



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
www.bfpgroup.net - info@bfpgroup.net  
tel. (+39) 0805046361 - fax (+39) 0805619384  
AZIENDA CON SISTEMA GESTIONE  
UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

1 di/of 501

TITLE: Calcoli preliminari edificio SS

AVAILABLE LANGUAGE: IT

# CALCOLI PRELIMINARI EDIFICIO SS

## CANDELA

File: GRE.EEC.R.25.IT.W.15001.00.103.00 CALCOLI PRELIMINARI EDIFICIO SS.docx

|             |                   |                        |                 |                   |                 |
|-------------|-------------------|------------------------|-----------------|-------------------|-----------------|
|             |                   |                        |                 |                   |                 |
|             |                   |                        |                 |                   |                 |
|             |                   |                        |                 |                   |                 |
| <b>00</b>   | <b>18/12/2020</b> | <b>Prima EMISSIONE</b> | BFP<br>Tedesco  | BFP<br>Miglionico | BFP<br>Biscotti |
| <b>REV.</b> | <b>DATE</b>       | <b>DESCRIPTION</b>     | <b>PREPARED</b> | <b>VERIFIED</b>   | <b>APPROVED</b> |

### GRE VALIDATION

|               |             |              |
|---------------|-------------|--------------|
| MIRRA         | PANSINI     | PANSINI      |
| COLLABORATORS | VERIFIED BY | VALIDATED BY |

PROJECT / PLANT

\*\*\*\*\*

### GRE CODE

| GROUP      | FUNCTION   | TYPE     | ISSUER   | COUNTRY  | TEC      | PLANT    | SYSTEM   | PROGRESSIVE | REVISION |          |          |          |          |          |          |          |          |          |          |
|------------|------------|----------|----------|----------|----------|----------|----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>GRE</b> | <b>EEC</b> | <b>R</b> | <b>2</b> | <b>5</b> | <b>I</b> | <b>T</b> | <b>W</b> | <b>1</b>    | <b>5</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b> | <b>3</b> | <b>0</b> | <b>0</b> |

CLASSIFICATION

UTILIZATION SCOPE

This document is property of Enel Green Power S.p.A. It is strictly forbidden to reproduce this document, in whole or in part, and to provide to others any related information without the previous written consent by Enel Green Power S.p.A.

## INDICE

|                                                            |     |
|------------------------------------------------------------|-----|
| 1. PREMESSA .....                                          | 3   |
| 2. NORMATIVA DI RIFERIMENTO .....                          | 3   |
| 3. DESCRIZIONE DELL'OPERA .....                            | 3   |
| 4. ANALISI GEOTECNICA .....                                | 6   |
| 4.1. Caratteristiche del terreno di fondazione .....       | 6   |
| 5. ANALISI DEI CARICHI.....                                | 6   |
| 5.1. AZIONE SISMICA .....                                  | 6   |
| 5.2. AZIONE DEL VENTO .....                                | 8   |
| 5.3. AZIONE DELLA NEVE .....                               | 12  |
| 5.4. CARICHI PERMANENTI STRUTTURALI E NON STRUTTURALI..... | 13  |
| 5.5. CARICHI VARIABILI.....                                | 14  |
| 6. QUALITÀ DEI MATERIALI.....                              | 14  |
| 7. MODELLAZIONE E CRITERI DI VERIFICA .....                | 16  |
| 7.1. MODELLI UTILIZZATI PER IL CALCOLO .....               | 16  |
| 7.2. ORIGINE E CARATTERISTICHE DEI CODICI DI CALCOLO.....  | 17  |
| 7.3. TIPO DI ANALISI SVOLTE.....                           | 17  |
| 7.4. PRESENTAZIONE SINTETICA DEI RISULTATI .....           | 18  |
| 7.5. RIEPILOGO PARAMETRI SISMICI.....                      | 18  |
| 7.6. DIMENSIONAMENTO MINIMO DELLE ARMATURE .....           | 19  |
| 7.7. SISTEMI DI RIFERIMENTO.....                           | 20  |
| 7.8. CRITERI DI PROGETTO .....                             | 21  |
| 7.9. AZIONI SULLA STRUTTURA .....                          | 38  |
| 7.10. PROGETTO E VERIFICA DELLA STRUTTURA .....            | 184 |
| 7.11. VERIFICA SPOSTAMENTI.....                            | 233 |
| 8. VERIFICA PORTANZA DELLE FONDAZIONI.....                 | 240 |
| 8.1. NORMATIVA DI RIFERIMENTO .....                        | 240 |
| 8.2. CAPACITÀ PORTANTE DI FONDAZIONI SUPERFICIALI .....    | 240 |
| 8.3. CALCOLO DEI CEDIMENTI .....                           | 243 |

## 1. PREMESSA

La presente relazione di calcolo strutturale preliminare dell'edificio costituente la sottostazione utente di trasformazione AT/MT è parte integrante del progetto definitivo per la realizzazione di un parco eolico proposto dalla società Enel Green Power S.p.A. (di seguito chiamata EGP), con sede legale in Viale Regina Margherita n. 125, Roma.

La proposta progettuale è finalizzata alla realizzazione di un impianto eolico per la produzione di energia elettrica da fonte rinnovabile eolica, costituito da 8 aerogeneratori, ciascuno di potenza nominale pari a 6.0 MW per una potenza complessiva del parco pari a 48.0 MW, da realizzarsi nel territorio comunale di Candela con opere di connessione alla RTN nel comune di Ascoli Satriano, in Provincia di Foggia (FG), dove sarà ubicata la sottostazione utente di trasformazione AT/MT, in posizione adiacente alla sottostazione elettrica HV 380/150kV Terna Substation.

La seguente relazione di calcolo riporta i risultati dei calcoli statici relativi alle cabine elettriche composte da un piano in elevazione, oltre alla fondazione, che costituiscono la sottostazione utente di trasformazione AT/MT di Erchie così come ottenuti dal tecnico responsabile dei calcoli mediante l'utilizzo del programma CDSWin prodotto da S.T.S. S.r.l Software Tecnico Scientifico S.r.l, release 2020, numero licenza 34981.

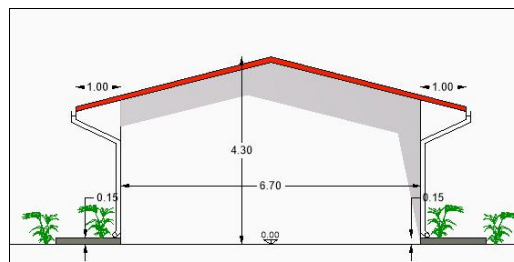
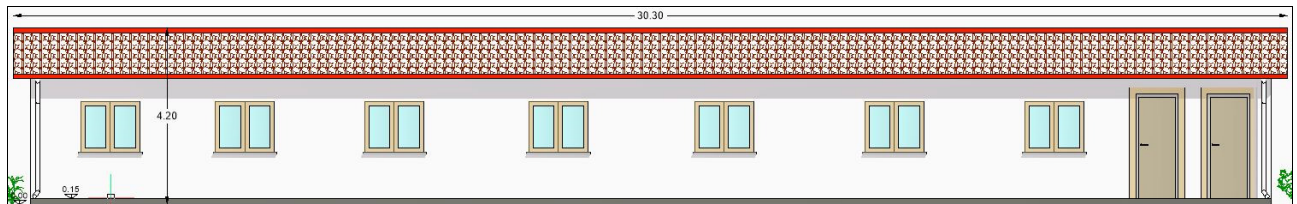
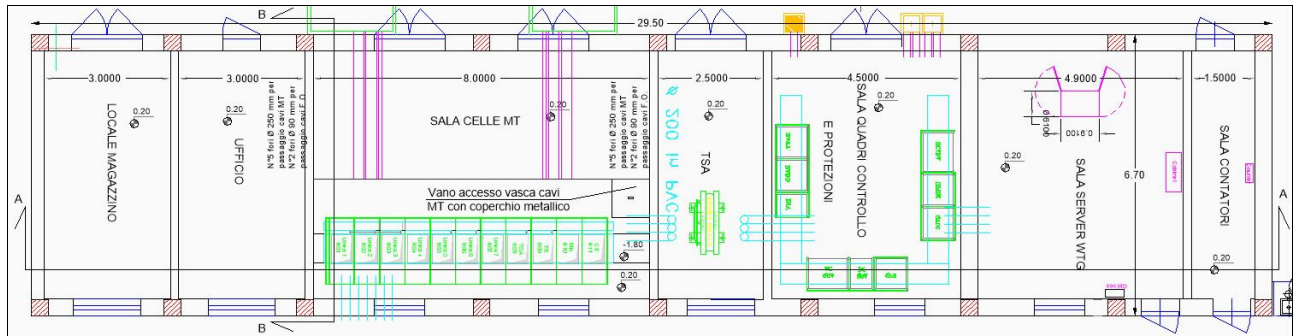
## 2. NORMATIVA DI RIFERIMENTO

Le fasi di analisi e verifica della struttura sono state condotte in accordo alle seguenti disposizioni normative:

- **Legge 5 novembre 1971 n. 1086 (G. U. 21 dicembre 1971 n. 321)**, Norme per la disciplina delle opere di conglomerato cementizio armato normale e precompresso ed a struttura metallica;
- **Legge 2 febbraio 1974 n. 64 (G. U. 21 marzo 1974 n. 76)**, Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche;
- **D. M. Infrastrutture Trasporti 17/01/2018 (G.U. 20/02/2018 n. 42 Suppl. Ord.)**, Aggiornamento delle Norme tecniche per le Costruzioni;
- **Circolare 11 febbraio 2019– n. 7/2019 del C.S.LL.PP**, Istruzioni per l'applicazione dell'aggiornamento delle "Norme tecniche per le costruzioni" di cui al decreto ministeriale 17 gennaio 2018.
- **Deliberazione della Giunta regionale 2 marzo 2004, n. 153** L.R. 20/00 - O.P.C.M. 3274/03 – Individuazione delle zone sismiche del territorio regionale e delle tipologie di edifici ed opere strategici e rilevanti - Approvazione del programma temporale e delle indicazioni per le verifiche tecniche da effettuarsi sugli stessi.

## 3. DESCRIZIONE DELL'OPERA

L'edificio oggetto della presente relazione di calcolo, ospiterà gli uffici e le apparecchiature asseveranti l'impianto. Di seguito si riportano pianta e prospetti.



**Figura 1: Pianta e prospetti dell'edificio**

La struttura sarà realizzata in cemento armato completamente gettato in opera avente altezza massima di 4,20 m fuori terra. Saranno realizzati in totale due telai a otto campate in senso longitudinale e nove telai a una campata in senso trasversale.

Dall'analisi del terreno di fondazione e dei carichi gravanti su di esso dovuti alla struttura, si è optato per fondazioni di tipo diretto, in particolare, platee di fondazione sotto tutta la sagoma dell'edificio. La vasca raccolta cavi MT sarà parte della struttura di fondazione e sarà realizzata con setti controterra su una platea di fondazione.

La copertura avrà un'inclinazione di 7° e sarà realizzata con solai in laterocemento con spessore al finito di 25 cm.

Nelle figure seguenti si mostra il modello tridimensionale della struttura in oggetto ed un particolare del solaio di copertura.

