 56 |

Muro [Platea]: 7 - Nodi: [21-27-28-2]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=69.122 [(4+5)-II-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -5.66 | -14.93 | 19.78 | -0.34 | -3.01 | 1.17 | 3142 | 3142 | 2 | 62 |
| 2 | -1.06 | -9.88 | -16.29 | -0.02 | -1.25 | -2.04 | 3142 | 3142 | 1 | 79 |
| 3 | -9.07 | 23.11 | 26.04 | 0.48 | 2.27 | 0.79 | 3142 | 3142 | 2 | 82 |
| 4 | -20.54 | 52.44 | 23.42 | -0.61 | 6.70 | 0.58 | 3142 | 3142 | 2 | 34 |
| 5 | -7.68 | -15.13 | 12.83 | -1.21 | -3.05 | 1.86 | 3142 | 3142 | 2 | 53 |
| 6 | -6.84 | 0.03 | 7.99 | -1.39 | -0.71 | 2.30 | 3142 | 3142 | 2 | 70 |
| 7 | -8.35 | 20.47 | 5.58 | -1.89 | 1.69 | 2.39 | 3142 | 3142 | 2 | 60 |
| 8 | -16.26 | 41.05 | 6.50 | -1.90 | 5.55 | 1.15 | 3142 | 3142 | 2 | 37 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 34 |

Muro [Platea]: 8 - Nodi: [2-28-29-23]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=52.504 [(4+5)-IV-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -22.16 | 67.61 | -12.57 | -1.34 | 6.13 | -0.48 | 3142 | 3142 | 2 | 37 |
| 2 | -11.32 | 61.74 | -8.11 | -0.49 | 4.77 | -1.34 | 3142 | 3142 | 2 | 40 |
| 3 | -20.71 | 57.34 | -0.93 | -2.16 | 4.81 | 0.35 | 3142 | 3142 | 2 | 48 |
| 4 | -8.96 | 35.35 | -25.29 | -0.80 | 3.13 | -2.17 | 3142 | 3142 | 1 | 47 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 1 | | | | | | | | | | 37 |

Muro [Platea]: 9 - Nodi: [23-29-30-3]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=51.590 [(4+5)-VI-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -6.61 | 45.16 | -9.81 | -0.41 | 4.43 | -0.82 | 3142 | 3142 | 2 | 47 |
| 2 | 2.45 | 32.49 | -19.60 | -1.08 | 2.63 | -1.79 | 3142 | 3142 | 1 | 57 |
| 3 | 5.34 | 30.54 | -15.66 | -1.30 | 2.43 | -1.28 | 3142 | 3142 | 1 | 68 |
| 4 | 7.10 | 27.54 | -11.79 | -1.43 | 2.15 | -0.79 | 3142 | 3142 | 1 | 86 |
| 5 | 8.14 | 23.20 | -7.97 | -1.49 | 1.74 | -0.34 | 3142 | 3142 | 1 | >100 |
| 6 | 4.68 | 8.54 | 7.98 | -0.94 | 0.44 | 0.83 | 3142 | 3142 | 3 | >100 |
| 7 | 3.99 | 2.71 | 10.83 | -0.91 | -0.09 | 1.03 | 3142 | 3142 | 2 | >100 |
| 8 | 8.59 | 5.68 | 2.73 | -1.37 | 0.05 | 0.65 | 3142 | 3142 | 1 | >100 |
| 9 | 3.94 | -8.31 | 12.95 | -0.70 | -0.90 | 1.28 | 3142 | 3142 | (4+5)-V-2 | >100 |
| 10 | -12.61 | -4.06 | 18.15 | -1.48 | -0.41 | 1.70 | 3142 | 3142 | (4+5)-VI-2 | 82 |
| 11 | -5.10 | 37.47 | -21.88 | 0.12 | 3.32 | -2.24 | 3142 | 3142 | 1 | 45 |
| 12 | -1.24 | 35.89 | -18.05 | 1.21 | 3.25 | -1.90 | 3142 | 3142 | 1 | 49 |
| 13 | 1.25 | 34.21 | -13.45 | 1.87 | 3.19 | -1.50 | 3142 | 3142 | 1 | 53 |
| 14 | 2.89 | 31.08 | -8.26 | 2.29 | 2.96 | -1.08 | 3142 | 3142 | 1 | 62 |
| 15 | 4.10 | 26.57 | -3.25 | 2.53 | 2.57 | -0.69 | 3142 | 3142 | 1 | 77 |
| 16 | 4.95 | 20.89 | 1.35 | 2.65 | 2.05 | -0.31 | 3142 | 3142 | 1 | 86 |
| 17 | 5.67 | 14.50 | 5.30 | 2.68 | 1.44 | 0.07 | 3142 | 3142 | 1 | 93 |
| 18 | 6.59 | 8.13 | 8.06 | 2.60 | 0.79 | 0.43 | 3142 | 3142 | 1 | 84 |
| 19 | 7.13 | 2.78 | 8.37 | 2.30 | 0.20 | 0.68 | 3142 | 3142 | 1 | 86 |
| 20 | 13.97 | -0.93 | 5.98 | 1.46 | 0.10 | 0.76 | 3142 | 3142 | (4+5)-II-1 | >100 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 11 | | | | | | | | | | 45 |

Muro [Platea]: 10 - Nodi: [20-25-26-1]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=41.955 [(4+5)-IV-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -16.80 | -0.46 | 1.97 | -1.35 | 0.03 | 0.22 | 3142 | 3142 | (4+5)-IV-2 | >100 |
| 2 | -25.11 | 0.20 | 6.53 | -2.07 | -0.04 | 0.49 | 3142 | 3142 | (4+5)-IV-2 | >100 |
| 3 | -22.68 | -2.39 | -3.03 | -2.33 | -0.02 | 0.24 | 3142 | 3142 | 2 | >100 |
| 4 | -23.29 | 0.14 | -1.93 | -2.38 | -0.28 | -0.71 | 3142 | 3142 | 2 | 85 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 85 |

Muro [Platea]: 11 - Nodi: [26-33-34-27]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=144.289 [(4+5)-VIII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -30.74 | -7.90 | -1.69 | -2.34 | -0.16 | 0.05 | 3142 | 3142 | 2 | >100 |
| 2 | -28.63 | -14.01 | -0.15 | -2.04 | -1.03 | 0.23 | 3142 | 3142 | 2 | >100 |
| 3 | -25.89 | -20.10 | 2.97 | -1.88 | -1.72 | 0.51 | 3142 | 3142 | 2 | >100 |
| 4 | -23.77 | -25.21 | 6.92 | -1.75 | -2.21 | 0.80 | 3142 | 3142 | 2 | 87 |
| 5 | -22.22 | -29.13 | 11.13 | -1.58 | -2.58 | 1.11 | 3142 | 3142 | 2 | 71 |
| 6 | -21.22 | -31.85 | 14.95 | -1.33 | -2.82 | 1.41 | 3142 | 3142 | 2 | 62 |
| 7 | -21.21 | -33.36 | 17.50 | -0.99 | -2.91 | 1.57 | 3142 | 3142 | 2 | 59 |
| 8 | 13.21 | -33.43 | -18.93 | 0.87 | -2.43 | -1.55 | 3142 | 3142 | 1 | 66 |
| 9 | -34.58 | -6.27 | 3.88 | -2.99 | -0.11 | 0.28 | 3142 | 3142 | 2 | 81 |
| 10 | -31.80 | -11.24 | 7.00 | -2.97 | -0.90 | 0.27 | 3142 | 3142 | 2 | 81 |
| 11 | -29.83 | -16.37 | 9.55 | -2.78 | -1.46 | 0.47 | 3142 | 3142 | 2 | 81 |
| 12 | -28.22 | -20.79 | 12.36 | -2.62 | -1.89 | 0.78 | 3142 | 3142 | 2 | 77 |
| 13 | -26.69 | -24.45 | 15.46 | -2.53 | -2.22 | 1.16 | 3142 | 3142 | 2 | 71 |
| 14 | -24.77 | -27.75 | 18.62 | -2.55 | -2.51 | 1.59 | 3142 | 3142 | 2 | 63 |
| 15 | -22.27 | -31.31 | 20.83 | -2.69 | -2.88 | 2.00 | 3142 | 3142 | 2 | 54 |
| 16 | -25.35 | -36.67 | 21.44 | -2.55 | -3.00 | 1.71 | 3142 | 3142 | 2 | 56 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 15 | | | | | | | | | | 54 |

Muro [Platea]: 12 - Nodi: [28-35-36-29]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=87.931 [(4+5)-VIII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 0.57 | 40.70 | -20.39 | -0.89 | 2.09 | -2.85 | 3142 | 3142 | 1 | 50 |
| 2 | 0.68 | 38.54 | -24.00 | -0.58 | 4.32 | -1.35 | 3142 | 3142 | 1 | 44 |
| 3 | 3.62 | 56.76 | 11.63 | 0.78 | 4.56 | 0.35 | 3142 | 3142 | 2 | 50 |
| 4 | 2.03 | 54.59 | 12.85 | 0.77 | 4.85 | 1.77 | 3142 | 3142 | 2 | 37 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 37 |

Muro [Platea]: 13 - Nodi: [29-36-37-30]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=67.530 [(4+5)-VI-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 15.92 | 47.44 | -10.87 | -1.52 | 2.65 | -2.50 | 3142 | 3142 | 1 | 48 |
| 2 | 34.73 | 45.38 | -11.12 | -2.65 | 3.35 | -1.91 | 3142 | 3142 | 1 | 47 |
| 3 | 44.22 | 43.32 | -9.41 | -2.54 | 3.28 | -1.33 | 3142 | 3142 | 1 | 54 |
| 4 | 49.89 | 40.59 | -7.32 | -2.48 | 2.95 | -0.75 | 3142 | 3142 | 1 | 67 |
| 5 | 53.11 | 36.37 | -4.68 | -2.41 | 2.48 | -0.23 | 3142 | 3142 | 1 | 92 |
| 6 | 54.68 | 30.85 | -1.69 | -2.33 | 1.93 | 0.25 | 3142 | 3142 | 1 | 95 |
| 7 | 55.00 | 24.46 | 1.47 | -2.21 | 1.31 | 0.70 | 3142 | 3142 | 1 | 85 |
| 8 | 54.07 | 17.75 | 4.44 | -1.97 | 0.66 | 1.10 | 3142 | 3142 | 1 | 80 |
| 9 | 51.54 | 11.60 | 6.11 | -1.50 | -0.03 | 1.36 | 3142 | 3142 | 1 | 86 |
| 10 | 26.30 | 1.91 | 6.49 | 1.14 | -0.13 | 1.12 | 3142 | 3142 | (4+5)-II-1 | >100 |

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 30.15 | 51.25 | -0.89 | 5.09 | 3.41 | -0.92 | 3142 | 3142 | 1 | 42 |
| 12 | 35.12 | 46.50 | -8.70 | 8.55 | 4.98 | -0.44 | 3142 | 3142 | 1 | 28 |
| 13 | 42.11 | 46.20 | -7.72 | 9.85 | 5.15 | -0.50 | 3142 | 3142 | 1 | 24 |
| 14 | 46.55 | 44.12 | -3.98 | 10.62 | 4.94 | -0.39 | 3142 | 3142 | 1 | 23 |
| 15 | 49.38 | 40.20 | 0.32 | 11.03 | 4.53 | -0.22 | 3142 | 3142 | 1 | 22 |
| 16 | 50.91 | 34.75 | 4.59 | 11.18 | 3.99 | -0.00 | 3142 | 3142 | 1 | 22 |
| 17 | 51.53 | 28.22 | 8.55 | 11.12 | 3.36 | 0.26 | 3142 | 3142 | 1 | 22 |
| 18 | 51.87 | 20.96 | 11.73 | 10.80 | 2.62 | 0.57 | 3142 | 3142 | 1 | 22 |
| 19 | 53.06 | 13.29 | 12.59 | 10.17 | 1.75 | 0.87 | 3142 | 3142 | 1 | 22 |
| 20 | 61.24 | 9.42 | 4.77 | 7.85 | 0.29 | 1.47 | 3142 | 3142 | 1 | 26 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 17 | | | | | | | | | | 22 |

Muro [Platea]: 14 - Nodi: [27-34-35-28]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=190.175 [(4+5)-VIII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 7.12 | -18.85 | -21.56 | 0.46 | -3.79 | -2.51 | 3142 | 3142 | 1 | 41 |
| 2 | -0.46 | -9.77 | -18.67 | 0.06 | -1.79 | -3.68 | 3142 | 3142 | 1 | 47 |
| 3 | -0.70 | 3.45 | -16.74 | -0.66 | 0.10 | -4.14 | 3142 | 3142 | 1 | 54 |
| 4 | -2.28 | 13.25 | -23.28 | -0.36 | 4.39 | -3.12 | 3142 | 3142 | 1 | 34 |
| 5 | 11.70 | -23.19 | -26.83 | 0.53 | -4.30 | -2.28 | 3142 | 3142 | 1 | 40 |
| 6 | -0.92 | -14.22 | -29.11 | -0.42 | -2.17 | -1.26 | 3142 | 3142 | 1 | 76 |
| 7 | -4.70 | 17.77 | -3.97 | 0.51 | 1.71 | 1.04 | 3142 | 3142 | 2 | 92 |
| 8 | 3.50 | 16.98 | -23.65 | 1.30 | 4.88 | -1.85 | 3142 | 3142 | 1 | 38 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 34 |

Muro [Platea]: 15 - Nodi: [25-32-33-26]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=120.883 [(4+5)-VIII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -31.10 | -0.55 | -0.72 | -2.52 | 0.09 | 0.03 | 3142 | 3142 | 2 | >100 |
| 2 | -31.59 | -1.41 | -0.73 | -2.58 | -0.23 | -0.14 | 3142 | 3142 | 2 | 97 |
| 3 | -35.27 | -0.23 | 0.71 | -2.99 | 0.01 | 0.14 | 3142 | 3142 | 2 | 84 |
| 4 | -35.62 | -1.56 | 2.62 | -3.04 | -0.18 | 0.14 | 3142 | 3142 | 2 | 83 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 83 |

Muro [Platea]: 16 - Nodi: [33-40-41-34]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=253.443 [(4+5)-VIII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -36.86 | -5.03 | 6.12 | -3.17 | -0.18 | 0.57 | 3142 | 3142 | 2 | 71 |
| 2 | -34.77 | -9.23 | 7.36 | -3.11 | -0.77 | 0.80 | 3142 | 3142 | 2 | 68 |
| 3 | -32.88 | -13.58 | 9.53 | -2.96 | -1.20 | 0.95 | 3142 | 3142 | 2 | 67 |
| 4 | -31.25 | -17.17 | 12.34 | -2.89 | -1.53 | 1.14 | 3142 | 3142 | 2 | 65 |
| 5 | -30.13 | -19.88 | 15.82 | -2.84 | -1.76 | 1.39 | 3142 | 3142 | 2 | 62 |
| 6 | -29.86 | -21.79 | 20.01 | -2.77 | -1.91 | 1.73 | 3142 | 3142 | 2 | 59 |
| 7 | -32.48 | -23.18 | 24.82 | -2.26 | -1.99 | 2.34 | 3142 | 3142 | 2 | 57 |
| 8 | -46.38 | -23.83 | 30.34 | -3.35 | -1.86 | 2.77 | 3142 | 3142 | 2 | 44 |
| 9 | -38.10 | -4.29 | 9.24 | -3.01 | -0.11 | 0.65 | 3142 | 3142 | 2 | 72 |
| 10 | -36.68 | -8.08 | 11.46 | -2.84 | -0.62 | 0.77 | 3142 | 3142 | 2 | 73 |
| 11 | -35.02 | -11.55 | 13.10 | -2.71 | -0.99 | 0.88 | 3142 | 3142 | 2 | 74 |
| 12 | -33.96 | -14.26 | 15.02 | -2.56 | -1.23 | 1.08 | 3142 | 3142 | 2 | 73 |
| 13 | -33.51 | -15.81 | 17.42 | -2.48 | -1.36 | 1.34 | 3142 | 3142 | 2 | 69 |
| 14 | -33.81 | -15.85 | 20.34 | -2.55 | -1.35 | 1.67 | 3142 | 3142 | 2 | 63 |
| 15 | -34.82 | -13.02 | 22.67 | -3.37 | -1.16 | 2.17 | 3142 | 3142 | 2 | 48 |

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | -35.38 | -1.95 | 14.15 | -3.45 | -0.19 | 1.35 | 3142 | 3142 | 2 | 55 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 8 | | | | | | | | | | 44 |

Muro [Platea]: 17 - Nodi: [35-42-43-36]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=162.220 [(4+5)-VIII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 93.25 | 20.56 | 25.35 | 5.53 | 0.91 | 0.57 | 3142 | 3142 | 1 | 39 |
| 2 | 86.74 | 31.28 | 13.86 | 5.29 | 2.89 | 3.01 | 3142 | 3142 | 1 | 29 |
| 3 | 116.17 | 4.52 | 8.26 | 11.68 | -0.69 | -0.93 | 3142 | 3142 | 1 | 19 |
| 4 | 121.83 | 3.71 | 5.66 | 12.32 | 1.90 | 2.67 | 3142 | 3142 | 1 | 16 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 16 |