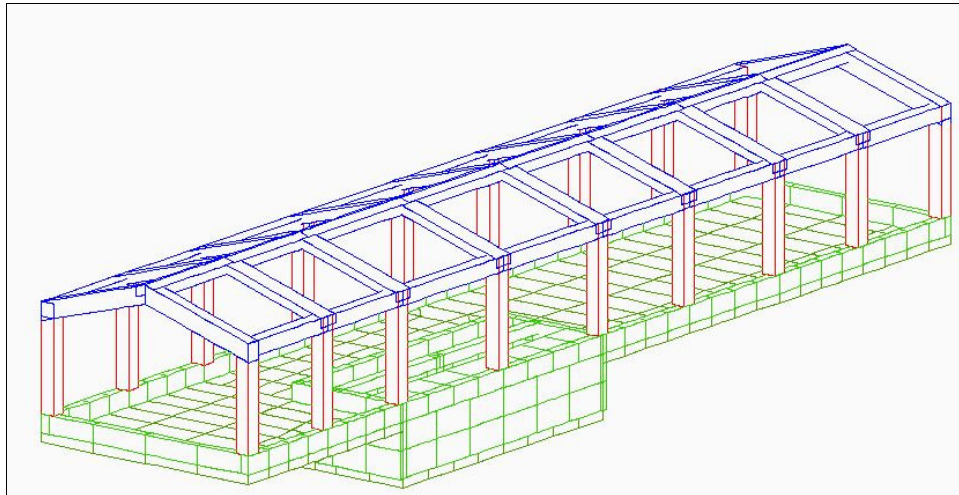


Figura 2: Modello tridimensionale

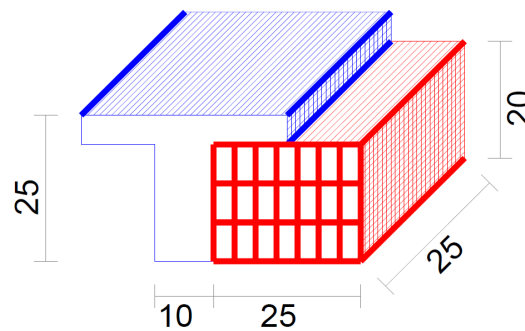


Figura 3: Dettaglio solaio di copertura

Per il solaio di primo calpestio si è scelto di utilizzare un solaio alveolare che poggia sulla platea di fondazione spessa 25 cm, utilizzando igloo in materiale plastico da 30 cm di altezza.

Per evitare che si formi dell'insalubre condensa all'interno degli igloo si realizzerà in opera un sistema di aerazione collegato all'esterno mediante tubolari in acciaio e bocchette. La figura seguente mostra un particolare del solaio. Di seguito si riporta un dettaglio.

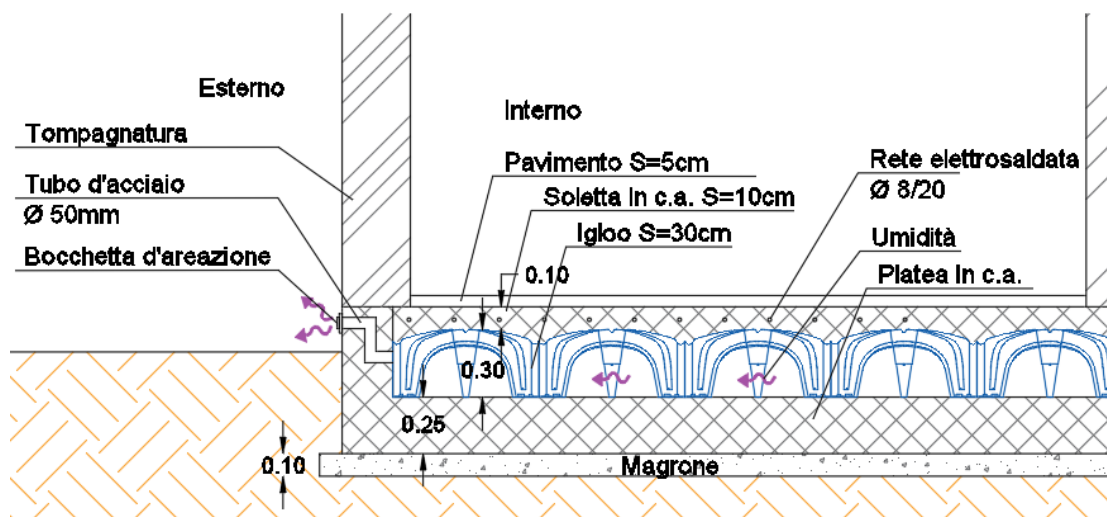


Figura 4: Dettaglio solaio di primo calpestio

#### 4. ANALISI GEOTECNICA

##### 4.1. CARATTERISTICHE DEL TERRENO DI FONDAZIONE

Il terreno di fondazione nell'area in esame, come da relazione geologica del Dott.ssa Geol. Santopietro, non ricade in zone interessate da fenomeni di dissesto, sia per l'assenza di rilievi ripidi, che per le condizioni litologiche e strutturali favorevoli.

Nell'area sono presenti le seguenti formazioni (dal basso verso l'alto):

- **Argille e argille marnose grigio-azzurre Plioceniche (PQa);**
- **Sabbie e sabbie argillose Plioceniche (PQs);**
- **Conglomerati poligenici (Qc1);**
- **Depositi alluvionali terrazzati Pleistocenici-Olocenici (Qt1, Qt2, Qt3).**

Nei fori di sondaggio sono state effettuate n. 13 prove penetrometriche dinamiche tipo S.P.T. con campionatore tipo a punta conica, con dispositivo automatico dello sganciamento del maglio del peso di 63.5 kg. ed altezza di caduta di 76 cm. I risultati delle prove SPT, riportati sulle stratigrafie dei sondaggi, hanno fornito i risultati della resistenza alla penetrazione, rilevando il numero colpi (N), necessari per la penetrazione di 3 tratti consecutivi, ciascuno di 15 cm. Il valore di NSPT, è stato ottenuto effettuando la somma dei colpi rilevati per il 2° e il 3° tratto. La prova è stata sospesa quando il numero dei colpi N, per un tratto di 15 cm, è risultato superiore a 50 (rifiuto).

Dal risultato di tali sondaggi, mediante correlazioni empiriche, è stato possibile fare una stima di massima dei parametri di resistenza del terreno in situ da utilizzare in fase di verifica geotecnica delle strutture da costruire.

| <b>N<sub>spt</sub></b><br>(medio) | <b>Profondità</b><br>(m) | <b>φ' (°)</b><br><br>(Hatanaka e Uchida<br>1996) | <b>c'</b><br><br>(KN/m <sup>2</sup> )<br>(Cherubini, C.<br>2000.) | <b>IC</b><br>(indice<br>consistenza) | <b>Cu da</b><br>(kPa) | <b>Vs (m/s)</b><br><br>(Otha e Goto,<br>1978) |
|-----------------------------------|--------------------------|--------------------------------------------------|-------------------------------------------------------------------|--------------------------------------|-----------------------|-----------------------------------------------|
| 16                                | 1,1-3,60                 | 24-27                                            | 10,3                                                              | Compatto                             | 50-80                 | 181                                           |
| 48                                | 3,60-10,00               | 34-37                                            | 8,8                                                               | Estr. compatto                       | 80-<br>110            | 283                                           |
| 81                                | 10,00-27,45              | 42-45                                            | 7,6                                                               | Estr. compatto                       | 70-<br>100            | 385                                           |

Per informazioni più dettagliate si rimanda alla relazione geotecnica redatta dalla Dott.ssa Geol. Santopietro.

#### 5. ANALISI DEI CARICHI

##### 5.1. AZIONE SISMICA

L'azione sismica è stata valutata in conformità alle indicazioni riportate al §3.2 del D.M. 2018 "Aggiornamento delle Norme tecniche per le Costruzioni", secondo cui le azioni sismiche di progetto, in base alle quali valutare il rispetto dei diversi stati limite considerati, si definiscono a partire dalla

“pericolosità sismica di base” del sito di costruzione e sono funzione delle caratteristiche morfologiche e stratigrafiche che determinano la risposta sismica locale.

La pericolosità sismica è definita in termini di accelerazione orizzontale massima attesa  $a_g$  in condizioni di campo libero su sito di riferimento rigido con superficie topografica orizzontale (di categoria A come definita al § 3.2.2), nonché di ordinate dello spettro di risposta elastico in accelerazione ad essa corrispondente  $S_e(T)$ , con riferimento a prefissate probabilità di eccedenza  $P_{VR}$  come definite nel § 3.2.1, nel periodo di riferimento  $V_R$ , come definito nel § 2.4.

| Stati Limite              | $P_{VR}$ : Probabilità di superamento nel periodo di riferimento $V_R$ |     |
|---------------------------|------------------------------------------------------------------------|-----|
| Stati limite di esercizio | SLO                                                                    | 81% |
|                           | SLD                                                                    | 63% |
| Stati limite ultimi       | SLV                                                                    | 10% |
|                           | SLC                                                                    | 5%  |

**Tabella 1: Probabilità di superamento  $P_{VR}$  in funzione dello stato limite considerato**

Le forme spettrali sono definite, per ciascuna delle probabilità di superamento  $P_{VR}$  nel periodo di riferimento  $V_R$ , a partire dai valori dei seguenti parametri su sito di riferimento rigido orizzontale:

- $a_g$  accelerazione orizzontale massima al sito;
- $F_0$  valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;
- $T_C^*$  valore di riferimento per la determinazione del periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale.

Per i valori di  $a_g$ ,  $F_0$  e  $T_C^*$ , necessari per la determinazione delle azioni sismiche, si fa riferimento agli Allegati A e B al D. M. Infrastrutture Trasporti 17/01/2018.

In particolare il procedimento per la definizione degli spettri di progetto per i vari Stati Limite per cui sono state effettuate le verifiche è stato il seguente:

- a) definizione della vita nominale  $V_N$  e della classe d’uso  $C_U$  della struttura, il cui uso combinato ha portato alla definizione del periodo di riferimento dell’azione sismica  $V_R$  mediante la relazione seguente:

$$V_R = V_N \times C_U$$

dove:

$V_N = 50$  anni

$C_U = 2$  (classe d’uso: IV)

$$V_R = 100 \text{ anni}$$

- b) individuazione, tramite latitudine e longitudine, dei parametri sismici di base  $a_g$ ,  $F_0$  e  $T_C^*$  per tutti e quattro gli Stati Limite previsti (SLO, SLD, SLV e SLC); l’individuazione è stata effettuata interpolando tra i 4 punti più vicini al punto di riferimento del sito della sottostazione;

| Latitudine | Longitudine |
|------------|-------------|
| 41.174866° | 15.612734°  |

| Stato limite            | $a_g/g$    | $F_0$ | $T_c^*$ | $a_g$                  |
|-------------------------|------------|-------|---------|------------------------|
| Operatività (SLO)       | 0,0524 (g) | 2,478 | 0,299 s | 0,514 m/s <sup>2</sup> |
| Danno (SLD)             | 0,0627 (g) | 2,524 | 0,320 s | 0,615 m/s <sup>2</sup> |
| Salvaguardia vita (SLV) | 0,1983 (g) | 2,454 | 0,403 s | 1,945 m/s <sup>2</sup> |
| Collasso (SLC)          | 0,2789 (g) | 2,385 | 0,420 s | 2,736 m/s <sup>2</sup> |

c) determinazione dei coefficienti di amplificazione stratigrafica e topografica;

|                             | SLO    | SLD    | SLV    | SLC    |
|-----------------------------|--------|--------|--------|--------|
| $S_S$ Amp. Stratigrafica    | 1,2000 | 1,200  | 1,200  | 1,134  |
| $C_C$ Coef. Funz. Categoria | 1,4007 | 1,401  | 1,319  | 1,308  |
| $S_T$ Amp. Topografica      | 1,0000 | 1,000  | 1,000  | 1,000  |
| $S$ Amp. Sito $S=S_S*S_T$   | 1,2000 | 1,2000 | 1,2000 | 1,1340 |

d) calcolo del fattore di comportamento  $q$ ;

Nel caso di comportamento strutturale dissipativo, il valore del fattore di comportamento  $q$ , da utilizzare per lo stato limite considerato e nella direzione considerata per l'azione sismica, dipende dalla tipologia strutturale, dal suo grado di iperstaticità e dai criteri di progettazione adottati e tiene conto, convenzionalmente, delle capacità dissipative del materiale.

e) calcolo del periodo  $T_c$  corrispondente all'inizio del tratto a velocità costante dello spettro;

## 5.2. AZIONE DEL VENTO

L'azione del vento è calcolata in conformità a quanto previsto al §3.3 del D.M. 2018 "Aggiornamento delle Norme tecniche per le Costruzioni".