Muro [Platea]: 18 - Nodi: [36-43-44-37]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=243.830 [(4+5)-VI-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 95.68 | 46.45 | 18.61 | 5.26 | 2.27 | 0.26 | 3142 | 3142 | 1 | 43 |
| 2 | 49.69 | 37.72 | 27.32 | 3.49 | 3.33 | 1.96 | 3142 | 3142 | 3 | 45 |
| 3 | 55.98 | 33.63 | 21.76 | 4.29 | 2.97 | 1.64 | 3142 | 3142 | 3 | 42 |
| 4 | 61.27 | 29.18 | 18.09 | 4.71 | 2.52 | 1.50 | 3142 | 3142 | 3 | 39 |
| 5 | 127.93 | 53.20 | 0.87 | 5.81 | 4.14 | 0.23 | 3142 | 3142 | 1 | 38 |
| 6 | 129.46 | 47.83 | 1.53 | 5.94 | 3.63 | 0.55 | 3142 | 3142 | 1 | 36 |
| 7 | 129.17 | 41.22 | 2.62 | 5.98 | 3.04 | 0.88 | 3142 | 3142 | 1 | 34 |
| 8 | 127.16 | 33.73 | 3.70 | 6.00 | 2.40 | 1.19 | 3142 | 3142 | 1 | 32 |
| 9 | 123.72 | 25.45 | 3.70 | 6.07 | 1.57 | 1.37 | 3142 | 3142 | 1 | 31 |
| 10 | 117.39 | 14.30 | 1.50 | 7.42 | -0.05 | 1.43 | 3142 | 3142 | 1 | 26 |
| 11 | 121.12 | 36.71 | 14.13 | 12.48 | 2.04 | 0.95 | 3142 | 3142 | 1 | 17 |
| 12 | 115.61 | 49.88 | 3.13 | 14.57 | 5.15 | 1.26 | 3142 | 3142 | 1 | 15 |
| 13 | 120.58 | 55.98 | 1.40 | 14.88 | 5.79 | 0.67 | 3142 | 3142 | 1 | 15 |
| 14 | 124.43 | 56.71 | 2.47 | 15.28 | 5.77 | 0.37 | 3142 | 3142 | 1 | 15 |
| 15 | 127.11 | 53.99 | 4.37 | 15.52 | 5.45 | 0.20 | 3142 | 3142 | 1 | 15 |
| 16 | 128.30 | 48.97 | 6.44 | 15.60 | 4.96 | 0.13 | 3142 | 3142 | 1 | 15 |
| 17 | 127.98 | 42.42 | 8.51 | 15.51 | 4.36 | 0.11 | 3142 | 3142 | 1 | 15 |
| 18 | 126.51 | 34.66 | 10.41 | 15.19 | 3.69 | 0.12 | 3142 | 3142 | 1 | 15 |
| 19 | 125.09 | 25.40 | 11.50 | 14.68 | 2.78 | 0.19 | 3142 | 3142 | 1 | 16 |
| 20 | 127.73 | 17.80 | 5.20 | 12.74 | 0.58 | 0.73 | 3142 | 3142 | 1 | 17 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 16 | | | | | | | | | | 15 |

Muro [Platea]: 19 - Nodi: [32-39-40-33]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=235.513 [(4+5)-VIII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -36.92 | -0.34 | 2.51 | -3.27 | 0.00 | 0.04 | 3142 | 3142 | 2 | 80 |
| 2 | -37.33 | -0.83 | 3.30 | -3.32 | -0.15 | 0.51 | 3142 | 3142 | 2 | 69 |
| 3 | -38.57 | -0.40 | 3.05 | -3.00 | 0.05 | 0.06 | 3142 | 3142 | 2 | 86 |
| 4 | -38.93 | -0.91 | 5.04 | -3.05 | -0.11 | 0.65 | 3142 | 3142 | 2 | 72 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 69 |

Muro [Platea]: 20 - Nodi: [40-47-48-41]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=104.755 [(4+5)-VII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -35.92 | -3.67 | 10.97 | -3.31 | -0.19 | 0.86 | 3142 | 3142 | 2 | 63 |
| 2 | -33.65 | -6.45 | 12.08 | -3.39 | -0.64 | 1.11 | 3142 | 3142 | 2 | 59 |
| 3 | -32.20 | -9.32 | 13.66 | -3.25 | -0.94 | 1.16 | 3142 | 3142 | 2 | 60 |
| 4 | -30.81 | -11.05 | 15.54 | -3.20 | -1.13 | 1.23 | 3142 | 3142 | 2 | 60 |
| 5 | -30.05 | -11.31 | 17.78 | -3.19 | -1.18 | 1.33 | 3142 | 3142 | 2 | 58 |
| 6 | -30.74 | -9.77 | 19.76 | -3.16 | -1.02 | 1.49 | 3142 | 3142 | 2 | 57 |
| 7 | -33.47 | -6.56 | 18.72 | -2.81 | -0.49 | 1.64 | 3142 | 3142 | 2 | 59 |
| 8 | -33.90 | -3.10 | 11.42 | -2.56 | 0.09 | 1.05 | 3142 | 3142 | 2 | 73 |
| 9 | -36.02 | -3.38 | 13.64 | -2.65 | -0.11 | 1.00 | 3142 | 3142 | 2 | 72 |
| 10 | -35.29 | -6.22 | 15.18 | -2.36 | -0.47 | 1.20 | 3142 | 3142 | 2 | 74 |
| 11 | -33.49 | -8.36 | 15.95 | -2.25 | -0.73 | 1.26 | 3142 | 3142 | 2 | 75 |
| 12 | -32.24 | -9.56 | 16.40 | -2.09 | -0.85 | 1.35 | 3142 | 3142 | 2 | 77 |
| 13 | -31.41 | -9.29 | 16.80 | -1.96 | -0.81 | 1.48 | 3142 | 3142 | 2 | 77 |
| 14 | -30.55 | -7.32 | 16.76 | -1.97 | -0.60 | 1.62 | 3142 | 3142 | 2 | 73 |
| 15 | -28.54 | -3.82 | 14.81 | -2.35 | -0.28 | 1.69 | 3142 | 3142 | 2 | 65 |
| 16 | -27.36 | -1.08 | 8.96 | -2.47 | 0.15 | 0.97 | 3142 | 3142 | 2 | 76 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 6 | | | | | | | | | | 57 |

Muro [Platea]: 21 - Nodi: [42-49-50-43]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=636.080 [(4+5)-IV-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 149.42 | 4.74 | 4.05 | 12.24 | -0.57 | 0.10 | 3142 | 3142 | 1 | 18 |
| 2 | 152.02 | 8.04 | 7.11 | 12.68 | 1.61 | 0.55 | 3142 | 3142 | 1 | 17 |
| 3 | 146.83 | 4.15 | -0.25 | 12.22 | -0.49 | 0.02 | 3142 | 3142 | 1 | 19 |
| 4 | 148.88 | 10.70 | -1.30 | 12.62 | 1.75 | 0.16 | 3142 | 3142 | 1 | 18 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 17 |

Muro [Platea]: 22 - Nodi: [43-50-51-44]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=243.048 [(4+5)-V-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 150.62 | 35.59 | 11.75 | 12.49 | 1.76 | 0.72 | 3142 | 3142 | 1 | 17 |
| 2 | 148.62 | 49.84 | 12.49 | 12.62 | 4.48 | 0.41 | 3142 | 3142 | 1 | 17 |
| 3 | 149.33 | 57.93 | 9.42 | 13.00 | 5.41 | 0.35 | 3142 | 3142 | 1 | 17 |
| 4 | 151.77 | 59.60 | 6.59 | 13.34 | 5.50 | 0.46 | 3142 | 3142 | 1 | 16 |
| 5 | 153.70 | 57.21 | 4.40 | 13.58 | 5.22 | 0.56 | 3142 | 3142 | 1 | 16 |
| 6 | 154.35 | 52.35 | 2.73 | 13.66 | 4.76 | 0.66 | 3142 | 3142 | 1 | 16 |
| 7 | 153.47 | 45.92 | 1.36 | 13.59 | 4.19 | 0.75 | 3142 | 3142 | 1 | 16 |
| 8 | 151.05 | 38.23 | 0.11 | 13.36 | 3.54 | 0.85 | 3142 | 3142 | 1 | 16 |
| 9 | 147.74 | 29.31 | -1.09 | 13.00 | 2.64 | 0.86 | 3142 | 3142 | 1 | 16 |
| 10 | 145.99 | 19.67 | 0.72 | 12.36 | 0.34 | 0.45 | 3142 | 3142 | 1 | 18 |
| 11 | 150.02 | 36.88 | -0.32 | 12.27 | 1.96 | 0.52 | 3142 | 3142 | 1 | 18 |
| 12 | 147.48 | 50.94 | 2.39 | 12.12 | 4.46 | 1.09 | 3142 | 3142 | 1 | 17 |
| 13 | 149.48 | 57.92 | 5.53 | 12.03 | 5.26 | 1.03 | 3142 | 3142 | 1 | 17 |
| 14 | 152.33 | 59.13 | 7.25 | 12.11 | 5.28 | 0.77 | 3142 | 3142 | 1 | 18 |
| 15 | 154.39 | 56.58 | 7.95 | 12.19 | 4.98 | 0.50 | 3142 | 3142 | 1 | 18 |
| 16 | 155.06 | 51.69 | 8.09 | 12.20 | 4.51 | 0.25 | 3142 | 3142 | 1 | 18 |
| 17 | 154.14 | 45.30 | 7.99 | 12.11 | 3.95 | 0.01 | 3142 | 3142 | 1 | 19 |
| 18 | 151.73 | 37.69 | 7.84 | 11.94 | 3.30 | -0.23 | 3142 | 3142 | 1 | 19 |
| 19 | 148.15 | 28.86 | 7.53 | 11.68 | 2.39 | -0.39 | 3142 | 3142 | 1 | 19 |
| 20 | 144.78 | 19.27 | 5.54 | 11.54 | 0.26 | -0.20 | 3142 | 3142 | 1 | 19 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 7 | | | | | | | | | | 16 |

Muro [Platea]: 23 - Nodi: [46-53-54-47]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=171.878 [(4+5)-VI-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -31.60 | 0.02 | 5.61 | -3.22 | -0.04 | 0.09 | 3142 | 3142 | 2 | 80 |
| 2 | -31.81 | -0.42 | 8.40 | -3.25 | -0.14 | 1.19 | 3142 | 3142 | 2 | 59 |
| 3 | -33.85 | -0.41 | 5.76 | -2.22 | 0.07 | 0.07 | 3142 | 3142 | 2 | >100 |
| 4 | -34.28 | -0.83 | 9.63 | -2.27 | -0.03 | 1.29 | 3142 | 3142 | 2 | 74 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 59 |

Muro [Platea]: 24 - Nodi: [57-64-65-58]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=220.209 [(4+5)-II-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 43.37 | 50.67 | 8.18 | 6.25 | 4.27 | 2.11 | 3142 | 3142 | 1 | 30 |
| 2 | 40.57 | 48.68 | 15.88 | 9.58 | 4.91 | 1.75 | 3142 | 3142 | 1 | 22 |
| 3 | 44.31 | 44.56 | 16.31 | 10.89 | 4.95 | 1.66 | 3142 | 3142 | 1 | 20 |
| 4 | 46.23 | 40.80 | 12.99 | 11.59 | 4.70 | 1.41 | 3142 | 3142 | 1 | 19 |
| 5 | 47.40 | 36.28 | 8.31 | 11.93 | 4.28 | 1.09 | 3142 | 3142 | 1 | 19 |
| 6 | 47.81 | 30.92 | 3.34 | 11.99 | 3.76 | 0.71 | 3142 | 3142 | 1 | 19 |
| 7 | 47.71 | 25.00 | -1.33 | 11.81 | 3.17 | 0.31 | 3142 | 3142 | 1 | 20 |
| 8 | 47.69 | 18.79 | -4.97 | 11.33 | 2.49 | -0.12 | 3142 | 3142 | 1 | 22 |
| 9 | 49.09 | 12.49 | -6.04 | 10.45 | 1.68 | -0.56 | 3142 | 3142 | 1 | 22 |
| 10 | 60.42 | 8.77 | 1.86 | 7.93 | 0.22 | -1.27 | 3142 | 3142 | 1 | 27 |
| 11 | -56.42 | 13.11 | 40.29 | -5.16 | 2.73 | 3.22 | 3142 | 3142 | 2 | 32 |
| 12 | -56.16 | 1.16 | 41.66 | -6.30 | -0.23 | 2.98 | 3142 | 3142 | 2 | 29 |
| 13 | -55.04 | -9.48 | 38.09 | -6.93 | -1.50 | 2.74 | 3142 | 3142 | 2 | 28 |
| 14 | -54.57 | -17.09 | 31.87 | -7.36 | -2.16 | 2.32 | 3142 | 3142 | 2 | 28 |
| 15 | -54.57 | -21.89 | 24.48 | -7.62 | -2.55 | 1.80 | 3142 | 3142 | 2 | 28 |
| 16 | -55.06 | -24.15 | 16.82 | -7.73 | -2.72 | 1.25 | 3142 | 3142 | 2 | 30 |
| 17 | -56.05 | -24.03 | 9.51 | -7.75 | -2.69 | 0.74 | 3142 | 3142 | 2 | 32 |
| 18 | -57.58 | -21.64 | 3.24 | -7.65 | -2.46 | 0.31 | 3142 | 3142 | 2 | 34 |
| 19 | -59.87 | -17.29 | -0.86 | -7.43 | -1.96 | 0.02 | 3142 | 3142 | 2 | 36 |
| 20 | -65.63 | -12.42 | 0.67 | -6.53 | -0.46 | -0.27 | 3142 | 3142 | 2 | 40 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 5 | | | | | | | | | | 19 |

Muro [Platea]: 25 - Nodi: [54-61-62-55]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=67.263 [(4+5)-V-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -27.57 | -2.04 | 19.32 | -2.80 | -0.27 | 1.41 | 3142 | 3142 | 2 | 62 |
| 2 | -24.16 | -4.00 | 20.77 | -2.94 | -0.60 | 1.72 | 3142 | 3142 | 2 | 56 |
| 3 | -22.44 | -5.44 | 22.04 | -2.70 | -0.77 | 1.71 | 3142 | 3142 | 2 | 59 |
| 4 | -20.26 | -5.82 | 22.99 | -2.46 | -0.84 | 1.68 | 3142 | 3142 | 2 | 63 |
| 5 | -17.97 | -4.86 | 23.73 | -2.19 | -0.79 | 1.63 | 3142 | 3142 | 2 | 68 |
| 6 | -15.57 | -2.49 | 24.01 | -1.82 | -0.53 | 1.57 | 3142 | 3142 | 2 | 77 |
| 7 | 26.45 | -23.90 | 14.02 | 2.85 | -1.96 | 0.96 | 3142 | 3142 | 1 | 66 |
| 8 | 32.67 | -27.89 | 22.67 | 3.10 | -1.80 | 1.69 | 3142 | 3142 | 1 | 52 |
| 9 | -26.77 | -2.27 | 22.16 | -1.74 | -0.18 | 1.67 | 3142 | 3142 | 2 | 77 |
| 10 | -26.08 | -4.26 | 23.42 | -1.28 | -0.39 | 2.07 | 3142 | 3142 | 2 | 78 |
| 11 | -22.86 | -5.60 | 23.35 | -1.13 | -0.58 | 2.12 | 3142 | 3142 | 2 | 81 |
| 12 | -20.07 | -5.94 | 22.47 | -0.96 | -0.67 | 2.16 | 3142 | 3142 | 2 | 84 |
| 13 | 12.45 | -17.17 | 17.48 | 0.44 | -1.75 | 1.57 | 3142 | 3142 | 1 | 79 |
| 14 | 15.96 | -20.53 | 18.66 | 0.61 | -2.06 | 1.77 | 3142 | 3142 | 1 | 68 |
| 15 | 18.30 | -24.08 | 22.36 | 0.86 | -2.24 | 2.07 | 3142 | 3142 | 1 | 61 |
| 16 | 15.39 | -27.80 | 29.66 | 1.04 | -1.79 | 2.40 | 3142 | 3142 | 1 | 63 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 8 | | | | | | | | | | 52 |

Muro [Platea]: 26 - Nodi: [56-63-64-57]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=273.930 [(4+5)-IV-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -58.09 | 26.03 | 41.55 | -4.85 | 1.79 | 3.61 | 3142 | 3142 | 2 | 32 |
| 2 | -58.32 | 20.49 | 34.07 | -4.83 | 2.09 | 2.82 | 3142 | 3142 | 2 | 35 |
| 3 | -49.55 | 33.01 | 42.61 | -4.13 | 3.06 | 3.57 | 3142 | 3142 | 2 | 35 |
| 4 | -54.11 | 37.10 | 41.39 | -4.53 | 2.78 | 3.47 | 3142 | 3142 | 2 | 34 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 1 | | | | | | | | | | 32 |

Muro [Platea]: 27 - Nodi: [55-62-63-56]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=66.446 [(4+5)-II-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 17.45 | -15.24 | 40.50 | 0.98 | -4.00 | 3.68 | 3142 | 3142 | 1 | 34 |
| 2 | 0.17 | -7.98 | 40.12 | -0.33 | -2.00 | 2.46 | 3142 | 3142 | 1 | 58 |
| 3 | -9.12 | 20.11 | 33.13 | 0.03 | 2.20 | 2.79 | 3142 | 3142 | 2 | 51 |
| 4 | 10.21 | 17.42 | 31.26 | 1.85 | 5.56 | 2.57 | 3142 | 3142 | 1 | 31 |
| 5 | 9.51 | -10.91 | 32.08 | 0.60 | -3.52 | 3.27 | 3142 | 3142 | 1 | 38 |
| 6 | 2.76 | -2.46 | 30.38 | 0.25 | -1.47 | 4.52 | 3142 | 3142 | 1 | 43 |
| 7 | -22.97 | 22.43 | 33.34 | -2.60 | 2.20 | 3.48 | 3142 | 3142 | 2 | 43 |
| 8 | 2.77 | 14.99 | 34.58 | 0.23 | 5.10 | 4.02 | 3142 | 3142 | 1 | 28 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 8 | | | | | | | | | | 28 |

Muro [Platea]: 28 - Nodi: [39-46-47-40]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=388.869 [(4+5)-VII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -36.04 | -0.18 | 4.36 | -3.36 | -0.02 | -0.02 | 3142 | 3142 | 2 | 78 |
| 2 | -36.35 | -0.65 | 5.51 | -3.40 | -0.14 | 0.93 | 3142 | 3142 | 2 | 61 |
| 3 | -36.35 | -0.44 | 5.14 | -2.66 | 0.05 | 0.05 | 3142 | 3142 | 2 | 98 |
| 4 | -36.65 | -0.93 | 7.12 | -2.69 | -0.07 | 1.05 | 3142 | 3142 | 2 | 71 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 61 |

Muro [Platea]: 29 - Nodi: [49-56-57-50]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=286.780 [(4+5)-VIII-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 116.29 | 7.02 | -6.10 | 11.73 | -0.66 | 0.42 | 3142 | 3142 | 1 | 19 |
| 2 | 125.07 | 10.06 | -5.01 | 12.47 | 2.59 | -2.11 | 3142 | 3142 | 1 | 16 |
| 3 | -70.04 | 1.37 | 17.38 | -7.19 | -0.84 | 2.06 | 3142 | 3142 | 2 | 29 |
| 4 | 97.39 | 40.18 | -10.81 | 6.34 | 3.76 | -1.98 | 3142 | 3142 | 1 | 29 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 16 |

Muro [Platea]: 30 - Nodi: [50-57-58-51]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=72.150 [(4+5)-I-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 123.08 | 40.46 | -3.17 | 12.07 | 3.01 | -0.23 | 3142 | 3142 | 1 | 19 |
| 2 | 117.55 | 51.04 | 8.34 | 13.45 | 4.89 | 0.10 | 3142 | 3142 | 1 | 17 |
| 3 | 119.51 | 55.86 | 10.61 | 13.63 | 5.38 | 0.62 | 3142 | 3142 | 1 | 16 |
| 4 | 121.80 | 55.65 | 9.48 | 13.98 | 5.35 | 0.82 | 3142 | 3142 | 1 | 16 |
| 5 | 123.35 | 52.38 | 7.00 | 14.19 | 5.04 | 0.85 | 3142 | 3142 | 1 | 15 |
| 6 | 123.84 | 47.20 | 4.13 | 14.25 | 4.57 | 0.81 | 3142 | 3142 | 1 | 15 |
| 7 | 123.16 | 40.76 | 1.28 | 14.16 | 4.01 | 0.74 | 3142 | 3142 | 1 | 16 |
| 8 | 121.66 | 33.20 | -1.16 | 13.90 | 3.37 | 0.66 | 3142 | 3142 | 1 | 16 |
| 9 | 120.80 | 23.64 | -2.90 | 13.67 | 2.53 | 0.61 | 3142 | 3142 | 1 | 16 |
| 10 | 121.42 | 15.23 | 0.85 | 12.16 | 0.74 | 0.04 | 3142 | 3142 | 1 | 19 |
| 11 | 104.83 | 49.70 | -5.36 | 6.78 | 3.35 | 0.45 | 3142 | 3142 | 1 | 33 |
| 12 | 114.98 | 54.25 | 5.06 | 5.98 | 4.28 | 1.06 | 3142 | 3142 | 1 | 33 |
| 13 | 118.43 | 56.48 | 9.95 | 6.26 | 4.52 | 1.22 | 3142 | 3142 | 1 | 31 |
| 14 | 122.08 | 55.17 | 10.85 | 6.39 | 4.32 | 0.94 | 3142 | 3142 | 1 | 32 |
| 15 | 124.40 | 51.29 | 9.66 | 6.50 | 3.95 | 0.56 | 3142 | 3142 | 1 | 33 |
| 16 | 125.15 | 45.90 | 7.57 | 6.53 | 3.47 | 0.17 | 3142 | 3142 | 1 | 35 |
| 17 | 124.33 | 39.57 | 5.27 | 6.49 | 2.92 | -0.20 | 3142 | 3142 | 1 | 35 |
| 18 | 122.13 | 32.51 | 3.36 | 6.45 | 2.33 | -0.55 | 3142 | 3142 | 1 | 33 |
| 19 | 119.51 | 24.33 | 3.34 | 6.37 | 1.59 | -0.64 | 3142 | 3142 | 1 | 33 |
| 20 | 117.11 | 12.17 | 3.67 | 7.54 | 0.13 | -0.70 | 3142 | 3142 | 1 | 28 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 6 | | | | | | | | | | 15 |

Muro [Platea]: 31 - Nodi: [47-54-55-48]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=83.085 [(4+5)-VII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -32.08 | -2.89 | 14.94 | -3.01 | -0.23 | 1.22 | 3142 | 3142 | 2 | 62 |
| 2 | -30.12 | -5.11 | 16.66 | -3.00 | -0.55 | 1.45 | 3142 | 3142 | 2 | 59 |
| 3 | -28.30 | -7.47 | 17.70 | -2.74 | -0.76 | 1.41 | 3142 | 3142 | 2 | 63 |
| 4 | -26.47 | -8.22 | 18.55 | -2.62 | -0.85 | 1.36 | 3142 | 3142 | 2 | 66 |
| 5 | -24.82 | -7.30 | 19.34 | -2.54 | -0.80 | 1.28 | 3142 | 3142 | 2 | 69 |

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | -23.35 | -4.41 | 19.77 | -2.48 | -0.58 | 1.16 | 3142 | 3142 | 2 | 72 |
| 7 | -21.97 | -0.46 | 19.23 | -2.23 | -0.17 | 1.08 | 3142 | 3142 | 2 | 79 |
| 8 | 37.87 | -5.11 | 1.19 | 2.32 | 0.41 | -0.34 | 3142 | 3142 | 1 | 94 |
| 9 | -32.43 | -2.79 | 16.49 | -2.36 | -0.15 | 1.29 | 3142 | 3142 | 2 | 72 |
| 10 | -30.94 | -5.72 | 18.41 | -2.11 | -0.45 | 1.56 | 3142 | 3142 | 2 | 72 |
| 11 | -28.65 | -7.26 | 18.66 | -2.02 | -0.65 | 1.60 | 3142 | 3142 | 2 | 73 |
| 12 | -26.63 | -7.96 | 18.54 | -1.83 | -0.72 | 1.69 | 3142 | 3142 | 2 | 75 |
| 13 | -24.73 | -7.16 | 18.06 | -1.62 | -0.66 | 1.78 | 3142 | 3142 | 2 | 77 |
| 14 | -22.76 | -4.58 | 17.17 | -1.39 | -0.42 | 1.83 | 3142 | 3142 | 2 | 81 |
| 15 | 27.37 | -16.83 | 0.25 | 2.76 | -1.56 | 0.58 | 3142 | 3142 | 1 | 76 |
| 16 | 46.52 | -12.84 | -1.05 | 4.92 | -0.24 | -0.04 | 3142 | 3142 | 1 | 50 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 16 | | | | | | | | | | 50 |

Muro [Platea]: 32 - Nodi: [53-60-61-54]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=81.778 [(4+5)-IV-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -28.34 | 0.02 | 7.52 | -2.81 | -0.04 | -0.02 | 3142 | 3142 | 2 | 93 |
| 2 | -28.44 | -0.51 | 9.33 | -2.82 | -0.11 | 1.56 | 3142 | 3142 | 2 | 60 |
| 3 | -27.56 | -0.40 | 8.37 | -1.84 | 0.05 | 0.05 | 3142 | 3142 | 2 | >100 |
| 4 | -27.76 | -0.79 | 11.53 | -1.86 | -0.04 | 1.75 | 3142 | 3142 | 2 | 73 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 60 |

Muro [Platea]: 33 - Nodi: [64-71-72-65]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=93.244 [(4+5)-I-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -44.17 | 17.85 | 36.01 | -4.55 | 2.94 | 3.29 | 3142 | 3142 | 2 | 34 |
| 2 | -35.21 | -0.20 | 29.78 | -5.41 | -0.22 | 3.73 | 3142 | 3142 | 2 | 29 |
| 3 | -34.79 | -13.33 | 26.52 | -5.42 | -1.80 | 3.41 | 3142 | 3142 | 2 | 30 |
| 4 | -35.32 | -22.61 | 23.07 | -5.44 | -2.63 | 2.81 | 3142 | 3142 | 2 | 32 |
| 5 | -36.16 | -28.25 | 18.70 | -5.48 | -3.06 | 2.10 | 3142 | 3142 | 2 | 35 |
| 6 | -36.87 | -30.56 | 13.76 | -5.55 | -3.23 | 1.35 | 3142 | 3142 | 2 | 38 |
| 7 | -37.55 | -29.79 | 8.85 | -5.69 | -3.14 | 0.62 | 3142 | 3142 | 2 | 42 |
| 8 | -38.83 | -25.95 | 4.55 | -5.89 | -2.77 | 0.01 | 3142 | 3142 | 2 | 45 |
| 9 | -42.39 | -18.77 | 1.63 | -6.24 | -1.97 | -0.30 | 3142 | 3142 | 2 | 41 |
| 10 | -52.67 | -9.89 | -2.99 | -5.71 | -0.39 | 0.09 | 3142 | 3142 | 2 | 46 |
| 11 | -5.99 | 34.01 | 32.56 | -1.16 | 3.12 | 3.01 | 3142 | 3142 | 1 | 41 |
| 12 | 0.89 | 29.28 | 29.91 | -1.41 | 2.42 | 2.39 | 3142 | 3142 | 1 | 52 |
| 13 | 4.18 | 24.19 | 25.65 | -1.46 | 1.86 | 1.85 | 3142 | 3142 | 1 | 68 |
| 14 | -30.00 | -27.33 | 30.55 | -0.11 | -2.43 | 1.79 | 3142 | 3142 | 2 | 62 |
| 15 | -30.24 | -33.66 | 22.62 | -0.16 | -2.94 | 1.42 | 3142 | 3142 | 2 | 61 |
| 16 | -30.80 | -36.10 | 14.42 | -0.19 | -3.11 | 1.01 | 3142 | 3142 | 2 | 64 |
| 17 | -31.81 | -34.83 | 6.38 | -0.18 | -2.96 | 0.58 | 3142 | 3142 | 2 | 75 |
| 18 | -33.91 | -29.85 | -1.06 | -0.24 | -2.45 | 0.17 | 3142 | 3142 | 2 | >100 |
| 19 | 3.07 | -3.62 | -2.02 | -1.32 | -0.71 | -0.51 | 3142 | 3142 | 1 | >100 |
| 20 | -44.87 | -7.50 | -11.80 | -2.26 | 0.15 | -0.37 | 3142 | 3142 | 2 | >100 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 29 |

Muro [Platea]: 34 - Nodi: [62-69-70-63]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=75.495 [(4+5)-II-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 5.60 | -13.75 | 32.47 | 0.40 | -1.72 | 2.52 | 3142 | 3142 | 1 | 61 |
| 2 | -14.12 | 20.28 | 24.90 | -2.06 | 1.62 | 1.73 | 3142 | 3142 | 2 | 69 |

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | -22.61 | 30.59 | 26.68 | -3.29 | 2.66 | 1.94 | 3142 | 3142 | 2 | 50 |
| 4 | -37.20 | 39.91 | 28.38 | -3.93 | 3.22 | 2.64 | 3142 | 3142 | 2 | 40 |
| 5 | 2.21 | -11.26 | 26.69 | 0.12 | -1.48 | 2.48 | 3142 | 3142 | 1 | 66 |
| 6 | -0.38 | -2.53 | 27.55 | -0.07 | -0.58 | 2.96 | 3142 | 3142 | 1 | 73 |
| 7 | -24.46 | 32.74 | 15.15 | -0.56 | 3.16 | 1.13 | 3142 | 3142 | 2 | 58 |
| 8 | -37.56 | 48.92 | 17.23 | -2.29 | 4.29 | 1.57 | 3142 | 3142 | 2 | 42 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 40 |

Muro [Platea]: 35 - Nodi: [61-68-69-62]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=57.971 [(4+5)-VIII-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -21.44 | -1.95 | 24.96 | -2.30 | -0.11 | 1.98 | 3142 | 3142 | 2 | 61 |
| 2 | -15.86 | -4.72 | 27.03 | -2.27 | -0.49 | 2.48 | 3142 | 3142 | 2 | 55 |
| 3 | -13.20 | -6.66 | 26.97 | -1.80 | -0.72 | 2.38 | 3142 | 3142 | 2 | 62 |
| 4 | -10.88 | -6.83 | 26.20 | -1.49 | -0.78 | 2.23 | 3142 | 3142 | 2 | 70 |
| 5 | -9.30 | -5.67 | 25.53 | -1.28 | -0.68 | 2.08 | 3142 | 3142 | 2 | 77 |
| 6 | 6.85 | -19.55 | 21.06 | 0.81 | -1.74 | 2.03 | 3142 | 3142 | 1 | 69 |
| 7 | 6.97 | -20.66 | 24.44 | 0.78 | -1.88 | 2.18 | 3142 | 3142 | 1 | 64 |
| 8 | 6.91 | -19.21 | 27.58 | 0.65 | -1.72 | 2.29 | 3142 | 3142 | 1 | 65 |
| 9 | -22.81 | -2.02 | 29.06 | -1.35 | 0.10 | 2.32 | 3142 | 3142 | 2 | 71 |
| 10 | -15.29 | -6.88 | 29.81 | -0.46 | -0.51 | 2.61 | 3142 | 3142 | 3 | 83 |
| 11 | -11.44 | -8.39 | 27.90 | -0.28 | -0.73 | 2.38 | 3142 | 3142 | 2 | 83 |
| 12 | -9.19 | -8.49 | 25.49 | -0.22 | -0.78 | 2.24 | 3142 | 3142 | 2 | 86 |
| 13 | 3.92 | -15.48 | 21.72 | 0.08 | -1.41 | 1.56 | 3142 | 3142 | 1 | 88 |
| 14 | 4.41 | -17.61 | 22.95 | 0.10 | -1.63 | 1.72 | 3142 | 3142 | 1 | 78 |
| 15 | 4.58 | -18.24 | 24.23 | 0.14 | -1.72 | 1.92 | 3142 | 3142 | 1 | 72 |
| 16 | 3.66 | -17.31 | 25.54 | 0.20 | -1.59 | 2.08 | 3142 | 3142 | 1 | 71 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 55 |

Muro [Platea]: 36 - Nodi: [63-70-71-64]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=102.594 [(4+5)-IV-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -44.93 | 38.70 | 35.35 | -4.16 | 3.68 | 2.54 | 3142 | 3142 | 2 | 40 |
| 2 | -45.68 | 35.88 | 34.51 | -4.38 | 2.41 | 3.52 | 3142 | 3142 | 2 | 34 |
| 3 | -45.55 | 48.17 | 37.41 | -3.23 | 4.74 | 2.57 | 3142 | 3142 | 2 | 34 |
| 4 | -39.62 | 43.81 | 40.31 | -2.88 | 3.05 | 3.80 | 3142 | 3142 | 2 | 36 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 34 |

Muro [Platea]: 37 - Nodi: [60-67-68-61]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=49.253 [(4+5)-VIII-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -23.25 | -0.01 | 9.42 | -2.59 | -0.06 | 0.09 | 3142 | 3142 | 2 | 98 |
| 2 | -22.45 | 0.08 | 13.77 | -2.53 | -0.10 | 2.00 | 3142 | 3142 | 2 | 58 |
| 3 | -26.67 | 0.37 | 8.57 | -1.56 | 0.11 | 0.02 | 3142 | 3142 | 2 | >100 |
| 4 | -28.05 | 1.03 | 12.79 | -1.68 | 0.17 | 1.90 | 3142 | 3142 | 2 | 73 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 58 |

Muro [Platea]: 38 - Nodi: [71-79-80-6-72]Pann=23Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=27.708 [(4+5)-V-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -4.17 | -16.39 | 24.45 | 0.36 | -1.82 | -0.29 | 3142 | 3142 | 2 | >100 |
| 2 | -3.90 | -28.23 | 18.88 | 0.37 | -2.78 | -0.14 | 3142 | 3142 | 2 | 90 |
| 3 | -3.93 | -35.10 | 13.49 | 0.36 | -3.34 | -0.00 | 3142 | 3142 | 2 | 79 |
| 4 | -3.93 | -37.50 | 8.02 | 0.38 | -3.53 | 0.12 | 3142 | 3142 | 2 | 73 |
| 5 | -4.10 | -35.33 | 2.30 | 0.37 | -3.36 | 0.24 | 3142 | 3142 | 2 | 73 |
| 6 | -5.33 | -26.73 | -4.49 | 0.48 | -2.81 | 0.34 | 3142 | 3142 | 2 | 84 |
| 7 | -7.90 | -12.96 | -10.63 | 0.39 | -2.03 | 0.74 | 3142 | 3142 | 2 | 94 |
| 8 | -0.37 | 11.14 | -5.77 | 0.31 | 1.50 | 0.36 | 3142 | 3142 | (4+5)-V-4 | >100 |
| 9 | 10.14 | 2.94 | -26.55 | 1.67 | 3.60 | -1.86 | 3142 | 3142 | 3 | 47 |
| 10 | -35.48 | 1.78 | -17.80 | -2.37 | 2.97 | -1.71 | 3142 | 3142 | 3 | 55 |
| 11 | -29.19 | -1.71 | -9.76 | -3.27 | 0.58 | -2.18 | 3142 | 3142 | 2 | 48 |
| 12 | -9.50 | -16.16 | -1.33 | -2.29 | -2.13 | -1.84 | 3142 | 3142 | 2 | 63 |
| 13 | -7.41 | -28.17 | 1.94 | -1.70 | -3.09 | -0.67 | 3142 | 3142 | 2 | 70 |
| 14 | -7.29 | -35.44 | 4.75 | -1.43 | -3.58 | 0.42 | 3142 | 3142 | 2 | 66 |
| 15 | -6.76 | -37.30 | 7.85 | -1.39 | -3.73 | 1.36 | 3142 | 3142 | 2 | 52 |
| 16 | -6.51 | -34.95 | 10.70 | -1.36 | -3.53 | 2.29 | 3142 | 3142 | 2 | 45 |
| 17 | -6.38 | -28.23 | 13.27 | -1.36 | -2.98 | 3.20 | 3142 | 3142 | 2 | 43 |
| 18 | -6.75 | -16.46 | 15.46 | -1.41 | -2.04 | 4.11 | 3142 | 3142 | 2 | 42 |
| 19 | -7.14 | 0.29 | 18.34 | -1.62 | -0.51 | 5.01 | 3142 | 3142 | 2 | 39 |
| 20 | -10.15 | 13.20 | 31.24 | -1.16 | 3.83 | 4.47 | 3142 | 3142 | 2 | 31 |
| 21 | -5.93 | 15.79 | 27.95 | 0.52 | 4.15 | 0.94 | 3142 | 3142 | 2 | 50 |
| 22 | -0.52 | 26.24 | 19.18 | -0.02 | 2.06 | 0.19 | 3142 | 3142 | 1 | >100 |
| 23 | -2.45 | -22.92 | -4.67 | -0.08 | -1.99 | -0.48 | 3142 | 3142 | (4+5)-I-1 | >100 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 20 | | | | | | | | | | 31 |