### DEFINIZIONE DEI DATI

Il sito in oggetto si trova in **zona 3** (Toscana, Marche, Umbria, Lazio, Abruzzo, Molise, Puglia, Campania, basilicata, Calabria (esclusa la provincia di Reggio Calabria)) ed appartiene ad una **classe di rugosità D** (Aree prive di ostacoli (aperta campagna, aeroporti, aree agricole, pascoli, zone paludose o sabbiose, superfici innevate o ghiacciate, mare, laghi)).



| Zona | Descrizione                                                                                                                         | $v_{b,0}$ [m/s] | $a_0$ [m] | $k_s$ |
|------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|-------|
| 1    | Valle d'Aosta, Piemonte, Lombardia, Trentino Alto Adige, Veneto, Friuli Venezia Giulia (con l'eccezione della provincia di Trieste) | 25              | 1000      | 0,40  |
| 2    | Emilia Romagna                                                                                                                      | 25              | 750       | 0,45  |
| 3    | Toscana, Marche, Umbria, Lazio, Abruzzo, Molise, Puglia, Campania, Basilicata, Calabria (esclusa la provincia di Reggio Calabria)   | 27              | 500       | 0,37  |
| 4    | Sicilia e provincia di Reggio Calabria                                                                                              | 28              | 500       | 0,36  |
| 5    | Sardegna (zona a oriente della retta congiungente Capo Teulada con l'Isola di Maddalena)                                            | 28              | 750       | 0,40  |
| 6    | Sardegna (zona a occidente della retta congiungente Capo Teulada con l'Isola di Maddalena)                                          | 28              | 500       | 0,36  |
| 7    | Liguria                                                                                                                             | 28              | 1000      | 0,54  |
| 8    | Provincia di Trieste                                                                                                                | 30              | 1500      | 0,50  |
| 9    | Isole (con l'eccezione di Sicilia e Sardegna) e mare aperto                                                                         | 31              | 500       | 0,32  |

**Tabella 2: Valori di  $v_{b,0}$ ,  $a_0$ ,  $k_s$  da NTC 2018**

CALCOLO DELLA VELOCITA' DI RIFERIMENTO

| Zona | $v_{b,0}$ [m/s] | $a_0$ [m] | $k_s$ | $C_a$ |
|------|-----------------|-----------|-------|-------|
| 3    | 27              | 500       | 0,37  | 1,000 |

$$v_b = v_{b,0} * c_a$$

$$c_a = 1 \quad \text{per } a_s \leq a_0$$

$$c_a = 1 + k_s (a_s/a_0 - 1) \quad \text{per } a_0 < a_s \leq 1500 \text{ m}$$

**Velocità base di riferimento:  $v_b = 27,00$  m/s**

Velocità di riferimento:  $v_r = v_b * C_r$

Coefficiente di ritorno:  $c_r = 1,00$

**Velocità di riferimento:  $v_r = 27,02$  m/s**

CALCOLO PRESSIONE CINETICA DI RIFERIMENTO

Pressione cinetica di riferimento:  $q_r = 1/2 * \rho * v_r^2$

con  $\rho = 1,25$  kg/m<sup>3</sup>

**Pressione cinetica di riferimento:  $q_r = 456,29$  N/m<sup>2</sup>**

CALCOLO DEI COEFFICIENTI

Coefficiente dinamico:  $v_d = 1,00$

Coefficiente topografico:  $c_t = 1,00$

Coefficiente di esposizione:

$$c_e(z) = k_r^2 * c_t * \ln(z/z_0) [7 + c_t * \ln(z/z_0)] \quad \text{per } z \geq z_{min}$$

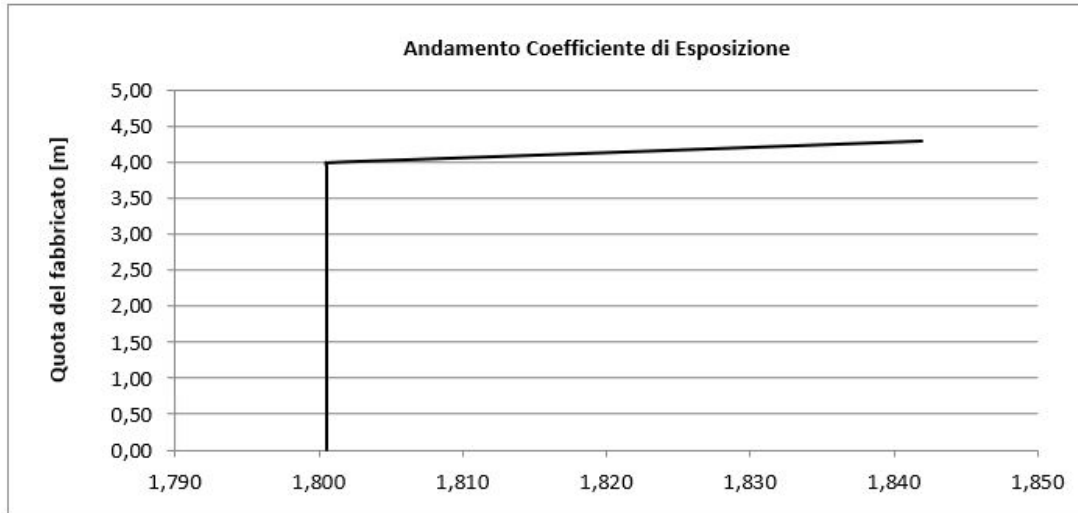
$$c_e(z) = c_e(z_{min}) \quad \text{per } z < z_{min}$$

| $k_r$ | $z_0$ [m] | $z_{min}$ [m] |
|-------|-----------|---------------|
| 0,19  | 0,05      | 4,00          |

Coefficiente di esposizione minimo:  $c_{e,min} = 1,80$   $z < 4,00$

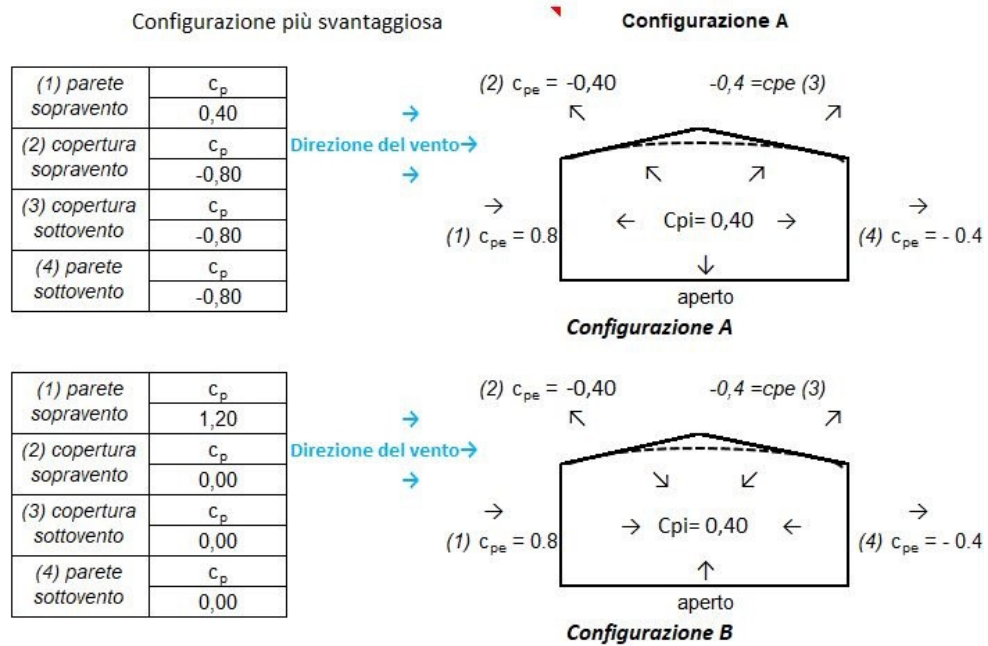
Coefficiente di esposizione alla gronda:  $c_{e,gronda} = 1,80$   $z = 3,00$

Coefficiente di esposizione al colmo:  $c_{e,colmo} = 1,84$   $z = 4,30$



**Figura 5: Andamento coefficiente di esposizione**

Coefficiente di forma:



**CALCOLO DELLE PRESSIONI DEL VENTO**

Pressione del vento:  $p = q_r * c_d * c_t * c_e * c_p$

con:

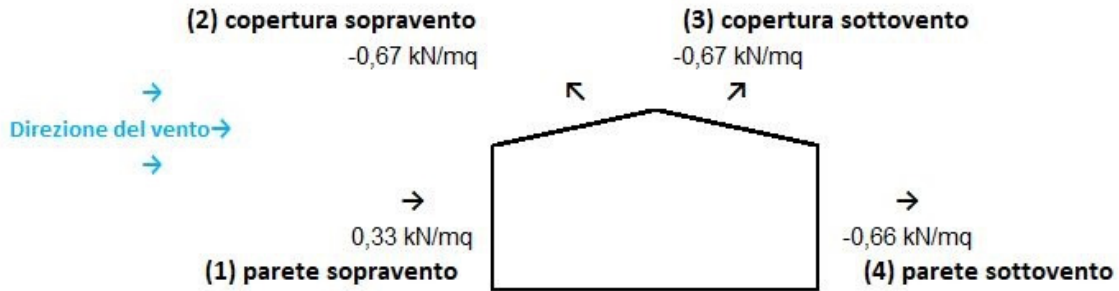
$c_d$ : coefficiente dinamico

$c_t$ : coefficiente topografico

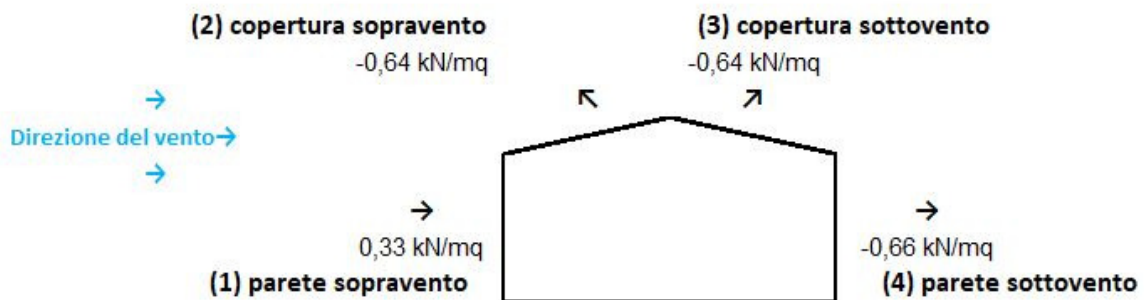
$c_e$ : coefficiente di esposizione

$c_e$ : coefficiente di forma

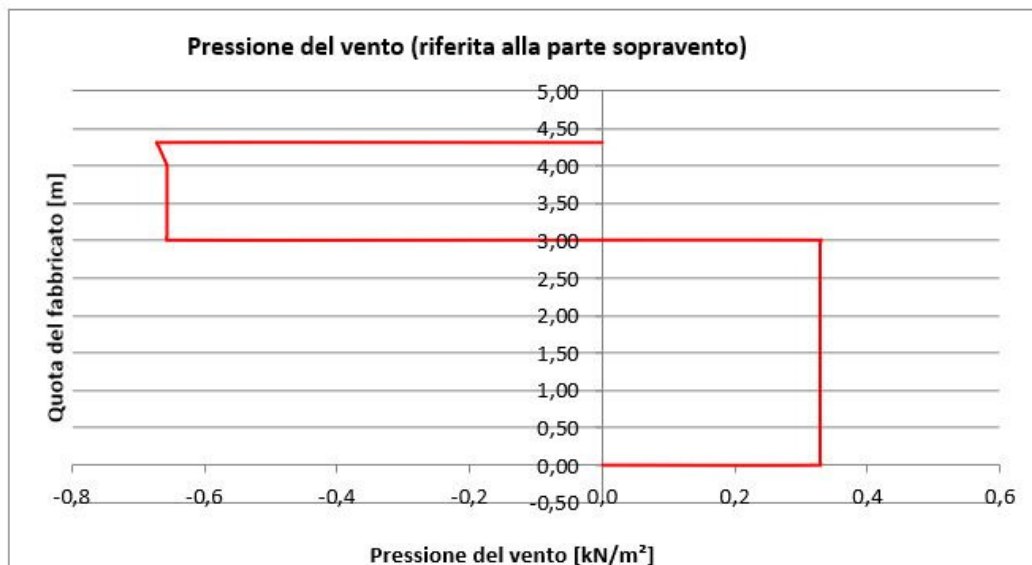
|                     | $p$ [kN/m <sup>2</sup> ] | $c_d$ | $c_t$ | $c_e$ | $c_p$ | $P$ [kN/m <sup>2</sup> ] |
|---------------------|--------------------------|-------|-------|-------|-------|--------------------------|
| (1) par. sopravent. | 0,456                    | 1,00  | 1,00  | 1,801 | 0,40  | 0,33                     |
| (2) cop. sopravent. | 0,456                    | 1,00  | 1,00  | 1,842 | -0,80 | -0,67                    |
| (3) cop. Sottovent. | 0,456                    | 1,00  | 1,00  | 1,842 | -0,80 | -0,67                    |
| (4) par. sottovent. | 0,456                    | 1,00  | 1,00  | 1,801 | -0,80 | -0,66                    |