Muro [Platea]: 39 - Nodi: [70-5-78-79-71]Pann=9Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=13.659 [(4+5)-V-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -32.83 | 35.50 | 71.24 | -1.26 | 10.21 | 5.02 | 3142 | 3142 | 2 | 16 |
| 2 | 7.22 | 47.41 | 31.31 | 1.04 | 6.77 | 1.69 | 3142 | 3142 | 2 | 29 |
| 3 | -3.06 | 62.82 | 27.94 | -0.04 | 2.16 | 1.97 | 3142 | 3142 | 2 | 59 |
| 4 | -13.71 | 42.61 | 42.04 | -2.31 | -0.15 | 5.22 | 3142 | 3142 | 2 | 35 |
| 5 | -47.52 | 62.72 | 44.15 | -3.99 | 7.32 | 4.67 | 3142 | 3142 | 2 | 20 |
| 6 | 53.55 | 37.00 | 81.90 | 5.94 | 13.38 | 6.74 | 3142 | 3142 | 2 | 12 |
| 7 | 25.42 | 22.37 | 46.70 | 3.84 | 8.51 | 3.59 | 3142 | 3142 | 2 | 21 |
| 8 | -28.52 | 50.62 | 45.56 | -3.33 | 10.00 | 5.61 | 3142 | 3142 | 2 | 16 |
| 9 | -78.01 | 67.24 | 69.50 | -4.86 | 13.96 | 5.85 | 3142 | 3142 | 2 | 12 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 9 | | | | | | | | | | 12 |

Muro [Platea]: 40 - Nodi: [67-75-76-4-68]Pann=9Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=14.315 [(4+5)-V-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 20.46 | 24.29 | -23.98 | 1.36 | 3.09 | -1.02 | 3142 | 3142 | 3 | 61 |
| 2 | 4.37 | 1.42 | 14.62 | 0.21 | 1.19 | 0.96 | 3142 | 3142 | (4+5)-VII-4 | >100 |
| 3 | -14.25 | 2.78 | 3.46 | -1.19 | -0.22 | 0.26 | 3142 | 3142 | 3 | >100 |
| 4 | 0.12 | 4.97 | 2.37 | 0.15 | -0.45 | 0.24 | 3142 | 3142 | (4+5)-V-1 | >100 |
| 5 | 2.82 | 6.32 | 2.67 | -0.00 | 1.23 | 0.34 | 3142 | 3142 | (4+5)-III-2 | >100 |
| 6 | 13.07 | 53.03 | 20.57 | 1.23 | 7.21 | 1.98 | 3142 | 3142 | (4+5)-VII-4 | 27 |
| 7 | -3.05 | 22.91 | 0.20 | 0.72 | 4.50 | 1.46 | 3142 | 3142 | (4+5)-VII-4 | 42 |
| 8 | 23.14 | 3.62 | -3.97 | 1.73 | 1.29 | -0.29 | 3142 | 3142 | 3 | >100 |
| 9 | 44.18 | 2.47 | -22.53 | 3.75 | 3.10 | -2.35 | 3142 | 3142 | 3 | 41 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 6 | | | | | | | | | | 27 |

Muro [Platea]: 41 - Nodi: [69-77-78-5-70]Pann=11Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=35.019 [(4+5)-V-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -0.62 | 14.38 | 10.67 | -0.12 | 1.15 | 1.51 | 3142 | 3142 | (4+5)-VI-2 | 96 |
| 2 | 0.65 | -13.43 | 20.48 | 0.09 | -0.68 | 2.08 | 3142 | 3142 | 1 | 94 |
| 3 | -0.09 | 9.95 | 7.55 | 0.09 | 1.28 | 0.48 | 3142 | 3142 | (4+5)-VI-2 | >100 |
| 4 | -2.74 | 26.30 | 3.78 | 0.37 | 1.82 | 0.67 | 3142 | 3142 | 2 | >100 |
| 5 | -6.88 | 44.39 | -0.96 | 0.20 | 3.03 | 0.88 | 3142 | 3142 | 2 | 64 |
| 6 | 6.76 | 60.63 | -7.96 | 0.74 | 5.92 | 0.69 | 3142 | 3142 | 2 | 37 |
| 7 | 24.45 | 68.41 | -14.49 | 3.19 | 8.07 | -0.87 | 3142 | 3142 | 2 | 27 |
| 8 | -40.41 | 62.35 | -7.57 | -2.62 | 7.40 | -0.66 | 3142 | 3142 | 2 | 30 |
| 9 | -28.71 | 59.94 | 9.83 | -3.41 | 5.47 | -0.25 | 3142 | 3142 | 2 | 43 |
| 10 | -6.85 | 38.56 | 12.84 | -1.60 | 2.54 | 0.26 | 3142 | 3142 | 3 | 89 |
| 11 | -8.23 | 49.09 | 5.44 | -0.05 | 3.61 | 0.43 | 3142 | 3142 | 2 | 61 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 7 | | | | | | | | | | 27 |

Muro [Platea]: 42 - Nodi: [68-4-76-77-69]Pann=19Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=26.222 [(4+5)-VII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -2.09 | -8.74 | 17.99 | 0.04 | -1.02 | 0.32 | 3142 | 3142 | 2 | >100 |
| 2 | -1.34 | -9.04 | 15.60 | 0.02 | -0.93 | 0.35 | 3142 | 3142 | 2 | >100 |
| 3 | 0.50 | -15.06 | 13.37 | -0.05 | -1.29 | 0.08 | 3142 | 3142 | 1 | >100 |
| 4 | 0.56 | -16.84 | 13.74 | -0.05 | -1.47 | 0.16 | 3142 | 3142 | 1 | >100 |
| 5 | 0.37 | -16.90 | 13.69 | -0.08 | -1.59 | 0.30 | 3142 | 3142 | 1 | >100 |
| 6 | 0.44 | -13.56 | 11.90 | -0.13 | -2.05 | 0.70 | 3142 | 3142 | 1 | 95 |
| 7 | 1.24 | -13.45 | 18.27 | 0.04 | -2.03 | 2.07 | 3142 | 3142 | 1 | 63 |
| 8 | 1.00 | -17.21 | 14.73 | 0.15 | -1.60 | 2.37 | 3142 | 3142 | 1 | 66 |
| 9 | 1.20 | -17.02 | 12.92 | 0.18 | -1.47 | 2.34 | 3142 | 3142 | 1 | 68 |
| 10 | 1.07 | -15.18 | 11.64 | 0.16 | -1.27 | 2.27 | 3142 | 3142 | 1 | 73 |
| 11 | -2.52 | -9.09 | 16.30 | -0.45 | -0.98 | 2.64 | 3142 | 3142 | 2 | 72 |
| 12 | -2.81 | -9.51 | 17.39 | -0.63 | -1.09 | 3.05 | 3142 | 3142 | 2 | 63 |
| 13 | -3.39 | -8.97 | 19.86 | -0.87 | -0.99 | 3.51 | 3142 | 3142 | 2 | 58 |
| 14 | -23.94 | -3.46 | 28.66 | -1.98 | 0.49 | 3.58 | 3142 | 3142 | 2 | 47 |
| 15 | -26.86 | -17.43 | 39.82 | -1.31 | 1.52 | 3.79 | 3142 | 3142 | 2 | 49 |
| 16 | 8.98 | 25.37 | 21.72 | 1.04 | 4.48 | 1.79 | 3142 | 3142 | (4+5)-VII-1 | 40 |
| 17 | 1.47 | 13.51 | 7.41 | 0.14 | 1.88 | -0.22 | 3142 | 3142 | (4+5)-VII-2 | >100 |
| 18 | -3.58 | -6.39 | 18.95 | -0.10 | -1.50 | -0.15 | 3142 | 3142 | 2 | >100 |
| 19 | -3.44 | 16.20 | 8.10 | -0.20 | 1.72 | 0.96 | 3142 | 3142 | (4+5)-VII-1 | 95 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 16 | | | | | | | | | | 40 |

Muro [Platea]: 43 - Nodi: [72-6-80-81-73]Pann=9Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=16.760 [(4+5)-I-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 5.91 | 31.40 | -11.04 | 0.37 | 3.06 | -1.35 | 3142 | 3142 | (4+5)-V-2 | 57 |
| 2 | 0.58 | -2.33 | 4.56 | 0.45 | 0.81 | -0.02 | 3142 | 3142 | 2 | >100 |
| 3 | -6.47 | 6.19 | 2.29 | -0.18 | -0.53 | 0.28 | 3142 | 3142 | (4+5)-I-1 | >100 |
| 4 | -19.45 | -4.00 | 3.18 | -2.19 | -0.56 | 0.87 | 3142 | 3142 | 2 | 85 |
| 5 | -39.99 | 9.81 | 8.14 | -3.79 | 0.76 | 0.43 | 3142 | 3142 | 3 | 63 |
| 6 | 19.15 | 42.82 | 27.85 | 1.69 | 6.04 | 1.89 | 3142 | 3142 | (4+5)-I-1 | 31 |
| 7 | 1.58 | 21.30 | 4.84 | 1.05 | 3.99 | 0.97 | 3142 | 3142 | (4+5)-I-1 | 51 |
| 8 | -33.39 | 1.40 | 14.45 | -3.46 | 0.21 | 1.53 | 3142 | 3142 | 3 | 53 |
| 9 | -60.91 | 6.53 | 30.57 | -4.63 | 1.12 | 2.27 | 3142 | 3142 | 3 | 39 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 6 | | | | | | | | | | 31 |

Muro [Platea]: 44 - Nodi: [65-72-73-66]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=74.814 [(4+5)-II-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -60.05 | -1.14 | 0.72 | -5.52 | -0.26 | -0.52 | 3142 | 3142 | 2 | 45 |
| 2 | -61.56 | -0.86 | -2.89 | -5.62 | -0.03 | 0.34 | 3142 | 3142 | 2 | 45 |
| 3 | -48.55 | 1.75 | -0.13 | -3.55 | 0.15 | -0.59 | 3142 | 3142 | 2 | 65 |
| 4 | -48.34 | 1.67 | -2.12 | -3.51 | 0.26 | 0.43 | 3142 | 3142 | 2 | 68 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 1 | | | | | | | | | | 45 |

Muro [Platea]: 45 - Nodi: [58-65-66-59]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=175.428 [(4+5)-II-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 69.97 | 0.91 | -6.25 | 6.47 | 0.22 | 0.45 | 3142 | 3142 | 1 | 35 |
| 2 | 70.19 | 0.50 | 1.86 | 6.47 | 0.05 | -0.91 | 3142 | 3142 | 1 | 33 |
| 3 | -69.79 | -1.79 | -2.54 | -6.10 | -0.43 | 0.23 | 3142 | 3142 | 2 | 43 |
| 4 | -69.81 | -1.24 | 1.00 | -6.04 | 0.12 | -0.31 | 3142 | 3142 | 2 | 43 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 2 | | | | | | | | | | 33 |

Muro [Platea]: 46 - Nodi: [51-58-59-52]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=408.808 [(4+5)-I-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 125.86 | 1.45 | -1.49 | 11.42 | 0.57 | 0.61 | 3142 | 3142 | 1 | 19 |
| 2 | 125.80 | 1.06 | 2.61 | 11.34 | -0.13 | -0.37 | 3142 | 3142 | 1 | 20 |
| 3 | 111.88 | 1.80 | -1.79 | 8.47 | 0.32 | 0.44 | 3142 | 3142 | 1 | 26 |
| 4 | 114.41 | 1.48 | 2.38 | 8.60 | -0.27 | -0.59 | 3142 | 3142 | 1 | 25 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 1 | | | | | | | | | | 19 |

Muro [Platea]: 47 - Nodi: [44-51-52-45]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=377.940 [(4+5)-V-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 145.10 | 2.60 | 0.50 | 12.31 | 0.64 | 0.31 | 3142 | 3142 | 1 | 18 |
| 2 | 145.40 | 1.72 | 1.21 | 12.24 | -0.24 | -0.02 | 3142 | 3142 | 1 | 19 |
| 3 | 142.05 | 2.74 | 1.46 | 11.72 | 0.61 | 0.26 | 3142 | 3142 | 1 | 19 |
| 4 | 142.39 | 1.85 | 1.59 | 11.64 | -0.27 | -0.13 | 3142 | 3142 | 1 | 19 |
| Massimi/minimi | | | | | | | | | | |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 1 | | | | | | | | | | 18 |

Muro [Platea]: 48 - Nodi: [37-44-45-38]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=222.644 [(4+5)-VI-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 109.80 | 2.10 | 6.14 | 8.61 | 0.43 | -0.00 | 3142 | 3142 | 1 | 27 |
| 2 | 110.94 | 1.41 | -0.22 | 8.61 | -0.29 | 0.72 | 3142 | 3142 | 1 | 25 |
| 3 | 132.51 | 1.80 | 6.03 | 11.68 | 0.60 | -0.14 | 3142 | 3142 | 1 | 19 |
| 4 | 132.50 | 1.53 | -0.48 | 11.59 | -0.18 | 0.53 | 3142 | 3142 | 1 | 19 |
| Massimi/minimi | | | | | | | | | | |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 19 |

Muro [Platea]: 49 - Nodi: [30-37-38-31]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=117.927 [(4+5)-VI-3] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 22.90 | 0.42 | 5.98 | 1.83 | 0.03 | 0.43 | 3142 | 3142 | (4+5)-II-1 | >100 |
| 2 | 32.43 | 0.31 | -0.72 | 2.07 | -0.12 | 0.82 | 3142 | 3142 | 1 | 87 |
| 3 | 69.32 | 0.83 | 8.43 | 6.41 | 0.26 | -0.07 | 3142 | 3142 | 1 | 37 |
| 4 | 69.02 | 0.64 | -0.10 | 6.36 | 0.02 | 0.87 | 3142 | 3142 | 1 | 34 |
| Massimi/minimi | | | | | | | | | | |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 4 | | | | | | | | | | 34 |

Muro [Platea]: 50 - Nodi: [3-30-31-24]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=40.512 [(4+5)-II-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 15.89 | 1.43 | 7.95 | 1.50 | 0.31 | 0.86 | 3142 | 3142 | (4+5)-II-1 | >100 |
| 2 | 11.04 | 1.74 | 3.74 | 1.06 | -0.01 | 0.15 | 3142 | 3142 | (4+5)-II-1 | >100 |
| 3 | 15.79 | 0.32 | 4.06 | 1.18 | -0.07 | 0.54 | 3142 | 3142 | (4+5)-II-1 | >100 |
| 4 | 15.14 | 0.73 | 1.45 | 1.20 | -0.04 | 0.06 | 3142 | 3142 | (4+5)-VI-3 | >100 |
| Massimi/minimi | | | | | | | | | | |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 1 | | | | | | | | | | >100 |

Muro [Platea]: 51 - Nodi: [15-3-24-16]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND,
Materiale=C35/45,$\zeta_E$=99.851 [(4+5)-V-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 0.61 | 6.28 | 2.88 | -0.08 | 0.56 | 0.20 | 3142 | 3142 | (4+5)-V-3 | >100 |
| 2 | -0.88 | -1.46 | -2.78 | -0.22 | -0.23 | -0.11 | 3142 | 3142 | (4+5)-V-2 | >100 |
| 3 | 9.89 | 7.29 | -6.20 | 1.03 | 0.67 | -0.62 | 3142 | 3142 | (4+5)-VI-2 | >100 |
| 4 | 6.32 | -0.70 | 3.64 | 0.56 | -0.01 | 0.34 | 3142 | 3142 | (4+5)-V-3 | >100 |

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 3142 | | | |
| 1 | | | | | | | | 3142 | | |
| 3 | | | | | | | | | | >100 |

Muro [Platea]: 52 - Nodi: [0-0-0-0]Pann=4Spess.=40 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=305.508 [(4+5)-V-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | -10.65 | -10.83 | 2.40 | -0.71 | -0.72 | 1.10 | 2011 | 2011 | 1 | 72 |
| 2 | -10.65 | -10.83 | -2.40 | -0.71 | -0.72 | -1.10 | 2011 | 2011 | 1 | 72 |
| 3 | -10.65 | -10.83 | -2.40 | -0.71 | -0.72 | -1.10 | 2011 | 2011 | 1 | 72 |
| 4 | -10.65 | -10.83 | 2.40 | -0.71 | -0.72 | 1.10 | 2011 | 2011 | 1 | 72 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 2011 | | | |
| 1 | | | | | | | | 2011 | | |
| 3 | | | | | | | | | | 72 |

Muro : 53 - Nodi: [0-0-88-89]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=142.586 [(4+5)-VI-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 1.52 | -16.42 | 3.99 | -0.02 | -0.14 | -0.02 | 1131 | 1131 | 1 | >100 |
| 2 | -2.12 | -3.08 | 2.73 | 0.05 | 0.30 | -0.07 | 1131 | 1131 | 1 | 87 |
| 3 | 1.52 | -16.42 | -3.99 | -0.02 | -0.14 | 0.02 | 1131 | 1131 | 1 | >100 |
| 4 | -2.12 | -3.08 | -2.73 | 0.05 | 0.30 | 0.07 | 1131 | 1131 | 1 | 87 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 1131 | | | |
| 1 | | | | | | | | 1131 | | |
| 2 | | | | | | | | | | 87 |

Muro : 54 - Nodi: [0-0-90-88]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=116.532 [(4+5)-VII-1] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 1.27 | -9.42 | 2.25 | -0.02 | -0.12 | -0.01 | 1131 | 1131 | (4+5)-V-1 | >100 |
| 2 | 0.34 | -0.22 | 2.70 | 0.03 | 0.26 | -0.06 | 1131 | 1131 | 1 | >100 |
| 3 | 1.27 | -9.42 | -2.25 | -0.01 | -0.12 | 0.01 | 1131 | 1131 | (4+5)-VII-1 | >100 |
| 4 | 0.34 | -0.22 | -2.70 | 0.03 | 0.26 | 0.06 | 1131 | 1131 | 1 | >100 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 1131 | | | |
| 1 | | | | | | | | 1131 | | |
| 2 | | | | | | | | | | >100 |

Muro : 55 - Nodi: [0-0-89-91]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=116.541 [(4+5)-VII-4] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 1.27 | -9.42 | 2.25 | -0.02 | -0.12 | -0.01 | 1131 | 1131 | (4+5)-III-2 | >100 |
| 2 | 0.34 | -0.22 | 2.70 | 0.03 | 0.26 | -0.06 | 1131 | 1131 | 1 | >100 |
| 3 | 1.27 | -9.42 | -2.25 | -0.02 | -0.12 | 0.01 | 1131 | 1131 | (4+5)-VII-4 | >100 |
| 4 | 0.34 | -0.22 | -2.70 | 0.03 | 0.26 | 0.06 | 1131 | 1131 | 1 | >100 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 1131 | | | |
| 1 | | | | | | | | 1131 | | |
| 4 | | | | | | | | | | >100 |

Muro : 56 - Nodi: [0-0-91-90]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45,$\zeta_E$=141.276 [(4+5)-II-2] : **Verificato**

Armatura a maglia doppia

| Pannello | Nx | Ny | Nxy | Mx | My | Mxy | Ax | Ay | C | Cs |
|---|---|---|---|---|---|---|---|---|---|---|
| | kN | kN | kN | kN*m | kN*m | kN*m | mmq | mmq | | |
| 1 | 1.52 | -16.42 | 3.99 | -0.02 | -0.14 | -0.02 | 1131 | 1131 | 1 | >100 |
| 2 | -2.12 | -3.08 | 2.73 | 0.05 | 0.30 | -0.07 | 1131 | 1131 | 1 | 87 |
| 3 | 1.52 | -16.42 | -3.99 | -0.02 | -0.14 | 0.02 | 1131 | 1131 | 1 | >100 |
| 4 | -2.12 | -3.08 | -2.73 | 0.05 | 0.30 | 0.07 | 1131 | 1131 | 1 | 87 |
| | | | | | | | | | | Massimi/minimi |
| 1 | | | | | | | 1131 | | | |
| 1 | | | | | | | | 1131 | | |
| 4 | | | | | | | | | | 87 |

**Verifica Resistenza aste Metalliche**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

**Simbologia**

L [mm] Lunghezza teorica elemento (da nodo a nodo)
Sez. G Sezione Generica (Sigla)
fyd [MPa] Tensione di progetto snervamento acciaio
ft [MPa] Tensione di rottura acciaio
γM Coefficiente di sicurezza acciaio
X [mm] Punto di verifica
N [kN] Sforzo Normale
TY [kN] Taglio dir Y
TZ [kN] Taglio dir Z
MT [kN*m] Momento torcente
MY [kN*m] Momento flettente dir Y
MZ [kN*m] Momento flettente dir Z
MY4 [kN*m] Momento flettente dir Y + N*Δez, per sezioni di classe 4
MZ4 [kN*m] Momento flettente dir Z + N*Δey, per sezioni di classe 4
cls Classe della sezione per la sollecitazione della combinazione corrente
Comb. Combinazione della sollecitazione
Nr [kN] Sforzo Normale resistente
Vyr [kN] Taglio resistente in dir Y
Vzr [kN] Taglio resistente dir Z
Mry [kN*m] Momento flettente resistente dir Y
Mrz [kN*m] Momento flettente resistente dir Z
SF_V Coefficiente di sicurezza taglio
SF_M Coefficiente di sicurezza pressoflessione
SF Coefficiente di sicurezza complessivo (asta verificata se >=1)([1])
$\zeta_E$ Livello di sicurezza sismico definito come rapporto tra l'accelerazione sopportabile e l'accelerazione di progetto, quando richiesto dal criterio di verifica

Gerarchia travi/pilastri (quando richiesto):
NEd [kN] Sforzo Normale di verifica
Npl,Rd [kN] Sforzo Normale resistente (NTC 4.2.4.1.2)
VEdY(*) [kN] Taglio trave dir Y dovuto ai momenti ultimi Mpl,RdZ di estremità (cfr. NTC f.(7.5.6))
Vpl,RdY [kN] Taglio resistente dir Y (NTC 4.2.4.1.2)
VEdZ(*) [kN] Taglio trave dir Z dovuto ai momenti ultimi Mpl,RdY di estremità (cfr. NTC f.(7.5.6))
Vpl,RdZ [kN] Taglio resistente dir Z (NTC 4.2.4.1.2)
MEdY [kN*m] Momento flettente dir Y
Mpl,RdY [kN*m] Momento resistente dir Y (NTC 4.2.4.1.2)
MEdZ [kN*m] Momento flettente dir Z
Mpl,RdZ [kN*m] Momento resistente dir Z (NTC 4.2.4.1.2)

Verifiche Incendio:
Ky fy(T)/fy(20°) fattore riduzione resistenza alla temperatura T
KE E(T)/E(20) fattore riduzione modulo elastico alla temperatura T

Ω* Smplificazione sollecitazioni sismiche (solo per q>1)([3])
Fatt.Ampl.Sisma Fattore moltiplicativo di gruppo per le azioni sismiche (solo se diverso da 1.0)
Note:
([1]): SF rappresenta il minimo tra SF_V ed SF_M dove:
- SF_V = VR/Vd con VR e Vd azione tagliante resistente ed agente
- SF_M = 1/[ N/Nr + MY/Mry + MZ/Mrz], i valori di Mry ed Mrz sono ridotti opportunamente quando Vd > 0.5 Vr

([2]): SF rappresenta il minimo tra i seguenti rapporti:
- MEdY/Mpl,RdY (travi)
- MEdZ/Mpl,RdZ (travi)
- NEd/(0.15*Npl,Rd) (travi)
- VEdY(*)/(0.5*Vpl,RdY) (travi)
- VEdZ(*)/(0.5*Vpl,RdZ) (travi)
- VEdY/(0.5*Vpl,RdY) (pilastri)
- VEdZ/(0.5*Vpl,RdZ) (pilastri)

([3]): Ω*=min(q,1.1*γov*Ω), con Ω secondo NTC 7.5.4.2

**Asta: 113 [107,117]** Sez. G: IPE 300 L=300 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=185024.313 [(4+5)-IV-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 300 | 1 | 0.00 | 4.26 | 0.85 | -0.00 | 0.23 | -0.64 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 300 | 1 | 1819.36 | 626.23 | 501.02 | 212.58 | 42.34 | 3.20 | >100 | 62 | >100 | 62 |

**Asta: 113 [190,191]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=58.828 [(4+5)-III-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 18.84 | -0.13 | 5.28 | -0.01 | -20.39 | -0.07 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 625.81 | 500.68 | 212.58 | 42.34 | 3.20 | 95 | 9.3 | >100 | 9.3 |

**Asta: 113 [191,0]** Sez. G: IPE 300 L=1015 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=54.922 [(4+5)-VIII-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 19.00 | 0.16 | 11.05 | -0.02 | -12.78 | -0.05 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 625.22 | 500.21 | 212.58 | 42.34 | 3.20 | 45 | 14 | >100 | 14 |

**Asta: 113 [204,282]** Sez. G: IPE 300 L=400 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=12.828 [(4+5)-V-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 5.71 | 0.22 | -1.51 | 0.26 | -0.19 | 0.77 | -- | -- | (4+5)-V-4 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 605.61 | 484.52 | 212.58 | 42.34 | 3.20 | >100 | 45 | 12 | 12 |

**Asta: 113 [0,204]** Sez. G: IPE 300 L=891 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=31.484 [(4+5)-V-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 985 | 1 | 19.31 | -0.30 | 16.16 | -0.07 | 14.33 | 0.05 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 985 | 1 | 1819.36 | 621.32 | 497.09 | 212.58 | 42.34 | 3.20 | 31 | 13 | 48 | 13 |

**Asta: 113 [117,101]** Sez. G: IPE 300 L=300 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=13.609 [(4+5)-I-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 5.76 | -0.26 | 1.35 | -0.25 | -0.81 | 0.90 | -- | -- | (4+5)-I-3 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 606.49 | 485.22 | 212.58 | 42.34 | 3.20 | >100 | 35 | 13 | 13 |

**Asta: 113 [101,188]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=30.828 [(4+5)-V-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | 18.27 | 0.17 | -12.82 | 0.06 | -9.21 | -0.07 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 622.21 | 497.80 | 212.58 | 42.34 | 3.20 | 39 | 18 | 57 | 18 |

**Asta: 113 [188,189]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=54.984 [(4+5)-VIII-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | 18.56 | -0.22 | -6.93 | 0.01 | -19.14 | 0.17 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 625.68 | 500.58 | 212.58 | 42.34 | 3.20 | 72 | 9.6 | >100 | 9.6 |

**Asta: 113 [189,190]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=52.648 [(4+5)-VII-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | 18.73 | -0.13 | -0.48 | 0.00 | -20.34 | 0.13 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 626.43 | 501.18 | 212.58 | 42.34 | 3.20 | >100 | 9.2 | >100 | 9.2 |

**Asta: 113 [282,285]** Sez. G: IPE 300 L=400 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=127472.000 [(4+5)-IV-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 0.00 | -5.37 | -1.09 | 0.01 | 0.39 | -1.07 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 625.93 | 500.78 | 212.58 | 42.34 | 3.20 | >100 | 37 | >100 | 37 |

**Asta: 114 [108,118]** Sez. G: IPE 300 L=300 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=134464.000 [(4+5)-VI-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 300 | 1 | 0.00 | 0.15 | 1.55 | -0.00 | 0.44 | -0.02 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 300 | 1 | 1819.36 | 626.58 | 501.30 | 212.58 | 42.34 | 3.20 | >100 | >100 | >100 | >100 |

**Asta: 114 [194,195]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=66.469 [(4+5)-I-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -50.65 | 0.12 | 13.71 | -0.00 | -49.27 | 0.07 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 626.56 | 501.28 | 212.58 | 42.34 | 3.20 | 37 | 3.8 | >100 | 3.8 |

**Asta: 114 [195,0]** Sez. G: IPE 300 L=1015 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=54.453 [(4+5)-II-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -50.12 | 0.16 | 29.40 | -0.00 | -30.35 | 0.04 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 626.55 | 501.27 | 212.58 | 42.34 | 3.20 | 17 | 5.8 | >100 | 5.8 |

**Asta: 114 [274,283]** Sez. G: IPE 300 L=400 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=12.758 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -45.17 | 0.17 | -11.50 | 0.07 | 12.08 | -0.05 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 620.69 | 496.59 | 212.58 | 42.34 | 3.20 | 43 | 12 | 43 | 12 |

**Asta: 114 [0,274]** Sez. G: IPE 300 L=891 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=31.453 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 985 | 1 | -49.28 | 0.06 | 43.32 | -0.03 | 42.00 | -0.06 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 985 | 1 | 1819.36 | 624.16 | 499.36 | 212.58 | 42.34 | 3.20 | 12 | 4.4 | >100 | 4.4 |

**Asta: 114 [118,122]** Sez. G: IPE 300 L=300 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=13.555 [(4+5)-I-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 395 | 1 | -43.37 | -0.10 | 12.02 | -0.07 | 11.66 | 0.11 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 395 | 1 | 1819.36 | 621.07 | 496.89 | 212.58 | 42.34 | 3.20 | 41 | 12 | 46 | 12 |

**Asta: 114 [122,192]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=30.281 [(4+5)-VI-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -52.64 | 0.08 | -37.77 | 0.02 | 34.29 | 0.10 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 624.94 | 499.99 | 212.58 | 42.34 | 3.20 | 13 | 5.2 | >100 | 5.2 |

**Asta: 114 [192,193]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=47.438 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | -51.72 | 0.12 | -20.35 | 0.00 | -44.54 | -0.05 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 626.58 | 501.29 | 212.58 | 42.34 | 3.20 | 25 | 4.2 | >100 | 4.2 |

**Asta: 114 [193,194]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=54.875 [(4+5)-I-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | -51.15 | 0.13 | -2.91 | -0.00 | -49.12 | -0.08 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 626.59 | 501.30 | 212.58 | 42.34 | 3.20 | >100 | 3.8 | >100 | 3.8 |

**Asta: 114 [283,286]** Sez. G: IPE 300 L=400 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=95840.000 [(4+5)-VIII-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 0.00 | -0.19 | -1.98 | 0.00 | 0.75 | -0.04 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 626.57 | 501.29 | 212.58 | 42.34 | 3.20 | >100 | >100 | >100 | >100 |

**Asta: 115 [191,195]** Sez. G: IPE 200 L=5600 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=227.531 [(4+5)-VI-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5600 | 1 | 0.30 | -0.34 | 7.43 | 0.00 | 6.73 | 0.37 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5600 | 1 | 963.03 | 331.61 | 273.09 | 74.65 | 15.09 | 1.40 | 37 | 8.7 | >100 | 8.7 |

**Asta: 115 [195,199]** Sez. G: IPE 200 L=5700 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=227.906 [(4+5)-VI-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 0.33 | 0.30 | -7.52 | -0.00 | 6.74 | 0.24 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 963.03 | 331.63 | 273.11 | 74.65 | 15.09 | 1.40 | 36 | 9.4 | >100 | 9.4 |

**Asta: 116 [190,194]** Sez. G: IPE 200 L=5600 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=97.813 [(4+5)-V-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5600 | 1 | -0.01 | -0.39 | 8.25 | 0.00 | 7.00 | 0.41 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5600 | 1 | 963.03 | 331.78 | 273.23 | 74.65 | 15.09 | 1.40 | 33 | 8.3 | >100 | 8.3 |

**Asta: 116 [194,198]** Sez. G: IPE 200 L=5700 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=100.094 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -0.01 | 0.34 | -8.36 | -0.00 | 7.01 | 0.27 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 963.03 | 331.79 | 273.24 | 74.65 | 15.09 | 1.40 | 33 | 9.0 | >100 | 9.0 |

**Asta: 117 [189,193]** Sez. G: IPE 200 L=5600 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=50.195 [(4+5)-V-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5600 | 1 | 0.10 | -0.38 | 8.29 | -0.00 | 7.25 | 0.41 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5600 | 1 | 963.03 | 331.70 | 273.17 | 74.65 | 15.09 | 1.40 | 33 | 8.1 | >100 | 8.1 |

**Asta: 117 [193,197]** Sez. G: IPE 200 L=5700 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=51.359 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 0.11 | 0.34 | -8.40 | 0.00 | 7.26 | 0.27 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 963.03 | 331.70 | 273.17 | 74.65 | 15.09 | 1.40 | 33 | 8.7 | >100 | 8.7 |

**Asta: 118 [188,192]** Sez. G: IPE 200 L=5600 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=40.086 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5600 | 1 | -0.45 | -0.21 | 7.92 | -0.00 | 7.77 | 0.24 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5600 | 1 | 963.03 | 331.58 | 273.07 | 74.65 | 15.09 | 1.40 | 34 | 8.3 | >100 | 8.3 |

**Asta: 118 [192,196]** Sez. G: IPE 200 L=5700 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=40.648 [(4+5)-V-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -0.42 | 0.16 | -8.03 | 0.00 | 7.80 | 0.12 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 963.03 | 331.59 | 273.07 | 74.65 | 15.09 | 1.40 | 34 | 8.9 | >100 | 8.9 |

**Asta: 119 [109,119]** Sez. G: IPE 300 L=300 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=177952.000 [(4+5)-II-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 300 | 1 | 0.00 | -4.41 | 0.87 | 0.00 | 0.24 | 0.66 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 300 | 1 | 1819.36 | 626.22 | 501.01 | 212.58 | 42.34 | 3.20 | >100 | 60 | >100 | 60 |

**Asta: 119 [198,199]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=58.703 [(4+5)-I-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 18.43 | 0.30 | 5.52 | 0.01 | -20.76 | 0.14 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 625.82 | 500.69 | 212.58 | 42.34 | 3.20 | 91 | 9.0 | >100 | 9.0 |

**Asta: 119 [199,200]** Sez. G: IPE 300 L=1015 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=53.813 [(4+5)-VI-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 18.54 | -0.04 | 11.43 | 0.02 | -12.82 | 0.05 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 625.24 | 500.23 | 212.58 | 42.34 | 3.20 | 44 | 14 | >100 | 14 |

**Asta: 119 [206,284]** Sez. G: IPE 300 L=400 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=12.813 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 6.00 | -0.21 | -1.55 | -0.27 | -0.21 | -0.79 | -- | -- | (4+5)-V-1 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 605.33 | 484.30 | 212.58 | 42.34 | 3.20 | >100 | 44 | 12 | 12 |

**Asta: 119 [200,206]** Sez. G: IPE 300 L=891 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=31.469 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 985 | 1 | 18.82 | 0.45 | 16.64 | 0.01 | 15.13 | -0.19 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 985 | 1 | 1819.36 | 625.85 | 500.71 | 212.58 | 42.34 | 3.20 | 30 | 12 | >100 | 12 |

**Asta: 119 [119,103]** Sez. G: IPE 300 L=300 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=13.617 [(4+5)-I-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 5.98 | 0.26 | 1.39 | 0.25 | -0.84 | -0.89 | -- | -- | (4+5)-I-2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 606.49 | 485.22 | 212.58 | 42.34 | 3.20 | >100 | 35 | 13 | 13 |