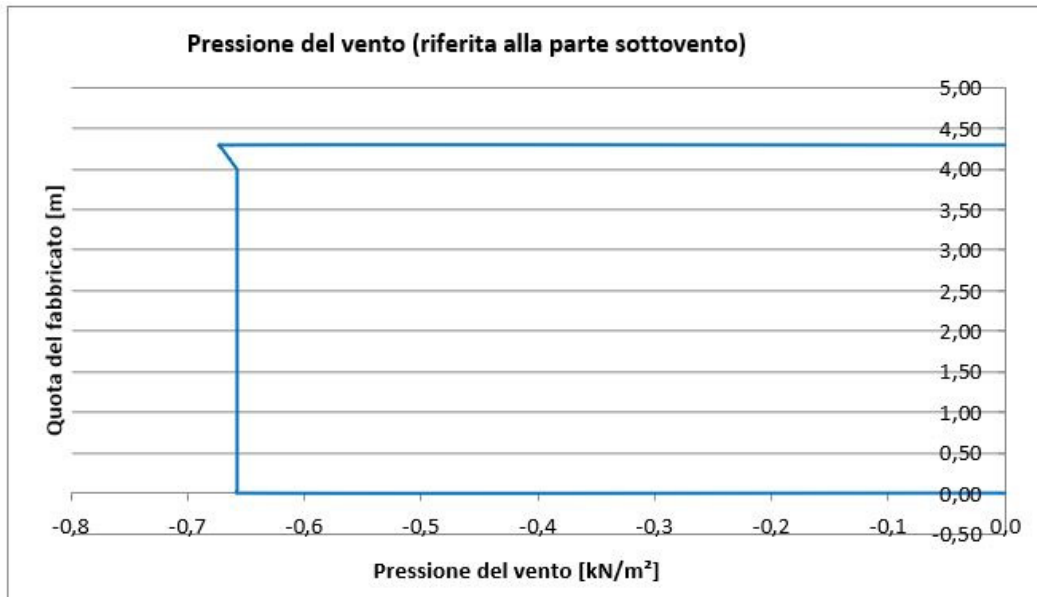


**Valori medi della pressione per ogni elemento**



**Andamento delle pressioni più svataggiose**





### 5.3. AZIONE DELLA NEVE

#### DEFINIZIONE DEI DATI

L'azione della neve è calcolata in conformità a quanto previsto al §3.4 del D.M. 2018 "Aggiornamento delle Norme tecniche per le Costruzioni".

Il sito in oggetto si trova in **zona 3**.

|                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Zona I - Alpina</b><br>Aosta, Belluno, Bergamo, Biella, Bolzano, Brescia, Como, Cuneo, Lecco, Pordenone, Sondrio, Torino, Trento, Udine, Verbanico-Cusio-Ossola, Vercelli, Vicenza                                                                                                                                                                                                                    | $q_{sk} = 1,50 \text{ kN/m}^2$ $a_s \leq 200 \text{ m}$<br>$q_{sk} = 1,39 [1+(a_s/728)^2] \text{ kN/m}^2$ $a_s > 200 \text{ m}$ |
| <b>Zona I - Mediterranea</b><br>Alessandria, Ancona, Asti, Bologna, Cremona, Forlì-Cesena, Lodi, Milano, Modena, Monza Brianza, Novara, Parma, Pavia, Pesaro e Urbino, Piacenza, Ravenna, Reggio Emilia, Rimini, Treviso, Varese                                                                                                                                                                         | $q_{sk} = 1,50 \text{ kN/m}^2$ $a_s \leq 200 \text{ m}$<br>$q_{sk} = 1,35 [1+(a_s/602)^2] \text{ kN/m}^2$ $a_s > 200 \text{ m}$ |
| <b>Zona II</b><br>Arezzo, Ascoli Piceno, Avellino, Bari, Barletta-Andria-Trani, Benevento, Campobasso, Chieti, Fermo, Ferrara, Firenze, Foggia, Frosinone, Genova, Gorizia, Imperia, Isernia, L'Aquila, La Spezia, Lucca, Macerata, Mantova, Massa Carrara, Padova, Perugia, Pescara, Pistoia, Prato, Rieti, Rovigo, Savona, Teramo, Trieste, Venezia, Verona                                            | $q_{sk} = 1,00 \text{ kN/m}^2$ $a_s \leq 200 \text{ m}$<br>$q_{sk} = 0,85 [1+(a_s/481)^2] \text{ kN/m}^2$ $a_s > 200 \text{ m}$ |
| <b>Zona III</b><br>Agrigento, Brindisi, Cagliari, Caltanissetta, Carbonia-Iglesias, Caserta, Catania, Catanzaro, Cosenza, Crotone, Enna, Grosseto, Latina, Lecce, Livorno, Matera, Medio Campidano, Messina, Napoli, Nuoro, Ogliastra, Olbia-Tempio, Oristano, Palermo, Pisa, Potenza, Ragusa, Reggio Calabria, Roma, Salerno, Sassari, Siena, Siracusa, Taranto, Terni, Trapani, Vibo Valentia, Viterbo | $q_{sk} = 0,60 \text{ kN/m}^2$ $a_s \leq 200 \text{ m}$<br>$q_{sk} = 0,51 [1+(a_s/481)^2] \text{ kN/m}^2$ $a_s > 200 \text{ m}$ |

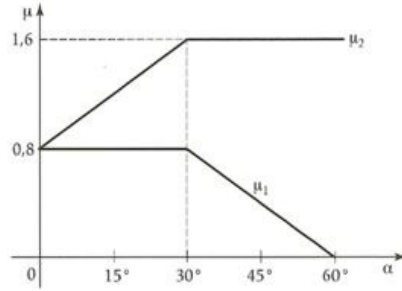
**Valore caratteristico della neve al suolo:  $q_{sk}=0,77 \text{ kN/m}^2$**

#### CALCOLO DEI COEFFICIENTI

Coefficiente di esposizione:  $c_E=0,90$

Coefficiente termico:  $c_t=1,00$

Coefficiente di forma:



|                    |      |
|--------------------|------|
| $\mu_1 (\alpha_1)$ | 0,80 |
| $\mu_1 (\alpha_2)$ | 0,80 |
| $\mu_2 (\alpha)$   | 0,99 |

|                  | $0^\circ \leq \alpha \leq 30^\circ$ | $30^\circ < \alpha < 60^\circ$ | $\alpha \geq 60$ |
|------------------|-------------------------------------|--------------------------------|------------------|
| $\mu_1 (\alpha)$ | 0,80                                | $0.8(60-\alpha)/30$            | 0,00             |
| $\mu_2 (\alpha)$ | $0.8+0.8 \alpha/30$                 | 1,60                           | 0,00             |

Figura 6: Legge di variazione del coefficiente di forma

CARICO NEVE SULLA COPERTURA E COMBINAZIONI DI CARICO

**Carico neve sulla copertura:  $q_s = \mu_i * q_{sk} * C_E * C_t$  [kN/m<sup>2</sup>]**

con:

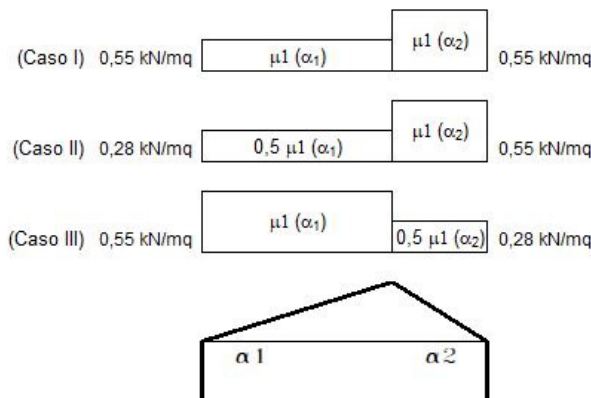
$\mu_i$ : coefficiente di forma

$q_{sk}$ : valore caratteristico della neve al suolo

$C_E$ : coefficiente di esposizione

Per il calcolo si considera solo la più gravosa delle tre condizioni di carico, di seguito calcolate.

|                                 |         |                    |      |
|---------------------------------|---------|--------------------|------|
| $\alpha_1$ (inclinazione falda) | 7 [deg] | $\mu_1 (\alpha_1)$ | 0,80 |
| $\alpha_2$ (inclinazione falda) | 7 [deg] | $\mu_1 (\alpha_2)$ | 0,80 |



Caso I: Carico da neve depositata in assenza di vento  
 Caso II: Carico da neve depositata in presenza di vento  
 Caso III: Carico da neve depositata in presenza di vento

**5.4. CARICHI PERMANENTI STRUTTURALI E NON STRUTTURALI**

I sovraccarichi permanenti strutturali adottati nella modellazione sono i seguenti:

- solai di copertura piani non praticabili:  $g = 1,5 \text{ kN/m}^2$ ;
- solai intermedi praticabili:  $g = 2,5 \text{ kN/m}^2$

Per quanto concerne le murature e i parapetti portati, si ammette che questi ultimi generino i seguenti

sovraccarichi sulle strutture portanti:

- muratura esterna di tamponamento in laterizio forato ( $s=30$  cm):  $460 \text{ daN/m}^2$

## 5.5. CARICHI VARIABILI

I sovraccarichi variabili computati nella modellazione sono i seguenti:

- B1. Uffici non aperti al pubblico:  $q_k = 2.00 \text{ kN/m}^2$ ;
- H1. Coperture e sottotetti accessibili per la sola manutenzione:  $q_k = 0.5 \text{ kN/m}^2$ .

## 6. QUALITÀ DEI MATERIALI

La struttura in oggetto è interamente in cemento armato gettato in opera.

### STRUTTURE DI ELEVAZIONE IN C.A.

#### Calcestruzzi per strutture di elevazione

I calcestruzzi per le strutture di elevazione saranno confezionati con cemento Portland al calcare classe "32.5 R" al fine di ridurre gli effetti negativi del ritiro e di assicurare, come implicita conseguenza della classe di resistenza imposta da esigenze statiche, un rapporto acqua/cemento assai ridotto, con grande vantaggio per la qualità e durabilità delle opere.

Le prescrizioni relative alla "resistenza", nonché quelle necessarie per garantire la qualità e durabilità dei manufatti, sono le seguenti:

Classe di resistenza: C25/30 con  $R_{ck} \geq 30 \text{ N/mm}^2$ , su provini cubici

Classe di esposizione: XC2

Max rapporto a/c: 0.55

Tipo e classe di cemento: CEM II/A-L 32.5 R (Portland al calcare / UNI-ENV 197/1)

Dosaggio min. di cemento:  $320 \text{ Kg/m}^3$

Dimensione max aggregati: 22 mm

Classe di consistenza: S3 (UNI EN 206/1)

Inerti costituiti da ghiaia e sabbia pulita costituiti da elementi non gelivi e non friabili e privi di sostanze organiche, limose o argillose, del tipo calcareo-dolomitico nel rispetto dei fusi granulometrici.

Acqua: limpida, priva di sali (in particolare solfati e cloruri) e non aggressiva.

#### Acciaio per strutture di elevazione

Gli acciai prescritti per la realizzazione delle strutture in elevazione in c.a. hanno le seguenti caratteristiche prestazionali e qualitative:

- acciaio tipo Fe B 450 C controllato in stabilimento;
- nervato ad "alta aderenza" (EN 10080);
- saldabile ( $C \leq 0.24\%$ ;  $C_{eq} \leq 0.52\%$ ).

Per quanto concerne reti e tralicci di acciaio elettrosaldati, si fa espresso riferimento al punto 2.2.5. del D.M. 9 gennaio 96.

#### *STRUTTURE DI FONDAZIONE IN C.A.*

Le strutture di fondazione saranno del tipo diretto.