**Asta: 119 [103,196]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=30.859 [(4+5)-VII-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | 17.99 | -0.09 | -13.01 | -0.02 | -9.64 | 0.12 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 625.16 | 500.16 | 212.58 | 42.34 | 3.20 | 38 | 17 | >100 | 17 |

**Asta: 119 [196,197]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=53.891 [(4+5)-VI-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | 18.25 | 0.39 | -6.98 | -0.01 | -19.65 | -0.21 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 625.69 | 500.58 | 212.58 | 42.34 | 3.20 | 72 | 9.3 | >100 | 9.3 |

**Asta: 119 [197,198]** Sez. G: IPE 300 L=1354 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=52.664 [(4+5)-I-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 1354 | 1 | 18.36 | 0.28 | -0.38 | -0.00 | -20.71 | -0.23 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 1354 | 1 | 1819.36 | 626.42 | 501.17 | 212.58 | 42.34 | 3.20 | >100 | 8.9 | >100 | 8.9 |

**Asta: 119 [284,287]** Sez. G: IPE 300 L=400 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=131744.000 [(4+5)-VI-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 0.00 | 5.56 | -1.11 | -0.01 | 0.40 | 1.11 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1819.36 | 625.90 | 500.76 | 212.58 | 42.34 | 3.20 | >100 | 36 | >100 | 36 |

**Asta: 120 [0,0]** Sez. G: IPE 200 L=5600 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=226.781 [(4+5)-I-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5600 | 1 | -0.43 | -0.16 | 6.32 | 0.00 | 6.34 | 0.19 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5600 | 1 | 963.03 | 331.57 | 273.06 | 74.65 | 15.09 | 1.40 | 43 | 10 | >100 | 10 |

**Asta: 120 [0,200]** Sez. G: IPE 200 L=5700 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=230.563 [(4+5)-I-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -0.53 | 0.12 | -6.41 | -0.00 | 6.37 | 0.08 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 963.03 | 331.58 | 273.07 | 74.65 | 15.09 | 1.40 | 43 | 11 | >100 | 11 |

**Asta: 121 [282,283]** Sez. G: IPE 200 L=5600 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=358.938 [(4+5)-I-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5600 | 1 | 0.02 | -0.00 | 4.62 | 0.00 | 5.54 | 0.01 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5600 | 1 | 963.03 | 331.67 | 273.14 | 74.65 | 15.09 | 1.40 | 59 | 13 | >100 | 13 |

**Asta: 121 [283,284]** Sez. G: IPE 200 L=5700 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=359.563 [(4+5)-III-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -0.02 | 0.00 | -4.68 | -0.00 | 5.57 | 0.01 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 963.03 | 331.68 | 273.15 | 74.65 | 15.09 | 1.40 | 58 | 13 | >100 | 13 |

**Asta: 122 [117,118]** Sez. G: IPE 200 L=5600 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=384.063 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5600 | 1 | -0.03 | 0.00 | 5.09 | -0.00 | 5.96 | -0.01 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5600 | 1 | 963.03 | 331.67 | 273.15 | 74.65 | 15.09 | 1.40 | 54 | 12 | >100 | 12 |

**Asta: 122 [118,119]** Sez. G: IPE 200 L=5700 mm Crit.: Acciaio_FlessTors γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=385.125 [(4+5)-V-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | 0.02 | -0.00 | -5.16 | 0.00 | 5.99 | -0.01 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 963.03 | 331.68 | 273.15 | 74.65 | 15.09 | 1.40 | 53 | 12 | >100 | 12 |

**Asta: 123 [2,122]** Sez. G: HE 200 A L=5000 mm Crit.: Acciaio_Pressflessione γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=9.070 [(4+5)-III-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5000 | 1 | -53.57 | -0.18 | -6.34 | 0.00 | -22.38 | 0.06 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5000 | 1 | 1820.01 | 780.79 | 352.94 | 145.32 | 68.92 | 3.51 | 56 | 5.4 | >100 | 5.4 |

**Asta: 124 [1,101]** Sez. G: HE 200 A L=5000 mm Crit.: Acciaio_Pressflessione γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=8.844 [(4+5)-VII-4] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -8.49 | -1.33 | -1.87 | 0.00 | 3.91 | -6.57 | -- | -- | (4+5)-VII-4 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1820.01 | 780.68 | 352.89 | 145.32 | 68.92 | 3.51 | >100 | 7.9 | >100 | 7.9 |

**Asta: 125 [3,103]** Sez. G: HE 200 A L=5000 mm Crit.: Acciaio_Pressflessione γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=8.828 [(4+5)-V-2] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -8.61 | 1.33 | -1.89 | -0.00 | 3.99 | 6.54 | -- | -- | (4+5)-V-2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1820.01 | 780.68 | 352.89 | 145.32 | 68.92 | 3.51 | >100 | 7.9 | >100 | 7.9 |

**Asta: 126 [4,204]** Sez. G: HE 200 A L=5550 mm Crit.: Acciaio_Pressflessione γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=9.039 [(4+5)-VII-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -9.91 | 1.22 | 1.75 | 0.00 | -4.16 | 6.53 | -- | -- | (4+5)-VII-1 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1820.01 | 780.76 | 352.93 | 145.32 | 68.92 | 3.51 | >100 | 7.8 | >100 | 7.8 |

**Asta: 127 [5,274]** Sez. G: HE 200 A L=5550 mm Crit.: Acciaio_Pressflessione γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=9.172 [(4+5)-V-1] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 5550 | 1 | -50.94 | -0.11 | 7.26 | 0.00 | 25.61 | 0.08 | -- | -- | 2 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 5550 | 1 | 1820.01 | 780.79 | 352.94 | 145.32 | 68.92 | 3.51 | 49 | 4.9 | >100 | 4.9 |

**Asta: 128 [6,206]** Sez. G: HE 200 A L=5550 mm Crit.: Acciaio_Pressflessione γM=1.05 fyk/γM=338.1 MPa ft=510.0 MPa,$\zeta_E$=9.031 [(4+5)-V-3] **:Verificato**

| X | cls | N | TY | TZ | MT | MY | MZ | My4 | Mz4 | Comb. |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | |
| 0 | 1 | -10.05 | -1.21 | 1.79 | -0.00 | -4.27 | -6.49 | -- | -- | (4+5)-V-3 |

| X | cls | Nr | Vyr | Vzr | Mry | Mrz | MTrd | SF_V. | SF_M | SF_Mt | SF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | kN | kN | kN | kN*m | kN*m | kN*m | | | | |
| 0 | 1 | 1820.01 | 780.76 | 352.93 | 145.32 | 68.92 | 3.51 | >100 | 7.7 | >100 | 7.7 |

**Verifiche stato limite di esercizio**

**Verifica dei Muri (Stati limite esercizio)**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

**Simbologia**

| | |
|---|---|
| P. | Numero pannello |
| Nx [MPa] | Sforzo normale in direzione x |
| Ny [MPa] | Sforzo normale in direzione y |
| Nxy [MPa] | Sforzo tagliante in direzione xy |
| Mx [kN] | Momento flettente in direzione x |
| My [kN] | Momento flettente in direzione y |
| Mxy [kN] | Momento torcente |
| Afx [mmq/m] | Area acciaio in direzione x per metro lineare |
| Afy [mmq/m] | Area acciaio in direzione y per metro lineare |
| σc [MPa] | Tensione nel calcestruzzo compresso |
| σf [MPa] | Tensione nell'acciaio |
| σct [MPa] | Tensione nel calcestruzzo teso |
| σsct [MPa] | Tensione nel calcestruzzo teso (quando richiesto dalla verifica) |
| σsca [MPa] | Tensione ammissibile nel calcestruzzo |
| σsfa [MPa] | Tensione ammissibile nell'acciaio |
| σscta [MPa] | Tensione ammissibile nel calcestruzzo teso |

Cbc Combinazione generatore della tensione nel cls compresso
Cbct Combinazione generatore della tensione nel cls teso
Cbf Combinazione generatore della tensione nell'acciaio
Cb Combinazione
σsfmed [MPa] Tensione media dell'acciaio
Wd [mm] Apertura delle fessure
Wk [mm] Apertura caratteristica delle fessure
Wamm_Freq [mm] Apertura ammissibile delle fessure per combinazione Frequente
Wamm_Qp [mm] Apertura ammissibile delle fessure per combinazione Quasi Permanente
Wamm_Rara [mm] Apertura ammissibile delle fessure per combinazione Rara
Cs Coefficiente di sicurezza definito come minimo di σAmm/σ tra acciaio e calcestruzzo oppure Wamm/Wk

Muro [Platea]: 1 - Nodi: [10-20-1-11]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 0.2 | 6 | 7 | Si | >100 |
| 4 | 3142 | 3142 | 0.0 | 2.6 | 6 | 6 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |
| 4 | 3142 | 3142 | 0.0 | 1.6 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 4 | 0.0 | 0.0 | 0.0 | 0.36 | 0.21 | 0.12 | 1.6 | 0.002 | 0.002 | 9(Qp) | Si | >100 |
| 4 | 0.0 | 0.0 | 0.0 | 0.36 | 0.21 | 0.12 | 1.6 | 0.002 | 0.002 | 8(Fr) | Si | >100 |

Muro [Platea]: 2 - Nodi: [11-1-21-12]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 13 | 3142 | 3142 | -0.1 | 0.1 | 7 | 7 | Si | >100 |
| 9 | 3142 | 3142 | -0.0 | 0.5 | 6 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 14 | 3142 | 3142 | -0.1 | 0.0 | 9 | 9 | Si | >100 |
| 9 | 3142 | 3142 | -0.0 | 0.7 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | 0.0 | -0.0 | -0.0 | 0.02 | 0.01 | 0.08 | 0.5 | 0.001 | 0.001 | 9(Qp) | Si | >100 |
| 1 | 0.0 | -0.0 | -0.0 | 0.02 | 0.01 | 0.08 | 0.5 | 0.001 | 0.001 | 8(Fr) | Si | >100 |

Muro [Platea]: 3 - Nodi: [12-21-2-13]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 5 | 3142 | 3142 | -0.0 | 0.6 | 7 | 7 | Si | >100 |
| 8 | 3142 | 3142 | -0.0 | 9.2 | 7 | 7 | Si | 39 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.1 | 0.0 | 9 | 9 | Si | >100 |
| 8 | 3142 | 3142 | -0.0 | 10.9 | 9 | 9 | Si | 33 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 8 | 0.0 | 0.0 | 0.0 | 0.64 | 2.44 | 1.20 | 10.9 | 0.013 | 0.013 | 9(Qp) | Si | 15 |
| 8 | 0.0 | 0.0 | 0.0 | 0.64 | 2.44 | 1.20 | 10.9 | 0.013 | 0.013 | 8(Fr) | Si | 23 |

Muro [Platea]: 4 - Nodi: [13-2-23-14]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 7.5 | 6 | 7 | Si | 48 |
| 3 | 3142 | 3142 | 0.0 | 11.5 | 6 | 7 | Si | 31 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 12.6 | 9 | 9 | Si | 29 |
| 3 | 3142 | 3142 | 0.0 | 15.3 | 9 | 9 | Si | 24 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | 0.0 | 0.1 | -0.0 | 0.87 | 3.02 | -0.33 | 15.3 | 0.019 | 0.019 | 9(Qp) | Si | 10 |
| 3 | 0.0 | 0.1 | -0.0 | 0.87 | 3.02 | -0.33 | 15.3 | 0.019 | 0.019 | 8(Fr) | Si | 15 |

Muro [Platea]: 5 - Nodi: [14-23-3-15]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 5 | 3142 | 3142 | -0.0 | 2.5 | 7 | 6 | Si | >100 |
| 3 | 3142 | 3142 | -0.0 | 6.7 | 7 | 6 | Si | 54 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 20 | 3142 | 3142 | -0.0 | 1.1 | 9 | 9 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 10.6 | 9 | 9 | Si | 34 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | -0.0 | 0.0 | -0.0 | 0.01 | 2.03 | 0.07 | 10.6 | 0.014 | 0.014 | 9(Qp) | Si | 15 |
| 1 | -0.0 | 0.0 | -0.0 | 0.01 | 2.03 | 0.07 | 10.6 | 0.014 | 0.014 | 8(Fr) | Si | 22 |

Muro [Platea]: 6 - Nodi: [1-26-27-21]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 10 | 3142 | 3142 | -0.1 | 0.2 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 7 | 3142 | 3142 | -0.1 | -0.1 | 9 | 9 | Si | >100 |
| 10 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 10 | -0.0 | -0.0 | 0.0 | -0.92 | -0.64 | -0.20 | 0.1 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 10 | -0.0 | -0.0 | 0.0 | -0.92 | -0.64 | -0.20 | 0.1 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 7 - Nodi: [21-27-28-2]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 5 | 3142 | 3142 | -0.0 | 1.1 | 7 | 7 | Si | >100 |
| 4 | 3142 | 3142 | -0.0 | 7.0 | 7 | 7 | Si | 52 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 5 | 3142 | 3142 | -0.1 | 0.3 | 9 | 9 | Si | >100 |

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| 4 | 3142 | 3142 | -0.0 | 9.5 | 9 | 9 | Si | 38 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 4 | -0.0 | 0.0 | 0.0 | -0.29 | 2.52 | 0.35 | 9.5 | 0.010 | 0.010 | 9(Qp) | Si | 19 |
| 4 | -0.0 | 0.0 | 0.0 | -0.29 | 2.52 | 0.35 | 9.5 | 0.010 | 0.010 | 8(Fr) | Si | 29 |

Muro [Platea]: 8 - Nodi: [2-28-29-23]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 3.3 | 7 | 7 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 8.3 | 7 | 7 | Si | 43 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 12.8 | 9 | 9 | Si | 28 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | -0.0 | 0.1 | -0.0 | -0.53 | 2.39 | 0.03 | 12.8 | 0.017 | 0.017 | 9(Qp) | Si | 12 |
| 1 | -0.0 | 0.1 | -0.0 | -0.53 | 2.39 | 0.03 | 12.8 | 0.017 | 0.017 | 8(Fr) | Si | 18 |

Muro [Platea]: 9 - Nodi: [23-29-30-3]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 15 | 3142 | 3142 | -0.0 | 3.9 | 7 | 6 | Si | 93 |
| 2 | 3142 | 3142 | -0.0 | 9.8 | 7 | 6 | Si | 37 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.0 | 4.2 | 9 | 9 | Si | 87 |
| 11 | 3142 | 3142 | -0.0 | 10.7 | 9 | 9 | Si | 34 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 11 | -0.0 | 0.0 | 0.0 | 0.09 | 2.05 | 0.19 | 10.7 | 0.014 | 0.014 | 9(Qp) | Si | 15 |
| 11 | -0.0 | 0.0 | 0.0 | 0.09 | 2.05 | 0.19 | 10.7 | 0.014 | 0.014 | 8(Fr) | Si | 22 |

Muro [Platea]: 10 - Nodi: [20-25-26-1]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.1 | 0.1 | 7 | 7 | Si | >100 |
| 2 | 3142 | 3142 | -0.0 | 0.3 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |
| 2 | 3142 | 3142 | -0.0 | 0.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | -0.0 | 0.0 | -0.0 | -0.31 | 0.03 | 0.13 | 0.2 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 1 | -0.0 | 0.0 | -0.0 | -0.31 | 0.03 | 0.13 | 0.2 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 11 - Nodi: [26-33-34-27]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.1 | 0.0 | 7 | 7 | Si | >100 |
| 15 | 3142 | 3142 | -0.1 | 0.1 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.1 | -0.0 | 9 | 9 | Si | >100 |
| 15 | 3142 | 3142 | -0.1 | 0.0 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 15 | -0.0 | -0.0 | 0.0 | -0.66 | -1.61 | 1.00 | 0.0 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 15 | -0.0 | -0.0 | 0.0 | -0.66 | -1.61 | 1.00 | 0.0 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 12 - Nodi: [28-35-36-29]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.1 | 2.1 | 7 | 7 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 2.9 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | 0.0 | 11.2 | 9 | 9 | Si | 32 |
| 4 | 3142 | 3142 | 0.0 | 14.1 | 9 | 9 | Si | 26 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | 0.0 | 0.1 | 0.0 | 1.56 | 2.45 | 0.43 | 13.9 | 0.018 | 0.018 | 9(Qp) | Si | 11 |
| 3 | 0.0 | 0.1 | 0.0 | 1.56 | 2.45 | 0.43 | 13.9 | 0.018 | 0.018 | 8(Fr) | Si | 16 |

Muro [Platea]: 13 - Nodi: [29-36-37-30]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 15 | 3142 | 3142 | -0.1 | 11.8 | 7 | 6 | Si | 30 |
| 11 | 3142 | 3142 | -0.1 | 14.4 | 7 | 6 | Si | 25 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 12 | 3142 | 3142 | -0.1 | 11.6 | 9 | 9 | Si | 31 |
| 16 | 3142 | 3142 | -0.1 | 16.2 | 9 | 9 | Si | 22 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 20 | 0.1 | 0.0 | 0.0 | 3.50 | 0.15 | 1.18 | 14.7 | 0.017 | 0.017 | 9(Qp) | Si | 12 |
| 20 | 0.1 | 0.0 | 0.0 | 3.50 | 0.15 | 1.18 | 14.7 | 0.017 | 0.017 | 8(Fr) | Si | 17 |

Muro [Platea]: 14 - Nodi: [27-34-35-28]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 5 | 3142 | 3142 | -0.1 | 0.4 | 7 | 6 | Si | >100 |
| 8 | 3142 | 3142 | -0.0 | 4.5 | 7 | 7 | Si | 79 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 5 | 3142 | 3142 | -0.1 | 0.3 | 9 | 9 | Si | >100 |
| 8 | 3142 | 3142 | -0.0 | 12.0 | 9 | 9 | Si | 30 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 8 | 0.0 | 0.0 | 0.0 | 1.17 | 3.34 | 0.60 | 12.0 | 0.013 | 0.013 | 9(Qp) | Si | 16 |
| 8 | 0.0 | 0.0 | 0.0 | 1.17 | 3.34 | 0.60 | 12.0 | 0.013 | 0.013 | 8(Fr) | Si | 23 |