Il piano di imposta delle strutture di fondazione sarà regolarizzato e bonificato preliminarmente mediante uno strato di calcestruzzo magro, spesso almeno 10 cm, di resistenza caratteristica non inferiore a  $R_{ck}$  15 N/mm<sup>2</sup>.

#### Calcestruzzi per strutture di fondazione

È stato previsto l'uso di cemento Pozzolánico, tipo CEM IV/B 32.5, allo scopo prevenire i modesti rischi di aggressione da parte dei terreni e delle acque di infiltrazione; la classe 32.5 consente, inoltre, di ridurre gli effetti negativi del ritiro e di assicurare, come implicita conseguenza della classe di resistenza imposta da esigenze statiche, un rapporto acqua/cemento assai ridotto, con grande vantaggio per la qualità e durabilità delle opere.

Le caratteristiche prestazionali meccaniche e qualitative di composizione, prescritte per i calcestruzzi relativi alle fondazioni, sono le seguenti:

Classe di resistenza: C25/30 con  $R_{ck} \geq 30$  N/mm<sup>2</sup>, su provini cubici

Classe di esposizione: XC2

Max rapporto a/c: 0.60

Tipo e classe di cemento: CEM IV/B 32.5 R (Pozzolánico/UNI-ENV 197/1)

Dosaggio min. di cemento: 320 Kg/m<sup>3</sup>

Dimensione max aggregati: 22 mm

Classe di consistenza: S3 (UNI EN 206/1)

Inerti costituiti da ghiaia e sabbia pulita costituiti da elementi non gelivi e non friabili e privi di sostanze organiche, limose o argillose, del tipo calcareo-dolomitico nel rispetto dei fusi granulometrici.

Acqua: limpida, priva di sali (in particolare solfati e cloruri) e non aggressiva.

#### Acciaio per strutture di fondazione

Gli acciai prescritti per la realizzazione delle strutture in elevazione in c.a. hanno le seguenti caratteristiche prestazionali e qualitative:

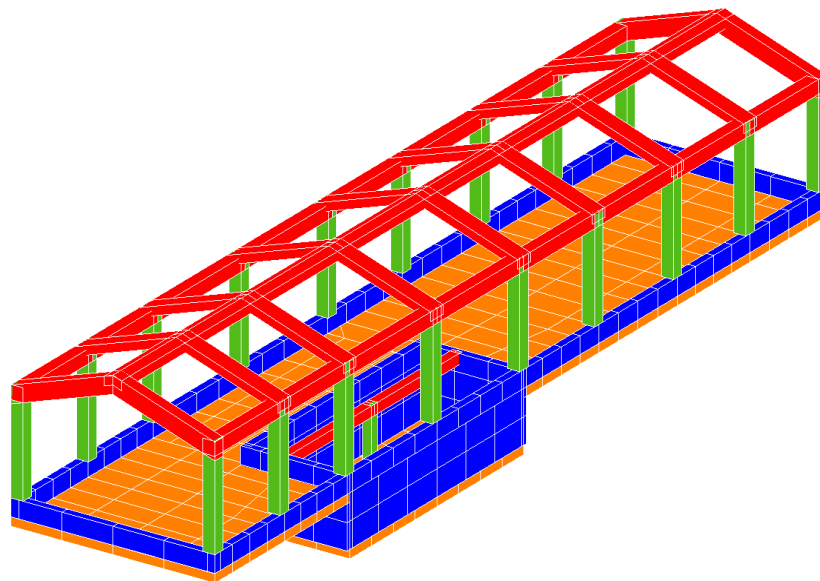
- acciaio tipo Fe B 450 C controllato in stabilimento;
- nervato ad "alta aderenza" (EN 10080);
- saldabile ( $C \leq 0.24\%$ ;  $C_{eq} \leq 0.52\%$ ).

## 7. MODELLAZIONE E CRITERI DI VERIFICA

### 7.1. MODELLI UTILIZZATI PER IL CALCOLO

Si sono utilizzati come modelli di calcolo quelli esplicitamente richiamati nel D.M. 17/01/2018.

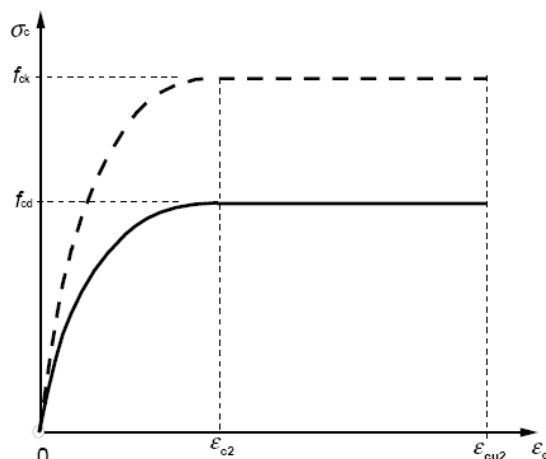
Per quanto riguarda le azioni sismiche ed in particolare per la determinazione del fattore di struttura, dei dettagli costruttivi e le prestazioni sia agli S.L.U. che allo S.L.D. si fa riferimento al D.M. 17/01/18 e alla circolare del Ministero delle Infrastrutture e dei Trasporti del 21 gennaio 2019, n. 7 la quale è stata utilizzata come norma di dettaglio. Si riporta un'immagine prospettica della struttura oggetto di analisi.



**Figura 7: Vista prospettica della struttura**

La definizione quantitativa delle prestazioni e le verifiche sono riportati nel fascicolo delle elaborazioni numeriche allegate.

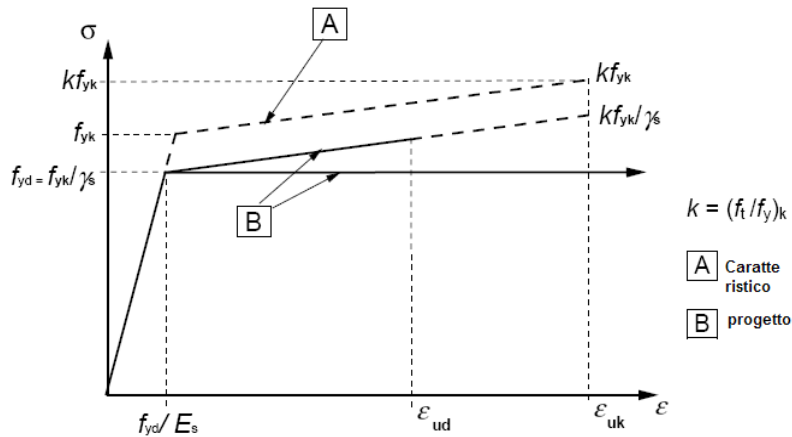
Per le verifiche sezionali i legami utilizzati sono:



**Figura 8: Legame costitutivo di progetto parabola-rettangolo per il calcestruzzo**



Il valore  $\sigma_{ec2}$  nel caso di analisi non lineari sarà valutato in funzione dell'effettivo grado di confinamento esercitato dalle staffe sul nucleo di calcestruzzo.



**Figura 9: Legame costitutivo di progetto elastico perfettamente plastico o incrudente a duttilità limitata per l'acciaio**

### 7.2. ORIGINE E CARATTERISTICHE DEI CODICI DI CALCOLO

|             |            |
|-------------|------------|
| Produttore  | S.T.S. srl |
| Titolo      | CDSWin     |
| Versione    | Rel. 2020  |
| Nro Licenza | 34981      |

#### Affidabilità dei codici utilizzati

L'affidabilità del codice utilizzato e la sua idoneità al caso in esame, è stata attentamente verificata sia effettuando il raffronto tra casi prova di cui si conoscono i risultati esatti sia esaminando le indicazioni, la documentazione ed i test forniti dal produttore stesso.

La S.T.S. s.r.l., a riprova dell'affidabilità dei risultati ottenuti, fornisce direttamente on-line i test sui casi prova liberamente consultabili all' indirizzo:

<http://www.stsweb.it/area-utenti/test-validazione.html>

### 7.3. TIPO DI ANALISI SVOLTE

|                                              |                               |
|----------------------------------------------|-------------------------------|
| SLO                                          | NO                            |
| SLD                                          | SI                            |
| SLV                                          | SI                            |
| SLC                                          | NO                            |
| Combinazione Rara                            | SI                            |
| Combinazione frequente                       | SI                            |
| Combinazione quasi permanente                | SI                            |
| SLU terreno A1 – Approccio 1/<br>Approccio 2 | SI-CON NTC18 SOLO APPROCCIO 2 |
| SLU terreno A2 – Approccio 1                 | NON PREVISTA DALLE NTC18      |

#### 7.4. PRESENTAZIONE SINTETICA DEI RISULTATI

Una sintesi del comportamento della struttura è consegnata nelle tabelle di sintesi dei risultati, riportate in appresso, e nelle rappresentazioni grafiche allegate in coda alla presente relazione in cui sono rappresentate le principali grandezze (deformate, sollecitazioni, etc.) per le parti più sollecitate della struttura in esame.

Il numero dei modi di vibrare considerato (6) ha permesso di mobilitare le seguenti percentuali delle masse della struttura, per le varie direzioni:

| DIREZIONE | % MASSA         |
|-----------|-----------------|
| X         | 100             |
| Y         | 100             |
| Z         | NON SELEZIONATA |

| Stato limite | Status Verifica |
|--------------|-----------------|
| SLD          | VERIFICATO      |

| Tipo di Elemento             | Non Verif/Totale | STATUS     |
|------------------------------|------------------|------------|
| <b>Travi c.a. Elevazione</b> | 0 su 44          | VERIFICATO |
| <b>Pilastrini in c.a.</b>    | 0 su 19          | VERIFICATO |
| <b>Shell in c.a.</b>         | 0 su 7           | VERIFICATO |
| <b>Piastre in c.a.</b>       | 0 su 4           | VERIFICATO |

| Tipo di Elemento             | Non Verif/Totale | STATUS     |
|------------------------------|------------------|------------|
| <b>Travi c.a. Elevazione</b> | 0 su 44          | VERIFICATO |
| <b>Pilastrini in c.a.</b>    | 0 su 19          | VERIFICATO |
| <b>Shell in c.a.</b>         | 0 su 7           | VERIFICATO |
| <b>Piastre in c.a.</b>       | 0 su 4           | VERIFICATO |

#### 7.5. RIEPILOGO PARAMETRI SISMICI

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| <b>Vita Nominale</b>                                | <b>50</b>       |
| <b>Classe d'Uso</b>                                 | <b>4</b>        |
| <b>Categoria del Suolo</b>                          | <b>B</b>        |
| <b>Categoria Topografica</b>                        | <b>1</b>        |
| <b>Latitudine del sito oggetto di edificazione</b>  | <b>41.13584</b> |
| <b>Longitudine del sito oggetto di edificazione</b> | <b>15.51571</b> |

Le verifiche, svolte secondo il metodo degli stati limite ultimi e di esercizio, si ottengono involupando tutte le condizioni di carico prese in considerazione.

In fase di verifica è stato differenziato l'elemento trave dall'elemento pilastro. Nell'elemento trave le armature sono disposte in modo asimmetrico, mentre nei pilastri sono sempre disposte simmetricamente.

Per l'elemento trave, l'armatura si determina suddividendola in cinque conci in cui l'armatura si mantiene costante, valutando per tali conci le massime aree di armatura superiore ed inferiore richieste in base ai momenti massimi riscontrati nelle varie combinazioni di carico esaminate. Lo stesso criterio è stato adottato per il calcolo delle staffe.

Anche l'elemento pilastro viene scomposto in cinque conci in cui l'armatura si mantiene costante. Vengono però riportate le armature massime richieste nella metà superiore (testa) e inferiore (piede).

La fondazione su travi rovesce è risolta contemporaneamente alla sovrastruttura tenendo in conto sia la rigidità flettente che quella torcente, utilizzando per l'analisi agli elementi finiti l'elemento asta su suolo elastico alla Winkler.

Le travate possono incrociarsi con angoli qualsiasi e avere dei disassamenti rispetto ai pilastri su cui si appoggiano.

La ripartizione dei carichi, data la natura matriciale del calcolo, tiene automaticamente conto della rigidità relativa delle varie travate convergenti su ogni nodo.

## 7.6. DIMENSIONAMENTO MINIMO DELLE ARMATURE

Per il calcolo delle armature sono stati rispettati i minimi di legge di seguito riportati:

### TRAVI:

- area minima delle staffe pari a  $1.5 \cdot b$  mmq/ml, essendo  $b$  lo spessore minimo dell'anima misurato in mm, con passo non maggiore di 0,8 dell'altezza utile e con un minimo di 3 staffe al metro. in prossimità degli appoggi o di carichi concentrati per una lunghezza pari all'altezza utile della sezione, il passo minimo sarà 12 volte il diametro minimo dell'armatura longitudinale.
- armatura longitudinale in zona tesa  $\geq 0,15\%$  della sezione di calcestruzzo. alle estremità è disposta una armatura inferiore minima che possa assorbire, allo stato limite ultimo, uno sforzo di trazione uguale al taglio.

in zona sismica, nelle zone critiche il passo staffe è non superiore al minimo di:

- un quarto dell'altezza utile della sezione trasversale;
- 175 mm e 225 mm, rispettivamente per cda e cdb;
- 6 volte e 8 volte il diametro minimo delle barre longitudinali considerate ai fini delle verifiche, rispettivamente per cda e cdb;
- 24 volte il diametro delle armature trasversali.

le zone critiche si estendono, per cdb e cda, per una lunghezza pari rispettivamente a 1 e 1,5 volte l'altezza della sezione della trave, misurata a partire dalla faccia del nodo trave-pilastro. nelle zone critiche della trave il rapporto fra l'armatura compressa e quella tesa è maggiore o uguale a 0,5.

### PILASTRI:

- Armatura longitudinale compressa fra 0,3% e 4% della sezione effettiva e non minore di  $0,10 \cdot N_{ed} / f_{yd}$ ;

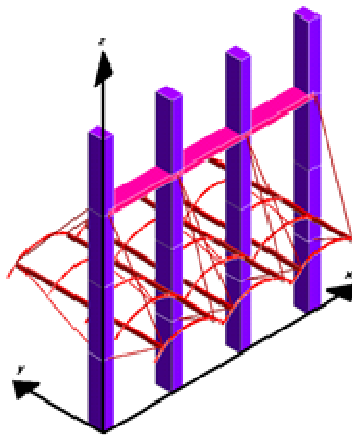
Barre longitudinali con diametro  $\geq 12$  mm;

- Diametro staffe  $\geq 6$  mm e comunque  $\geq 1/4$  del diametro max delle barre longitudinali, con interasse non maggiore di 30 cm.
- In zona sismica l'armatura longitudinale è almeno pari all'1% della sezione effettiva; il passo delle staffe di contenimento è non superiore alla più piccola delle quantità seguenti:
  - 1/3 e 1/2 del lato minore della sezione trasversale, rispettivamente per CDA e CDB;
  - 125 mm e 175 mm, rispettivamente per CDA e CDB;
  - 6 e 8 volte il diametro delle barre longitudinali che collegano, rispettivamente per CDA e CDB.

### **7.7. SISTEMI DI RIFERIMENTO**

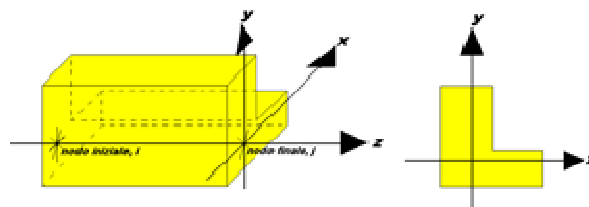
#### SISTEMA GLOBALE DELLA STRUTTURA SPAZIALE

Il sistema di riferimento globale è costituito da una terna destra di assi cartesiani ortogonali (O-XYZ) dove l'asse Z rappresenta l'asse verticale rivolto verso l'alto. Le rotazioni sono considerate positive se concordi con gli assi vettori:



#### SISTEMA LOCALE DELLE ASTE

Il sistema di riferimento locale delle aste, inclinate o meno, è costituito da una terna destra di assi cartesiani ortogonali che ha l'asse Z coincidente con l'asse longitudinale dell'asta ed orientamento dal nodo iniziale al nodo finale, gli assi X ed Y sono orientati come nell'archivio delle sezioni:



#### UNITÀ DI MISURA

Si adottano le seguenti unità di misura:

[lunghezze] = m

[forze] = kgf / daN

[tempo] = sec

[temperatura] = °C

CONVENZIONI SUI SEGNI

I carichi agenti sono:

- 1) Carichi e momenti distribuiti lungo gli assi coordinati;
- 2) Forze e coppie nodali concentrate sui nodi.

Le forze distribuite sono da ritenersi positive se concordi con il sistema di riferimento locale dell'asta, quelle concentrate sono positive se concordi con il sistema di riferimento globale.

I gradi di libertà nodali sono gli omologhi agli enti forza, e quindi sono definiti positivi se concordi a questi ultimi.

**7.8. CRITERI DI PROGETTO**
**ARCHIVIO MATERIALI PIASTRE: MATRICE ELASTICA**

| Materiale | Densita' | Ex*1E3             | Ni.x | Alfa.x | Ey*1E3             | Ni.y | Alfa.y | E11*1E3             | E12*1E3             | E13*1E3             | E22*1E3             | E23*1E3             | E33*1E3             |
|-----------|----------|--------------------|------|--------|--------------------|------|--------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| N.ro      | daN/mc   | dN/cm <sup>q</sup> |      | (*1E5) | dN/cm <sup>q</sup> |      | (*1E5) | daN/cm <sup>q</sup> | daN/cm <sup>q</sup> | daN/cm <sup>q</sup> | daN/cm <sup>q</sup> | daN/cm <sup>q</sup> | daN/cm <sup>q</sup> |
| 1         | 2500     | 285                | 0.20 | 0.00   | 285                | 0.20 | 0.00   | 296                 | 59                  | 0                   | 296                 | 0                   | 119                 |

**ARCHIVIO SEZIONI SHELLS**

| Sezione | Spessore | Tipo   | Tipo Elemento  |
|---------|----------|--------|----------------|
| N.ro    | cm       | Mater. | (descrizione)  |
| 601     | 25       | 1      | LASTRA-PIASTRA |

**ARCHIVIO TIPOLOGIE DI CARICO**

| Car. | Peso  | Perman. | Varia |       |           |     |     |     | Anal | DESCRIZIONE SINTETICA DEL TIPO DI CARICO |
|------|-------|---------|-------|-------|-----------|-----|-----|-----|------|------------------------------------------|
| N.ro | Strut | NONstru | bile  | Neve  | Destinaz. | Psi | Psi | Psi | Car. |                                          |
|      | dN/mq | dN/mq   | dN/mq | dN/mq | d'Uso     | 0   | 1   | 2   | N.ro |                                          |
| 1    | 200   | 200     | 50    | 0     | Categ. E  | 1.0 | 0.9 | 0.8 |      |                                          |
| 2    | 350   | 0       | 0     | 60    | Categ. H  | 0.0 | 0.0 | 0.0 |      |                                          |
| 3    | 0     | 300     | 250   | 0     | Categ. E  | 1.0 | 0.9 | 0.8 |      |                                          |
| 4    | 250   | 100     | 50    | 60    | Categ. H  | 0.0 | 0.0 | 0.0 |      |                                          |
| 5    | 250   | 100     | 250   | 0     | Categ. E  | 1.0 | 0.9 | 0.8 |      |                                          |

**CRITERI DI PROGETTO**

| IDEN | ASTE ELEVAZIONE |        |        |        |                    |        |      |        |      |      |      |      |      |      |      |
|------|-----------------|--------|--------|--------|--------------------|--------|------|--------|------|------|------|------|------|------|------|
| Crit | Def             | %Scorr | P max. | P min. | τMtmin             | Ferri  | Elim | Tipo   | Fl.  | DenX | DenX | DenY | DenY | %Mag | %Rid |
| N.ro | Tag             | Staffe | Staffe | Staffe | dN/cm <sup>q</sup> | parete | cm   | verif. | rett | pos. | neg. | pos. | neg. | car. |      |
| 1    | si              | 100    | 30     | 0      | 3                  | no     | 200  | Mx     | 1    | 0    | 0    | 0    | 0    | 0    | 100  |

**CRITERI DI PROGETTO**

| IDEN | PILASTRI |                    |        | IDEN | PILASTRI |                    |        |
|------|----------|--------------------|--------|------|----------|--------------------|--------|
| Crit | Def      | $\tau$ Mtmin       | Tipo   | Crit | Def      | $\tau$ Mtmin       | Tipo   |
| N.ro | Tag      | dN/cm <sup>q</sup> | verif. | N.ro | Tag      | dN/cm <sup>q</sup> | verif. |
| 3    | si       | 3.0                | Dev.   |      |          |                    |        |

**CRITERI DI PROGETTO**

| IDENTIF. |       | CARATTERISTICHE DEL MATERIALE |       |        |         |                     |      |       | DURABILITA' |            |       | CARATTER.COSTRUTTIVE |      |     |    |     |    | FLAG |  |
|----------|-------|-------------------------------|-------|--------|---------|---------------------|------|-------|-------------|------------|-------|----------------------|------|-----|----|-----|----|------|--|
| Crit     | Elem. | % Rig                         | % Rig | Classe | Classe  | Mod. El             | Pois | Gamma | Tipo        | Tipo       | Toll. | Copr                 | Copr | Fi  | Fi | Lun | Li | App  |  |
| N.ro     |       | Tors.                         | Fless | CLS    | Acciaio | daN/cm <sup>q</sup> | son  | dN/mc | Ambiente    | Armatura   | Copr. | staf                 | ferr | min | st | sta | n. | esi  |  |
| 1        | ELEV. | 10                            | 100   | C25/30 | B450C   | 314758              | 0.20 | 2500  | ORDIN. X0   | POCO SENS. | 0.00  | 3.0                  | 4.7  | 14  | 10 | 60  | 1  | 0    |  |
| 3        | PILAS | 60                            | 100   | C25/30 | B450C   | 314758              | 0.20 | 2500  | ORDIN. X0   | POCO SENS. | 0.00  | 3.0                  | 4.7  | 14  | 10 | 50  |    | 0    |  |

**CRITERI DI PROGETTO**
**CRITERI PER IL CALCOLO AGLI STATI LIMITE ULTIMI E DI ESERCIZIO**

| Cri | Tipo  | fck                             | fc'd  | rcd   | fyk  | ftk  | fyd  | Ey      | ec0  | ecu  | eyu  | At/ | Mt/ | Wra | Wfr | Wpe | $\sigma$ Rar              | $\sigma$ Per | $\sigma$ Rar | Spo | Spo | Spo | Coe | euk  |
|-----|-------|---------------------------------|-------|-------|------|------|------|---------|------|------|------|-----|-----|-----|-----|-----|---------------------------|--------------|--------------|-----|-----|-----|-----|------|
| Nro | Elem  | ----- daN/cm <sup>q</sup> ----- |       |       |      |      |      |         |      |      |      | Ac  | Mtu | mm  | mm  | mm  | -- daN/cm <sup>q</sup> -- |              |              | Rar | Fre | Per | Vis |      |
| 1   | ELEV. | 250.0                           | 141.0 | 141.0 | 4500 | 4500 | 3913 | 2100000 | 0.20 | 0.35 | 1.00 | 50  | 10  |     | 0.4 | 0.3 | 150.0                     | 112.0        | 3600         |     |     |     | 2.0 | 0.08 |
| 3   | PILAS | 250.0                           | 141.0 | 141.0 | 4500 | 4500 | 3913 | 2100000 | 0.20 | 0.35 | 1.00 | 50  | 10  |     | 0.4 | 0.3 | 150.0                     | 112.0        | 3600         |     |     |     | 2.0 | 0.08 |

**MATERIALI SHELL IN C.A.**

| IDENT | %   | CARATTERISTICHE    |         |                    |       |                   | DURABILITA' |            |       | COPRIFERRO |         |
|-------|-----|--------------------|---------|--------------------|-------|-------------------|-------------|------------|-------|------------|---------|
| Mat.  | Rig | Classe             | Classe  | Mod. E             | Pois- | Gamma             | Tipo        | Tipo       | Toll. | Setti      | Piastre |
| N.ro  | Fis | dN/cm <sup>q</sup> | Acciaio | dN/cm <sup>q</sup> | son   | dN/m <sup>c</sup> | Ambiente    | Armatura   | Copr. | (cm)       | (cm)    |
| 1     | 100 | C20/25             | B450C   | 299619             | 0.20  | 2500              | ORDIN. X0   | POCO SENS. | 0.00  | 2.0        | 2.0     |