Muro [Platea]: 15 - Nodi: [25-32-33-26]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.1 | -0.0 | 7 | 7 | Si | >100 |
| 2 | 3142 | 3142 | -0.1 | 0.0 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 0.0 | 9 | 9 | Si | >100 |
| 2 | 3142 | 3142 | -0.0 | 0.0 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 2 | -0.0 | -0.0 | 0.0 | -1.06 | -0.11 | 0.08 | 0.0 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 2 | -0.0 | -0.0 | 0.0 | -1.06 | -0.11 | 0.08 | 0.0 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 16 - Nodi: [33-40-41-34]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 8 | 3142 | 3142 | -0.2 | 0.1 | 7 | 7 | Si | >100 |
| 16 | 3142 | 3142 | -0.1 | 1.1 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 7 | 3142 | 3142 | -0.0 | -0.1 | 9 | 9 | Si | >100 |
| 5 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 5 | -0.0 | -0.0 | 0.0 | -1.00 | -0.95 | 0.77 | 0.1 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 5 | -0.0 | -0.0 | 0.0 | -1.00 | -0.95 | 0.77 | 0.1 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 17 - Nodi: [35-42-43-36]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.2 | 13.1 | 7 | 6 | Si | 28 |
| 4 | 3142 | 3142 | -0.2 | 15.4 | 7 | 6 | Si | 23 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 22.5 | 9 | 9 | Si | 16 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | 0.1 | 0.0 | 0.1 | 3.24 | 1.24 | 1.41 | 21.6 | 0.030 | 0.030 | 9(Qp) | Si | 6.7 |
| 1 | 0.1 | 0.0 | 0.1 | 3.24 | 1.24 | 1.41 | 21.6 | 0.030 | 0.030 | 8(Fr) | Si | 10 |

Muro [Platea]: 18 - Nodi: [36-43-44-37]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 14 | 3142 | 3142 | -0.2 | 18.7 | 7 | 6 | Si | 19 |

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| 16 | 3142 | 3142 | -0.2 | 19.9 | 7 | 6 | Si | 18 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | 0.0 | 17.4 | 9 | 9 | Si | 21 |
| 16 | 3142 | 3142 | 0.0 | 24.9 | 9 | 9 | Si | 14 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 16 | 0.1 | 0.0 | 0.0 | 4.96 | 1.29 | 0.89 | 24.9 | 0.031 | 0.031 | 9(Qp) | Si | 6.3 |
| 16 | 0.1 | 0.0 | 0.0 | 4.96 | 1.29 | 0.89 | 24.9 | 0.031 | 0.031 | 8(Fr) | Si | 9.5 |

Muro [Platea]: 19 - Nodi: [32-39-40-33]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.1 | -0.0 | 7 | 7 | Si | >100 |
| 2 | 3142 | 3142 | -0.1 | 0.0 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 0.0 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 2 | -0.0 | -0.0 | 0.0 | -1.19 | -0.08 | 0.39 | 0.0 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 2 | -0.0 | -0.0 | 0.0 | -1.19 | -0.08 | 0.39 | 0.0 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 20 - Nodi: [40-47-48-41]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.1 | 0.6 | 7 | 7 | Si | >100 |
| 14 | 3142 | 3142 | -0.1 | 1.5 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |
| 5 | 3142 | 3142 | -0.0 | 0.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 5 | -0.0 | -0.0 | 0.0 | -0.99 | -0.60 | 0.78 | 0.2 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 5 | -0.0 | -0.0 | 0.0 | -0.99 | -0.60 | 0.78 | 0.2 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 21 - Nodi: [42-49-50-43]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.3 | 5.6 | 7 | 6 | Si | 64 |
| 2 | 3142 | 3142 | -0.3 | 13.0 | 7 | 6 | Si | 28 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 13.1 | 9 | 9 | Si | 27 |
| 2 | 3142 | 3142 | 0.0 | 20.2 | 9 | 9 | Si | 18 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 2 | 0.1 | 0.0 | 0.0 | 3.72 | 0.62 | 1.56 | 20.2 | 0.026 | 0.026 | 9(Qp) | Si | 7.6 |

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 0.1 | 0.0 | 0.0 | 3.72 | 0.62 | 1.56 | 20.2 | 0.026 | 0.026 | 8(Fr) | Si | 11 |

Muro [Platea]: 22 - Nodi: [43-50-51-44]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.3 | 10.0 | 7 | 6 | Si | 36 |
| 6 | 3142 | 3142 | -0.2 | 16.0 | 7 | 6 | Si | 23 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | 0.0 | 20.1 | 9 | 9 | Si | 18 |
| 6 | 3142 | 3142 | 0.0 | 21.3 | 9 | 9 | Si | 17 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | 0.1 | 0.0 | 0.0 | 4.40 | 0.84 | 2.37 | 20.1 | 0.024 | 0.024 | 9(Qp) | Si | 8.2 |
| 1 | 0.1 | 0.0 | 0.0 | 4.40 | 0.84 | 2.37 | 20.1 | 0.024 | 0.024 | 8(Fr) | Si | 12 |

Muro [Platea]: 23 - Nodi: [46-53-54-47]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.1 | 0.1 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 2 | -0.0 | -0.0 | 0.0 | -0.88 | -0.07 | 0.70 | 0.1 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 2 | -0.0 | -0.0 | 0.0 | -0.88 | -0.07 | 0.70 | 0.1 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 24 - Nodi: [57-64-65-58]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 6 | 3142 | 3142 | -0.3 | 0.6 | 7 | 7 | Si | 66 |
| 11 | 3142 | 3142 | -0.1 | 5.4 | 7 | 6 | Si | 67 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.2 | 1.0 | 9 | 9 | Si | >100 |
| 11 | 3142 | 3142 | -0.1 | 4.1 | 9 | 9 | Si | 88 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | -0.0 | 0.0 | 0.0 | -1.20 | 1.44 | 2.20 | 3.9 | 0.004 | 0.004 | 9(Qp) | Si | 50 |
| 1 | -0.0 | 0.0 | 0.0 | -1.20 | 1.44 | 2.20 | 3.9 | 0.004 | 0.004 | 8(Fr) | Si | 74 |

Muro [Platea]: 25 - Nodi: [54-61-62-55]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 7 | 3142 | 3142 | -0.1 | 6.5 | 7 | 7 | Si | 55 |
| 8 | 3142 | 3142 | -0.1 | 9.0 | 7 | 7 | Si | 40 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 0.3 | 9 | 9 | Si | >100 |
| 8 | 3142 | 3142 | -0.0 | 4.4 | 9 | 9 | Si | 83 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 8 | 0.0 | 0.0 | 0.0 | 0.92 | 1.10 | 1.32 | 4.4 | 0.005 | 0.005 | 9(Qp) | Si | 37 |
| 8 | 0.0 | 0.0 | 0.0 | 0.92 | 1.10 | 1.32 | 4.4 | 0.005 | 0.005 | 8(Fr) | Si | 56 |

Muro [Platea]: 26 - Nodi: [56-63-64-57]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.2 | 0.2 | 7 | 7 | Si | 94 |
| 1 | 3142 | 3142 | -0.2 | 7.1 | 7 | 6 | Si | 50 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.1 | 5.8 | 9 | 9 | Si | 63 |
| 4 | 3142 | 3142 | -0.1 | 8.4 | 9 | 9 | Si | 43 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 4 | -0.0 | 0.0 | 0.0 | -1.98 | 1.46 | 2.04 | 8.4 | 0.011 | 0.011 | 9(Qp) | Si | 18 |
| 4 | -0.0 | 0.0 | 0.0 | -1.98 | 1.46 | 2.04 | 8.4 | 0.011 | 0.011 | 8(Fr) | Si | 27 |

Muro [Platea]: 27 - Nodi: [55-62-63-56]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.1 | 2.6 | 7 | 7 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 10.3 | 7 | 7 | Si | 35 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 8 | 3142 | 3142 | -0.1 | 7.4 | 9 | 9 | Si | 48 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 8 | -0.0 | 0.0 | 0.1 | -1.36 | 1.91 | 2.29 | 7.4 | 0.008 | 0.008 | 9(Qp) | Si | 24 |
| 8 | -0.0 | 0.0 | 0.1 | -1.36 | 1.91 | 2.29 | 7.4 | 0.008 | 0.008 | 8(Fr) | Si | 36 |

Muro [Platea]: 28 - Nodi: [39-46-47-40]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.1 | 0.0 | 7 | 7 | Si | >100 |
| 1 | 3142 | 3142 | -0.1 | 0.0 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 0.0 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 2 | -0.0 | -0.0 | 0.0 | -1.06 | -0.07 | 0.59 | 0.0 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 2 | -0.0 | -0.0 | 0.0 | -1.06 | -0.07 | 0.59 | 0.0 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 29 - Nodi: [49-56-57-50]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.4 | 1.1 | 7 | 6 | Si | 54 |
| 4 | 3142 | 3142 | -0.3 | 3.0 | 7 | 6 | Si | 72 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.1 | 1.1 | 9 | 9 | Si | >100 |
| 2 | 3142 | 3142 | -0.0 | 4.3 | 9 | 9 | Si | 84 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | 0.0 | 0.0 | 0.0 | 0.94 | -0.36 | 0.77 | 2.5 | 0.003 | 0.003 | 9(Qp) | Si | 76 |
| 1 | 0.0 | 0.0 | 0.0 | 0.94 | -0.36 | 0.77 | 2.5 | 0.003 | 0.003 | 8(Fr) | Si | >100 |

Muro [Platea]: 30 - Nodi: [50-57-58-51]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.3 | 3.2 | 7 | 6 | Si | 69 |
| 16 | 3142 | 3142 | -0.3 | 3.6 | 7 | 6 | Si | 70 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 6 | 3142 | 3142 | -0.1 | 6.9 | 9 | 9 | Si | 53 |
| 4 | 3142 | 3142 | -0.1 | 7.0 | 9 | 9 | Si | 51 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 4 | 0.0 | 0.0 | 0.0 | 3.27 | 0.62 | 1.62 | 7.0 | 0.007 | 0.007 | 9(Qp) | Si | 27 |
| 4 | 0.0 | 0.0 | 0.0 | 3.27 | 0.62 | 1.62 | 7.0 | 0.007 | 0.007 | 8(Fr) | Si | 41 |

Muro [Platea]: 31 - Nodi: [47-54-55-48]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.1 | 4.6 | 7 | 7 | Si | 79 |
| 15 | 3142 | 3142 | -0.1 | 4.6 | 7 | 7 | Si | 78 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 0.0 | 9 | 9 | Si | >100 |
| 16 | 3142 | 3142 | 0.0 | 6.2 | 9 | 9 | Si | 58 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 16 | 0.0 | 0.0 | 0.0 | 1.42 | 0.89 | 1.22 | 6.2 | 0.007 | 0.007 | 9(Qp) | Si | 27 |
| 16 | 0.0 | 0.0 | 0.0 | 1.42 | 0.89 | 1.22 | 6.2 | 0.007 | 0.007 | 8(Fr) | Si | 41 |

Muro [Platea]: 32 - Nodi: [53-60-61-54]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.1 | 0.1 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 0.0 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | -0.0 | 0.0 | 0.0 | -0.63 | -0.02 | 0.01 | 0.0 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 1 | -0.0 | 0.0 | 0.0 | -0.63 | -0.02 | 0.01 | 0.0 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 33 - Nodi: [64-71-72-65]Pann=20Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 9 | 3142 | 3142 | -0.2 | 1.3 | 7 | 7 | Si | >100 |
| 11 | 3142 | 3142 | -0.1 | 6.3 | 6 | 6 | Si | 57 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 9 | 3142 | 3142 | -0.1 | 0.5 | 9 | 9 | Si | >100 |
| 1 | 3142 | 3142 | -0.1 | 4.6 | 9 | 9 | Si | 79 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 11 | -0.0 | 0.0 | 0.0 | -0.47 | 1.50 | 1.45 | 4.1 | 0.004 | 0.004 | 9(Qp) | Si | 46 |
| 11 | -0.0 | 0.0 | 0.0 | -0.47 | 1.50 | 1.45 | 4.1 | 0.004 | 0.004 | 8(Fr) | Si | 70 |

Muro [Platea]: 34 - Nodi: [62-69-70-63]Pann=8Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.1 | 2.3 | 7 | 7 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 6.7 | 7 | 7 | Si | 54 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.1 | 8.4 | 9 | 9 | Si | 43 |
| 8 | 3142 | 3142 | -0.0 | 9.5 | 9 | 9 | Si | 38 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 8 | -0.0 | 0.0 | 0.0 | -0.77 | 1.69 | 1.28 | 9.5 | 0.012 | 0.012 | 9(Qp) | Si | 16 |
| 8 | -0.0 | 0.0 | 0.0 | -0.77 | 1.69 | 1.28 | 9.5 | 0.012 | 0.012 | 8(Fr) | Si | 24 |

Muro [Platea]: 35 - Nodi: [61-68-69-62]Pann=16Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.1 | 0.5 | 7 | 7 | Si | >100 |
| 8 | 3142 | 3142 | -0.0 | 6.3 | 7 | 7 | Si | 58 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.0 | 0.3 | 9 | 9 | Si | >100 |
| 16 | 3142 | 3142 | -0.0 | 3.1 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 16 | -0.0 | 0.0 | 0.0 | -0.02 | 0.63 | 1.33 | 3.1 | 0.004 | 0.004 | 9(Qp) | Si | 50 |
| 16 | -0.0 | 0.0 | 0.0 | -0.02 | 0.63 | 1.33 | 3.1 | 0.004 | 0.004 | 8(Fr) | Si | 75 |

Muro [Platea]: 36 - Nodi: [63-70-71-64]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| 2 | 3142 | 3142 | -0.1 | 0.3 | 7 | 7 | Si | >100 |
| 3 | 3142 | 3142 | -0.1 | 2.5 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.1 | 7.1 | 9 | 9 | Si | 51 |
| 3 | 3142 | 3142 | -0.1 | 9.4 | 9 | 9 | Si | 38 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | -0.0 | 0.0 | 0.0 | -1.06 | 2.03 | 1.46 | 9.4 | 0.012 | 0.012 | 9(Qp) | Si | 17 |
| 3 | -0.0 | 0.0 | 0.0 | -1.06 | 2.03 | 1.46 | 9.4 | 0.012 | 0.012 | 8(Fr) | Si | 26 |

Muro [Platea]: 37 - Nodi: [60-67-68-61]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.1 | 0.1 | 7 | 7 | Si | >100 |
| 4 | 3142 | 3142 | -0.0 | 0.4 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |
| 4 | 3142 | 3142 | -0.0 | 0.5 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 4 | -0.0 | 0.0 | 0.0 | -0.22 | 0.13 | 0.80 | 0.5 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 4 | -0.0 | 0.0 | 0.0 | -0.22 | 0.13 | 0.80 | 0.5 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 38 - Nodi: [71-79-80-6-72]Pann=23Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.1 | 0.5 | 7 | 7 | Si | >100 |
| 9 | 3142 | 3142 | -0.0 | 1.9 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 15 | 3142 | 3142 | -0.1 | 0.3 | 9 | 9 | Si | >100 |
| 21 | 3142 | 3142 | -0.0 | 4.6 | 9 | 9 | Si | 79 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 21 | -0.0 | 0.0 | 0.0 | 0.24 | 1.82 | 0.45 | 4.6 | 0.005 | 0.005 | 9(Qp) | Si | 42 |
| 21 | -0.0 | 0.0 | 0.0 | 0.24 | 1.82 | 0.45 | 4.6 | 0.005 | 0.005 | 8(Fr) | Si | 63 |

Muro [Platea]: 39 - Nodi: [70-5-78-79-71]Pann=9Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 6 | 3142 | 3142 | -0.1 | 23.5 | 7 | 6 | Si | 15 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 6 | 3142 | 3142 | -0.1 | 16.0 | 9 | 9 | Si | 23 |
| 9 | 3142 | 3142 | -0.1 | 18.1 | 9 | 9 | Si | 20 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 6 | 0.0 | 0.0 | 0.1 | 1.85 | 6.06 | 2.23 | 16.0 | 0.017 | 0.017 | 9(Qp) | Si | 12 |
| 6 | 0.0 | 0.0 | 0.1 | 1.85 | 6.06 | 2.23 | 16.0 | 0.017 | 0.017 | 8(Fr) | Si | 18 |

Muro [Platea]: 40 - Nodi: [67-75-76-4-68]Pann=9Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 6 | 3142 | 3142 | -0.1 | 3.4 | 6 | 7 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 5.9 | 7 | 6 | Si | 61 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 9 | 3142 | 3142 | -0.0 | 5.6 | 9 | 9 | Si | 65 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 9 | 0.0 | -0.0 | -0.0 | 1.07 | 1.00 | -0.36 | 5.6 | 0.007 | 0.007 | 9(Qp) | Si | 28 |
| 9 | 0.0 | -0.0 | -0.0 | 1.07 | 1.00 | -0.36 | 5.6 | 0.007 | 0.007 | 8(Fr) | Si | 42 |

Muro [Platea]: 41 - Nodi: [69-77-78-5-70]Pann=11Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 9 | 3142 | 3142 | -0.0 | 6.5 | 7 | 7 | Si | 56 |
| 7 | 3142 | 3142 | -0.0 | 7.9 | 7 | 7 | Si | 46 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 9 | 3142 | 3142 | -0.0 | 10.7 | 9 | 9 | Si | 34 |
| 7 | 3142 | 3142 | 0.0 | 11.9 | 9 | 9 | Si | 30 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 7 | 0.0 | 0.1 | 0.0 | 0.87 | 2.05 | 0.44 | 11.9 | 0.016 | 0.016 | 9(Qp) | Si | 13 |
| 7 | 0.0 | 0.1 | 0.0 | 0.87 | 2.05 | 0.44 | 11.9 | 0.016 | 0.016 | 8(Fr) | Si | 19 |