**MATERIALI SHELL IN C.A.**
**CRITERI PER IL CALCOLO AGLI STATI LIMITE ULTIMI E DI ESERCIZIO**

| Cri | Tipo | fck                             | fc'd | rcd | fyk | ftk | fyd | Ey | ec0 | ecu | eyu | At/ | Mt/ | Wra | Wfr | Wpe | $\sigma$ Rar              | $\sigma$ Per | $\sigma$ Rar | Spo | Spo | Spo | Coe | euk |
|-----|------|---------------------------------|------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------|--------------|--------------|-----|-----|-----|-----|-----|
| Nro | Elem | ----- daN/cm <sup>q</sup> ----- |      |     |     |     |     |    |     |     |     | Ac  | Mtu | mm  | mm  | mm  | -- daN/cm <sup>q</sup> -- |              |              | Rar | Fre | Per | Vis |     |



| N.ro | daN/cm <sub>c</sub> | daN/cm <sub>c</sub> | daN/cm <sub>q</sub> | N.ro | daN/cm <sub>c</sub> | daN/cm <sub>c</sub> | daN/cm <sub>q</sub> | N.ro | daN/cm <sub>c</sub> | daN/cm <sub>c</sub> | daN/cm <sub>q</sub> |
|------|---------------------|---------------------|---------------------|------|---------------------|---------------------|---------------------|------|---------------------|---------------------|---------------------|
| 1    | 15.00               | 0.00                | Trz/Cmp             | 2    | 10.00               | 5.00                | Trz/Cmp             |      |                     |                     |                     |

**DATI GENERALI DI STRUTTURA**

DATI GENERALI DI STRUTTURA

|                                                    |           |                            |           |
|----------------------------------------------------|-----------|----------------------------|-----------|
| Massima dimens. dir. X (m)                         | 29.50     | Altezza edificio (m)       | 6.00      |
| Massima dimens. dir. Y (m)                         | 6.70      | Differenza temperatura(°C) | 15        |
| <b>PARAMETRI SISMICI</b>                           |           |                            |           |
| Vita Nominale (Anni)                               | 50        | Classe d' Uso              | IV Cu=2.0 |
| Longitudine Est (Grd)                              | 15.51571  | Latitudine Nord (Grd)      | 41.13584  |
| Categoria Suolo                                    | B         | Coeff. Condiz. Topogr.     | 1.00000   |
| Sistema Costruttivo Dir.1                          | C.A.      | Sistema Costruttivo Dir.2  | C.A.      |
| Regolarita' in Altezza                             | NO(KR=.8) | Regolarita' in Pianta      | NO        |
| Direzione Sisma (Grd)                              | 0         | Sisma Verticale            | ASSENTE   |
| Effetti P/Delta                                    | NO        | Quota di Zero Sismico (m)  | 0.00000   |
| <b>PARAMETRI SPETTRO ELASTICO - SISMA S.L.D.</b>   |           |                            |           |
| Probabilita' Pvr                                   | 0.63      | Periodo di Ritorno Anni    | 101.00    |
| Accelerazione Ag/g                                 | 0.09      | Periodo T'c (sec.)         | 0.34      |
| Fo                                                 | 2.44      | Fv                         | 1.02      |
| Fattore Stratigrafia'Ss'                           | 1.20      | Periodo TB (sec.)          | 0.15      |
| Periodo TC (sec.)                                  | 0.46      | Periodo TD (sec.)          | 1.98      |
| <b>PARAMETRI SPETTRO ELASTICO - SISMA S.L.V.</b>   |           |                            |           |
| Probabilita' Pvr                                   | 0.10      | Periodo di Ritorno Anni    | 949.00    |
| Accelerazione Ag/g                                 | 0.28      | Periodo T'c (sec.)         | 0.42      |
| Fo                                                 | 2.40      | Fv                         | 1.71      |
| Fattore Stratigrafia'Ss'                           | 1.13      | Periodo TB (sec.)          | 0.18      |
| Periodo TC (sec.)                                  | 0.55      | Periodo TD (sec.)          | 2.72      |
| <b>PARAMETRI SISTEMA COSTRUTTIVO C.A. - DIR. 1</b> |           |                            |           |
| Classe Duttilita'                                  | MEDIA     | Sotto-Sistema Strutturale  | Telaio    |



|                                                         |                      |                             |        |
|---------------------------------------------------------|----------------------|-----------------------------|--------|
| AlfaU/Alfa1                                             | 1.15                 | Fattore riduttivo KW        | 1.00   |
| Fattore di comportam 'q'                                | 2.76                 |                             |        |
| <b>PARAMETRI SISTEMA COSTRUTTIVO C. A. - DIR. 2</b>     |                      |                             |        |
| Classe Duttilita'                                       | MEDIA                | Sotto-Sistema Strutturale   | Telaio |
| AlfaU/Alfa1                                             | 1.15                 | Fattore riduttivo KW        | 1.00   |
| Fattore di comportam 'q'                                | 2.76                 |                             |        |
| <b>COEFFICIENTI DI SICUREZZA PARZIALI DEI MATERIALI</b> |                      |                             |        |
| Acciaio per CLS armato                                  | 1.15                 | Calcestruzzo CLS armato     | 1.50   |
| Legno per comb. eccez.                                  | 1.00                 | Legno per comb. fundament.: | 1.30   |
| Livello conoscenza                                      | NUOVA<br>COSTRUZIONE |                             |        |
| FRP Collasso Tipo 'A'                                   | 1.10                 | FRP Delaminazione Tipo 'A'  | 1.20   |
| FRP Collasso Tipo 'B'                                   | 1.25                 | FRP Delaminazione Tipo 'B'  | 1.50   |
| FRP Resist. Press/Fless                                 | 1.00                 | FRP Resist. Taglio/Torsione | 1.20   |
| FRP Resist. Confinamento                                | 1.10                 |                             |        |

|                                                                           |       |                              |        |
|---------------------------------------------------------------------------|-------|------------------------------|--------|
| <b>DATI GENERALI DI STRUTTURA</b>                                         |       |                              |        |
| <b>DATI DI CALCOLO PER AZIONE VENTO</b>                                   |       |                              |        |
| Zona Geografica                                                           | 1     | Altitudine s.l.m. (m)        | 120.00 |
| Distanza dalla costa (km)                                                 | 90.00 | Tempo di Ritorno (anni)      | 50.00  |
| Classe di Rugosita'                                                       | D     | Coefficiente Topografico     | 1.00   |
| Coefficiente dinamico                                                     | 1.00  | Coefficiente di attrito      | 0.02   |
| Velocita' di riferim. (m/s)                                               | 25.02 | Pressione di riferim.(kg/mq) | 39.12  |
| Categoria di Esposizione                                                  | II    |                              |        |
| Edificio dotato di porosita' distribuita uniforme                         |       |                              |        |
| Il calcolo delle azioni del vento e' effettuato in base al punto 3.3 del- |       |                              |        |
| le NTC e relative modifiche e integrazioni riportate nella Circolare del  |       |                              |        |
| 21/01/2019                                                                |       |                              |        |

DATI DI CALCOLO PER AZIONE NEVE

|                             |         |                              |       |
|-----------------------------|---------|------------------------------|-------|
| Zona Geografica             | III     | Coefficiente Termico         | 1.00  |
| Altitudine sito s.l.m. (m)  | 120     | Coefficiente di forma        | 1.00  |
| Tipo di Esposizione         | Normale | Coefficiente di esposizione  | 1.00  |
| Carico di riferimento kg/mq | 60      | Carico neve di calcolo kg/mq | 60.00 |

Il calcolo della neve e' effettuato in base al punto 3.4 del D.M. 2018 e relative modifiche e integrazioni riportate nella Circolare del 21/01/2019

COORDINATE E TIPOLOGIA FILI FISSI

| Filo N.ro | Ascissa m | Ordinata m |  | Filo N.ro | Ascissa m | Ordinata m |
|-----------|-----------|------------|--|-----------|-----------|------------|
| 1         | 0.00      | 0.00       |  | 2         | 3.35      | 0.00       |
| 3         | 6.50      | 0.00       |  | 4         | 10.70     | 0.00       |
| 5         | 14.90     | 0.00       |  | 6         | 18.50     | 0.00       |
| 7         | 22.30     | 0.00       |  | 8         | 25.80     | 0.00       |
| 9         | 29.50     | 0.00       |  | 10        | 0.00      | 6.70       |
| 11        | 3.35      | 6.70       |  | 12        | 6.50      | 6.70       |
| 13        | 10.70     | 6.70       |  | 14        | 14.90     | 6.70       |
| 15        | 18.50     | 6.70       |  | 16        | 22.30     | 6.70       |
| 17        | 25.80     | 6.70       |  | 18        | 29.50     | 6.70       |
| 19        | 6.50      | 2.20       |  | 20        | 6.50      | 3.50       |
| 21        | 14.90     | 2.20       |  | 22        | 14.90     | 3.50       |
| 23        | 10.70     | 3.50       |  | 24        | 10.70     | 2.20       |
| 25        | 0.00      | 3.35       |  | 26        | 3.35      | 3.35       |
| 27        | 6.50      | 3.35       |  | 28        | 10.70     | 3.35       |
| 29        | 14.90     | 3.35       |  | 30        | 18.50     | 3.35       |
| 31        | 22.30     | 3.35       |  | 32        | 25.80     | 3.35       |
| 33        | 29.50     | 3.35       |  |           |           |            |

**QUOTE PIANI SISMICI ED INTERPIANI**

| Quota<br>N.ro | Altezza<br>m | Tipologia     | IrregTamp |      | Quota<br>N.ro | Altezza<br>m | Tipologia     | IrregTamp |      |
|---------------|--------------|---------------|-----------|------|---------------|--------------|---------------|-----------|------|
|               |              |               | XY        | Alt. |               |              |               | XY        | Alt. |
| 0             | 0.00         | Piano Terra   |           |      | 1             | 1.50         | Piano sismico | NO        | NO   |
| 2             | 2.00         | Piano sismico | NO        | NO   | 3             | 5.00         | Piano sismico | NO        | NO   |
| 4             | 6.00         | Piano sismico | NO        | NO   |               |              |               |           |      |

**PILASTRI IN C.A. QUOTA 1.5 m**

| Filo<br>N.ro | Sez.<br>N.ro | Tipologia<br>(cm)   | Magrone<br>(cm) | Ang.<br>(Grd) | Cod. | dx<br>(cm) | dy<br>(cm) | Crit.<br>N.ro | Tipo Elemento<br>ai fini sismici |
|--------------|--------------|---------------------|-----------------|---------------|------|------------|------------|---------------|----------------------------------|
| 24           | 1            | Rett. 30.00 x 30.00 | 0.0             | 0.00          | 0    | 0.00       | 0.00       | 3             | SismoResist.                     |

**PILASTRI IN C.A. QUOTA 2 m**

| Filo<br>N.ro | Sez.<br>N.ro | Tipologia<br>(cm)   | Magrone<br>(cm) | Ang.<br>(Grd) | Cod. | dx<br>(cm) | dy<br>(cm) | Crit.<br>N.ro | Tipo Elemento<br>ai fini sismici |
|--------------|--------------|---------------------|-----------------|---------------|------|------------|------------|---------------|----------------------------------|
| 24           | 1            | Rett. 30.00 x 30.00 | 0.0             | 0.00          | 0    | 0.00       | 0.00       | 3             | SismoResist.                     |