Muro [Platea]: 42 - Nodi: [68-4-76-77-69]Pann=19Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 15 | 3142 | 3142 | -0.0 | 0.9 | 6 | 7 | Si | >100 |
| 6 | 3142 | 3142 | -0.0 | 5.0 | 7 | 7 | Si | 73 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 16 | 3142 | 3142 | -0.1 | 3.1 | 9 | 9 | Si | >100 |
| 6 | 3142 | 3142 | -0.0 | 3.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 6 | -0.0 | 0.0 | 0.0 | -0.06 | 0.26 | 0.45 | 3.2 | 0.005 | 0.005 | 9(Qp) | Si | 39 |
| 6 | -0.0 | 0.0 | 0.0 | -0.06 | 0.26 | 0.45 | 3.2 | 0.005 | 0.005 | 8(Fr) | Si | 59 |

Muro [Platea]: 43 - Nodi: [72-6-80-81-73]Pann=9Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| 5 | 3142 | 3142 | -0.1 | 1.3 | 7 | 7 | Si | >100 |
| 6 | 3142 | 3142 | -0.0 | 4.3 | 7 | 7 | Si | 83 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 5 | 3142 | 3142 | -0.0 | 0.9 | 9 | 9 | Si | >100 |
| 6 | 3142 | 3142 | -0.0 | 3.8 | 9 | 9 | Si | 94 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 6 | 0.0 | 0.0 | 0.0 | 0.82 | 1.03 | 0.56 | 3.8 | 0.005 | 0.005 | 9(Qp) | Si | 43 |
| 6 | 0.0 | 0.0 | 0.0 | 0.82 | 1.03 | 0.56 | 3.8 | 0.005 | 0.005 | 8(Fr) | Si | 64 |

Muro [Platea]: 44 - Nodi: [65-72-73-66]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.1 | 0.2 | 7 | 7 | Si | >100 |
| 4 | 3142 | 3142 | -0.1 | 0.3 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 3142 | 3142 | -0.1 | -0.0 | 9 | 9 | Si | >100 |
| 4 | 3142 | 3142 | -0.1 | 0.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 4 | -0.0 | 0.0 | -0.0 | -1.33 | 0.10 | 0.24 | 0.2 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 4 | -0.0 | 0.0 | -0.0 | -1.33 | 0.10 | 0.24 | 0.2 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 45 - Nodi: [58-65-66-59]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.3 | 0.1 | 7 | 7 | Si | 74 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.1 | 0.1 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | -0.1 | -0.0 | -0.0 | -3.05 | -0.27 | 0.35 | 0.1 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 3 | -0.1 | -0.0 | -0.0 | -3.05 | -0.27 | 0.35 | 0.1 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro [Platea]: 46 - Nodi: [51-58-59-52]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.3 | 0.2 | 7 | 6 | Si | 68 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.0 | 0.9 | 9 | 9 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 4.7 | 9 | 9 | Si | 76 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | 0.0 | -0.0 | 0.0 | 1.41 | 0.10 | 0.63 | 2.6 | 0.002 | 0.002 | 9(Qp) | Si | 95 |
| 1 | 0.0 | -0.0 | 0.0 | 1.41 | 0.10 | 0.63 | 2.6 | 0.002 | 0.002 | 8(Fr) | Si | >100 |

Muro [Platea]: 47 - Nodi: [44-51-52-45]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.3 | 5.4 | 7 | 6 | Si | 67 |
| 2 | 3142 | 3142 | -0.3 | 13.2 | 7 | 6 | Si | 27 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 18.6 | 9 | 9 | Si | 19 |
| 2 | 3142 | 3142 | 0.0 | 18.6 | 9 | 9 | Si | 19 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 2 | 0.1 | 0.0 | 0.0 | 3.81 | -0.01 | -0.32 | 18.6 | 0.023 | 0.023 | 9(Qp) | Si | 8.6 |
| 2 | 0.1 | 0.0 | 0.0 | 3.81 | -0.01 | -0.32 | 18.6 | 0.023 | 0.023 | 8(Fr) | Si | 13 |

Muro [Platea]: 48 - Nodi: [37-44-45-38]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.2 | 16.8 | 7 | 6 | Si | 21 |
| 4 | 3142 | 3142 | -0.2 | 16.9 | 7 | 6 | Si | 21 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 20.6 | 9 | 9 | Si | 17 |
| 4 | 3142 | 3142 | -0.0 | 22.0 | 9 | 9 | Si | 16 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 4 | 0.1 | 0.0 | 0.0 | 3.98 | -0.14 | 0.04 | 22.0 | 0.029 | 0.029 | 9(Qp) | Si | 6.9 |
| 4 | 0.1 | 0.0 | 0.0 | 3.98 | -0.14 | 0.04 | 22.0 | 0.029 | 0.029 | 8(Fr) | Si | 10 |

Muro [Platea]: 49 - Nodi: [30-37-38-31]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.1 | 10.7 | 7 | 6 | Si | 33 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 3142 | 3142 | -0.0 | 15.0 | 9 | 9 | Si | 24 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | 0.1 | 0.0 | 0.0 | 2.87 | 0.12 | 0.49 | 15.0 | 0.019 | 0.019 | 9(Qp) | Si | 10 |
| 3 | 0.1 | 0.0 | 0.0 | 2.87 | 0.12 | 0.49 | 15.0 | 0.019 | 0.019 | 8(Fr) | Si | 16 |

Muro [Platea]: 50 - Nodi: [3-30-31-24]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 0.0 | 7 | 7 | Si | >100 |
| 1 | 3142 | 3142 | -0.0 | 0.6 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 0.7 | 9 | 9 | Si | >100 |

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| 3 | 3142 | 3142 | 0.0 | 2.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | 0.0 | 0.0 | 0.0 | 0.37 | 0.07 | 0.49 | 2.2 | 0.003 | 0.003 | 9(Qp) | Si | 68 |
| 3 | 0.0 | 0.0 | 0.0 | 0.37 | 0.07 | 0.49 | 2.2 | 0.003 | 0.003 | 8(Fr) | Si | >100 |

Muro [Platea]: 51 - Nodi: [15-3-24-16]Pann=4Spess.=50 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 3142 | 3142 | -0.0 | 0.4 | 7 | 6 | Si | >100 |
| 3 | 3142 | 3142 | 0.0 | 2.1 | 6 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 3142 | 3142 | -0.0 | 0.1 | 9 | 9 | Si | >100 |
| 3 | 3142 | 3142 | 0.0 | 2.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | 0.0 | 0.0 | 0.0 | 0.49 | 0.34 | -0.02 | 2.2 | 0.003 | 0.003 | 9(Qp) | Si | 77 |
| 3 | 0.0 | 0.0 | 0.0 | 0.49 | 0.34 | -0.02 | 2.2 | 0.003 | 0.003 | 8(Fr) | Si | >100 |

Muro [Platea]: 52 - Nodi: [0-0-0-0]Pann=4Spess.=40 cm, Terreno=Terreno1, ,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 2011 | 2011 | -0.0 | -0.0 | 6 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 2011 | 2011 | -0.0 | -0.1 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | -0.0 | -0.0 | 0.0 | -0.52 | -0.53 | 0.80 | 0.0 | 0.000 | 0.000 | 9(Qp) | Si | >100 |
| 1 | -0.0 | -0.0 | 0.0 | -0.52 | -0.53 | 0.80 | 0.0 | 0.000 | 0.000 | 8(Fr) | Si | >100 |

Muro : 53 - Nodi: [0-0-88-89]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 2 | 1131 | 1131 | -0.1 | 0.4 | 6 | 7 | Si | >100 |
| 3 | 1131 | 1131 | -0.0 | 0.9 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 1131 | 1131 | -0.1 | 1.2 | 9 | 9 | Si | >100 |
| 3 | 1131 | 1131 | -0.1 | 1.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | 0.0 | -0.1 | -0.0 | -0.01 | -0.10 | 0.01 | 1.2 | 0.002 | 0.002 | 9(Qp) | Si | 88 |
| 3 | 0.0 | -0.1 | -0.0 | -0.01 | -0.10 | 0.01 | 1.2 | 0.002 | 0.002 | 8(Fr) | Si | >100 |

Muro : 54 - Nodi: [0-0-90-88]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 1131 | 1131 | -0.0 | 1.0 | 7 | 7 | Si | >100 |
| 3 | 1131 | 1131 | -0.0 | 1.0 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 1 | 1131 | 1131 | -0.1 | 1.5 | 9 | 9 | Si | >100 |
| 2 | 1131 | 1131 | -0.1 | 1.8 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 3 | 0.0 | -0.1 | -0.0 | -0.01 | -0.08 | 0.00 | 1.5 | 0.003 | 0.003 | 9(Qp) | Si | 65 |
| 3 | 0.0 | -0.1 | -0.0 | -0.01 | -0.08 | 0.00 | 1.5 | 0.003 | 0.003 | 8(Fr) | Si | 98 |

Muro : 55 - Nodi: [0-0-89-91]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 1131 | 1131 | -0.0 | 1.0 | 7 | 7 | Si | >100 |
| 1 | 1131 | 1131 | -0.0 | 1.0 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 1131 | 1131 | -0.1 | 1.5 | 9 | 9 | Si | >100 |
| 4 | 1131 | 1131 | -0.1 | 1.8 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | 0.0 | -0.1 | 0.0 | -0.01 | -0.08 | -0.00 | 1.5 | 0.003 | 0.003 | 9(Qp) | Si | 65 |
| 1 | 0.0 | -0.1 | 0.0 | -0.01 | -0.08 | -0.00 | 1.5 | 0.003 | 0.003 | 8(Fr) | Si | 98 |

Muro : 56 - Nodi: [0-0-91-90]Pann=4Spess.=20 cm, Terreno=--,Criterio=CLS_Muri_ND, Materiale=C35/45

Armatura a maglia doppia, Stampa elementi piu' gravosi
Combinazione Rara: σca[MPa]=22.4 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 4 | 1131 | 1131 | -0.1 | 0.4 | 6 | 7 | Si | >100 |
| 1 | 1131 | 1131 | -0.0 | 0.9 | 7 | 7 | Si | >100 |

Combinazione QP: σca[MPa]=16.8 σfa[MPa]=360.0

| P. | Afx | Afy | σc | σf | Cbc | Cbf | Ver | Cs |
|---|---|---|---|---|---|---|---|---|
| | mmq/m | mmq/m | MPa | MPa | | | | |
| 3 | 1131 | 1131 | -0.1 | 1.2 | 9 | 9 | Si | >100 |
| 1 | 1131 | 1131 | -0.1 | 1.2 | 9 | 9 | Si | >100 |

Verifica aperture fessure:Wamm_Freq[mm]=0.300 Wamm_Qp[mm]=0.200

| P. | Nx | Ny | Nxy | Mx | My | Mxy | σfmed | Wd | Wk | Cb | Ver | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MPa | MPa | MPa | kN | kN | kN | MPa | mm | mm | | | |
| 1 | 0.0 | -0.1 | 0.0 | -0.01 | -0.10 | -0.01 | 1.2 | 0.002 | 0.002 | 9(Qp) | Si | 88 |
| 1 | 0.0 | -0.1 | 0.0 | -0.01 | -0.10 | -0.01 | 1.2 | 0.002 | 0.002 | 8(Fr) | Si | >100 |

**Verifica spostamenti verticali delle aste in Acciaio secondo NTC 2018**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

**Simbologia:**
L Luce della trave a cui appartiene l'asta
δc Monta iniziale della trave
x Ascissa, nel sistema locale dell'asta, corrispondente allo spostamento massimo
Comb. Combinazione/i di carico Rara/e
δmax Spostamento nello stato finale depurato della monta iniziale (positivo se diretto verso il basso)
δ2 Spostamento elastico dovuto ai soli carichi variabili (positivo se diretto verso il basso)
L/k: Valore limite
N.b. La verifica è soddisfatta se il valore assoluto degli spostamenti è inferiore al limite

**Travata: 113 [107,101]:** L=695 mm, Modello =Sbalzo, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/125.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 0 | 6 | -0.0 | 5.6 | >100 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/150.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 0 | 6 | -0.0 | 4.6 | >100 |

**Travata: 114 [108,122]:** L=695 mm, Modello =Sbalzo, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/125.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 0 | 6 | 0.0 | 5.6 | >100 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/150.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 0 | 6 | 0.0 | 4.6 | >100 |

**Travata: 119 [109,103]:** L=695 mm, Modello =Sbalzo, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/125.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 0 | 6 | -0.0 | 5.6 | >100 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/150.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 0 | 6 | -0.0 | 4.6 | >100 |

**Travata: 113 [101,204]:** L=7415 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 3655 | 6 | 3.6 | 29.7 | 8.2 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 3655 | 6 | 0.3 | 24.7 | 82 |

**Travata: 114 [122,274]:** L=7415 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 3655 | 6 | 8.2 | 29.7 | 3.6 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 3655 | 6 | 0.7 | 24.7 | 34 |

**Travata: 115 [191,199]:** L=11300 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 4.2 | 45.2 | 11 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 0.4 | 37.7 | 91 |

**Travata: 119 [103,206]:** L=7415 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 3655 | 6 | 3.7 | 29.7 | 8.0 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 3520 | 6 | 0.3 | 24.7 | 82 |

**Travata: 119 [206,287]:** L=800 mm, Modello =Sbalzo, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/125.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 800 | 6 | -0.0 | 6.4 | >100 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/150.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 800 | 6 | -0.0 | 5.3 | >100 |

**Travata: 114 [274,286]:** L=800 mm, Modello =Sbalzo, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/125.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 800 | 6 | 0.1 | 6.4 | >100 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/150.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 800 | 6 | 0.0 | 5.3 | >100 |

**Travata: 113 [204,285]:** L=800 mm, Modello =Sbalzo, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/125.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 800 | 6 | -0.0 | 6.4 | >100 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/150.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 800 | 6 | -0.0 | 5.3 | >100 |

**Travata: 120 [0,200]:** L=11300 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 8450 | 6 | 2.8 | 45.2 | 16 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 0.2 | 37.7 | >100 |

**Travata: 121 [282,284]:** L=11296 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 9018 | 6 | 1.3 | 45.2 | 35 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 5600 | 6 | -0.0 | 37.7 | >100 |

**Travata: 122 [117,119]:** L=11296 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 9018 | 6 | 1.5 | 45.2 | 30 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 9018 | 6 | 0.0 | 37.7 | >100 |

**Travata: 118 [188,196]:** L=11300 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 8450 | 6 | 3.8 | 45.2 | 12 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 0.3 | 37.7 | >100 |

**Travata: 117 [189,197]:** L=11300 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 5.1 | 45.2 | 8.9 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 0.5 | 37.7 | 75 |

**Travata: 116 [190,198]:** L=11300 mm, Modello =Appoggiata, Crit.Prog: Acciaio_FlessTors, δc = 0 mm: **Verificato**

Verifica spostamento nello stato finale (§4.2.4.2.1 - NTC)

| x | Comb. | δmax | L/250.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 5.4 | 45.2 | 8.4 |

Verifica spostamento elastico dovuto ai soli carichi variabili (§4.2.4.2.1 - NTC)

| x | Comb. | δ2 | L/300.00 | Cs |
|---|---|---|---|---|
| mm | | mm | mm | |
| 7880 | 6 | 0.5 | 37.7 | 71 |

**Verifica spostamenti laterali delle colonne in acciaio secondo NTC 2018**
Scenario di calcolo: **ScenarioNT_ 2018 A2_SLV_SLD_STR_GEO**

**Simbologia:**

| | |
|---|---|
| Interp. | Interpiano |
| NS e NI | Nodi giacenti sulla stessa verticale, appartenenti all'impalcato j e i, rispettivamente, dell'interpiano i-j |
| Nodo | Nodo/i dell'ultimo impalcato |
| Comb | Combinazione/i di carico Rara/e più gravosa/e |
| SpostX sup. | Spostamento lungo x del nodo superiore per la combinazione Comb. |
| SpostY sup. | Spostamento lungo y del nodo superiore per la combinazione Comb. |
| SpostX inf. | Spostamento lungo x del nodo inferiore per la combinazione Comb. |
| SpostY inf. | Spostamento lungo y del nodo inferiore per la combinazione Comb. |
| δ | Spostamento/i orizzontale/i relativo/i di piano |
| Δ | Spostamento/i orizzontale/i totale/i |
| L/k | Limite di deformabilità (Tab. 4.2.XIII, §4.2.4.2.2 - NTC 2018) |

Verifica spostamenti orizzontali relativi di piano (§4.2.4.2.2 - NTC)

| Interp. | NS | NI. | Comb. | SpostX sup. | SpostY sup. | SpostX inf. | SpostY inf. | δ | h/300 | Verifica |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mm | mm | mm | mm | mm | mm | |
| 0-1 | 122 | 2 | 6 | -2.2 | 0.8 | 0.0 | 0.0 | 2.3 | 16.7 | Si |
| 0-1 | 101 | 1 | 6 | -2.0 | 0.8 | 0.0 | 0.0 | 2.2 | 16.7 | Si |
| 0-1 | 103 | 3 | 6 | -2.3 | 0.8 | 0.0 | 0.0 | 2.5 | 16.7 | Si |
| 0-2 | 204 | 4 | 6 | -2.8 | 1.2 | 0.0 | 0.0 | 3.1 | 18.5 | Si |
| 0-2 | 274 | 5 | 6 | -3.0 | 1.3 | 0.0 | 0.0 | 3.2 | 18.5 | Si |
| 0-2 | 206 | 6 | 6 | -3.1 | 1.2 | 0.0 | 0.0 | 3.3 | 18.5 | Si |

Verifica spostamenti orizzontali in sommità (§4.2.4.2.2 - NTC)

| Nodo | Comb. | SpostX | SpostY | Δ | H/500 | Verifica |
|---|---|---|---|---|---|---|
| | | mm | mm | mm | mm | |
| 204 | 6 | -2.8 | 1.2 | 3.1 | 11.1 | Si |
| 274 | 6 | -3.0 | 1.3 | 3.2 | 11.1 | Si |
| 206 | 6 | -3.1 | 1.2 | 3.3 | 11.1 | Si |