**PILASTRI IN C.A. QUOTA 5 m**

| Filo<br>N.ro | Sez.<br>N.ro | Tipologia<br>(cm)   | Magrone<br>(cm) | Ang.<br>(Grd) | Cod. | dx<br>(cm) | dy<br>(cm) | Crit.<br>N.ro | Tipo Elemento<br>ai fini sismici |
|--------------|--------------|---------------------|-----------------|---------------|------|------------|------------|---------------|----------------------------------|
| 1            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 1    | 20.00      | 20.00      | 3             | SismoResist.                     |
| 2            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 5    | 0.00       | 20.00      | 3             | SismoResist.                     |
| 3            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 5    | 0.00       | 20.00      | 3             | SismoResist.                     |
| 4            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 5    | 0.00       | 20.00      | 3             | SismoResist.                     |
| 5            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 5    | 0.00       | 20.00      | 3             | SismoResist.                     |
| 6            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 5    | 0.00       | 20.00      | 3             | SismoResist.                     |
| 7            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 5    | 0.00       | 20.00      | 3             | SismoResist.                     |
| 8            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 5    | 0.00       | 20.00      | 3             | SismoResist.                     |
| 9            | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 4    | -20.00     | 20.00      | 3             | SismoResist.                     |
| 10           | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 2    | 20.00      | -20.00     | 3             | SismoResist.                     |
| 11           | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 7    | 0.00       | -20.00     | 3             | SismoResist.                     |
| 12           | 5            | Rett. 40.00 x 40.00 | 0.0             | 0.00          | 7    | 0.00       | -20.00     | 3             | SismoResist.                     |

**PILASTRI IN C.A. QUOTA 5 m**

| Filo<br>N.ro | Sez.<br>N.ro | Tipologia<br>(cm) |               | Magrone<br>(cm) | Ang.<br>(Grd) | Cod. | dx<br>(cm) | dy<br>(cm) | Crit.<br>N.ro | Tipo Elemento<br>ai fini sismici |
|--------------|--------------|-------------------|---------------|-----------------|---------------|------|------------|------------|---------------|----------------------------------|
| 13           | 5            | Rett.             | 40.00 x 40.00 | 0.0             | 0.00          | 7    | 0.00       | -20.00     | 3             | SismoResist.                     |
| 14           | 5            | Rett.             | 40.00 x 40.00 | 0.0             | 0.00          | 7    | 0.00       | -20.00     | 3             | SismoResist.                     |
| 15           | 5            | Rett.             | 40.00 x 40.00 | 0.0             | 0.00          | 7    | 0.00       | -20.00     | 3             | SismoResist.                     |
| 16           | 5            | Rett.             | 40.00 x 40.00 | 0.0             | 0.00          | 7    | 0.00       | -20.00     | 3             | SismoResist.                     |
| 17           | 5            | Rett.             | 40.00 x 40.00 | 0.0             | 0.00          | 7    | 0.00       | -20.00     | 3             | SismoResist.                     |
| 18           | 5            | Rett.             | 40.00 x 40.00 | 0.0             | 0.00          | 3    | -20.00     | -20.00     | 3             | SismoResist.                     |

**SETTI ALLA QUOTA 1.5 m**

| Sett<br>N.ro | Sez<br>N.r | GEOMETRIA |            |            | QUOTE        |              | SCOSTAMENTI |           |           |           |           |           | CARICHI VERTICALI |      |      |      |      |             | PRESSIONI      |       | RINFORZI MUR |                 |       |            |           |            |  |
|--------------|------------|-----------|------------|------------|--------------|--------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------------|------|------|------|------|-------------|----------------|-------|--------------|-----------------|-------|------------|-----------|------------|--|
|              |            | Sp.<br>cm | Fil<br>in. | Fil<br>fin | Q.in.<br>(m) | Q.fin<br>(m) | Dxi<br>cm   | Dyi<br>cm | Dzi<br>cm | Dxf<br>cm | Dyf<br>cm | Dzf<br>cm | Pann<br>daN/m     | Tamp | Ball | Espl | Tot. | Torc<br>daN | Orizz<br>daN/m | Assia | Ali<br>%     | Psup.<br>daN/mq | Pinf. | Mat<br>Nro | Ini<br>cm | Fin.<br>cm |  |
| 1            | 601        | 25        | 3          | 5          | 1.50         | 1.50         | 0           | 13        | 0         | 0         | 13        | 0         | 0                 | 0    | 0    | 0    | 0    | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |
| 2            | 601        | 25        | 3          | 19         | 1.50         | 1.50         | 0           | 0         | 0         | 0         | 0         | 0         | 0                 | 0    | 0    | 0    | 0    | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |
| 3            | 601        | 25        | 22         | 23         | 1.50         | 1.50         | 0           | -13       | 0         | 0         | -13       | 0         | 0                 | 0    | 0    | 0    | 0    | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |
| 4            | 601        | 25        | 23         | 20         | 1.50         | 1.50         | 0           | -13       | 0         | 0         | -13       | 0         | 0                 | 0    | 0    | 0    | 0    | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |
| 5            | 601        | 25        | 19         | 20         | 1.50         | 1.50         | 0           | 0         | 0         | 0         | 0         | 0         | 0                 | 0    | 0    | 0    | 0    | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |
| 6            | 601        | 25        | 5          | 21         | 1.50         | 1.50         | 0           | 0         | 0         | 0         | 0         | 0         | 0                 | 0    | 0    | 0    | 0    | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |
| 7            | 601        | 25        | 21         | 22         | 1.50         | 1.50         | 0           | 0         | 0         | 0         | 0         | 0         | 0                 | 0    | 0    | 0    | 0    | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |

**TRAVI IN C.A. ALLA QUOTA 2 m**

| Trav<br>N.ro | Sez.<br>N.ro | DATI GENERALI            |            |            | QUOTE      |              | SCOSTAMENTI  |           |           |           |           |           | CARICHI   |                |                |                |                |               | Cr  | Cit |              |                 |                 |          |
|--------------|--------------|--------------------------|------------|------------|------------|--------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|----------------|----------------|----------------|---------------|-----|-----|--------------|-----------------|-----------------|----------|
|              |              | Tipo Elem.<br>x il sisma | Ang<br>Grd | Fil<br>in. | Fil<br>fin | Q.in.<br>(m) | Q.fin<br>(m) | Dxi<br>cm | Dyi<br>cm | Dzi<br>cm | Dxf<br>cm | Dyf<br>cm | Dzf<br>cm | Pann.<br>daN/m | Tamp.<br>daN/m | Ball.<br>daN/m | Espl.<br>daN/m | Tot.<br>daN/m |     |     | Torc.<br>daN | Orizz.<br>daN/m | Assial<br>daN/m | Ali<br>% |
| 25           | 1            | Tel.SismoRes.            | 0          | 19         | 24         | 2.00         | 2.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 368            | 0              | 0              | 200           | 568 | 0   | 0            | 0               | 80              | 1        |
| 26           | 1            | Tel.SismoRes.            | 0          | 24         | 21         | 2.00         | 2.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 368            | 0              | 0              | 200           | 568 | 0   | 0            | 0               | 80              | 1        |

**SETTI ALLA QUOTA 2 m**

| Sett<br>N.ro | Sez<br>N.r | GEOMETRIA |            |            | QUOTE        |              | SCOSTAMENTI |           |           |           |           |           | CARICHI VERTICALI |      |      |      |      |             | PRESSIONI      |       | RINFORZI MUR |                 |       |            |           |            |  |
|--------------|------------|-----------|------------|------------|--------------|--------------|-------------|-----------|-----------|-----------|-----------|-----------|-------------------|------|------|------|------|-------------|----------------|-------|--------------|-----------------|-------|------------|-----------|------------|--|
|              |            | Sp.<br>cm | Fil<br>in. | Fil<br>fin | Q.in.<br>(m) | Q.fin<br>(m) | Dxi<br>cm   | Dyi<br>cm | Dzi<br>cm | Dxf<br>cm | Dyf<br>cm | Dzf<br>cm | Pann<br>daN/m     | Tamp | Ball | Espl | Tot. | Torc<br>daN | Orizz<br>daN/m | Assia | Ali<br>%     | Psup.<br>daN/mq | Pinf. | Mat<br>Nro | Ini<br>cm | Fin.<br>cm |  |
| 1            | 601        | 25        | 1          | 2          | 2.00         | 2.00         | 1           | 13        | 0         | 0         | 13        | 0         | 0                 | 841  | 0    | 0    | 841  | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |
| 2            | 601        | 25        | 2          | 3          | 2.00         | 2.00         | 1           | 13        | 0         | 0         | 13        | 0         | 0                 | 828  | 0    | 0    | 828  | 0           | 0              | 0     | 0            | 0               | 0     |            |           |            |  |

SETTI ALLA QUOTA 2 m

| GEOMETRIA |     | QUOTE |     | SCOSTAMENTI |       |       |     |     | CARICHI VERTICALI |     |     |     |         |      |      | PRESSIONI |      | RINFORZI MUR |       |       |        |       |       |     |     |      |
|-----------|-----|-------|-----|-------------|-------|-------|-----|-----|-------------------|-----|-----|-----|---------|------|------|-----------|------|--------------|-------|-------|--------|-------|-------|-----|-----|------|
| Sett      | Sez | Sp.   | Fil | Fil         | Q in. | Q.fin | Dxi | Dyi | Dzi               | Dxf | Dyf | Dzf | Pann    | Tamp | Ball | Espl      | Tot. | Torc         | Orizz | Assia | Ali    | Psup. | Pinf. | Mat | Ini | Fin. |
| N.ro      | N.r | cm    | in. | fin         | (m)   | (m)   | cm  | cm  | cm                | cm  | cm  | cm  | daN / m |      |      |           | daN  | daN / m      |       | %     | daN/mq |       | Nro   | cm  | cm  |      |
| 3         | 601 | 25    | 3   | 4           | 2.00  | 2.00  | 1   | 13  | 0                 | 0   | 13  | 0   | 0       | 883  | 560  | 0         | 1443 | 0            | 0     | 0     | 80     | 0     | 0     |     |     |      |
| 4         | 601 | 25    | 4   | 5           | 2.00  | 2.00  | 1   | 13  | 0                 | 0   | 13  | 0   | 0       | 883  | 560  | 0         | 1443 | 0            | 0     | 0     | 80     | 0     | 0     |     |     |      |
| 5         | 601 | 25    | 5   | 6           | 2.00  | 2.00  | 1   | 13  | 0                 | 0   | 13  | 0   | 0       | 856  | 0    | 0         | 856  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 6         | 601 | 25    | 6   | 7           | 2.00  | 2.00  | 1   | 13  | 0                 | 0   | 13  | 0   | 0       | 866  | 0    | 0         | 866  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 7         | 601 | 25    | 7   | 8           | 2.00  | 2.00  | 1   | 13  | 0                 | 0   | 13  | 0   | 0       | 850  | 0    | 0         | 850  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 8         | 601 | 25    | 8   | 9           | 2.00  | 2.00  | 1   | 13  | 0                 | 0   | 13  | 0   | 0       | 861  | 0    | 0         | 861  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 9         | 601 | 25    | 10  | 11          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 841  | 0    | 0         | 841  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 10        | 601 | 25    | 11  | 12          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 828  | 0    | 0         | 828  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 11        | 601 | 25    | 12  | 13          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 883  | 0    | 0         | 883  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 12        | 601 | 25    | 13  | 14          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 883  | 0    | 0         | 883  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 13        | 601 | 25    | 14  | 15          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 856  | 0    | 0         | 856  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 14        | 601 | 25    | 15  | 16          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 866  | 0    | 0         | 866  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 15        | 601 | 25    | 16  | 17          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 850  | 0    | 0         | 850  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 16        | 601 | 25    | 17  | 18          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 0       | 861  | 0    | 0         | 861  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 17        | 601 | 25    | 1   | 10          | 2.00  | 2.00  | 13  | 0   | 0                 | 13  | 0   | 0   | 0       | 946  | 0    | 0         | 946  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 18        | 601 | 25    | 9   | 18          | 2.00  | 2.00  | -13 | 0   | 0                 | -13 | 0   | 0   | 0       | 946  | 0    | 0         | 946  | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 19        | 601 | 25    | 3   | 19          | 2.00  | 2.00  | 0   | 0   | 0                 | 0   | 0   | 0   | 0       | 0    | 0    | 0         | 0    | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 20        | 601 | 25    | 19  | 20          | 2.00  | 2.00  | 0   | 0   | 0                 | 0   | 0   | 0   | 0       | 0    | 0    | 0         | 0    | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 21        | 601 | 25    | 5   | 21          | 2.00  | 2.00  | 0   | 0   | 0                 | 0   | 0   | 0   | 0       | 0    | 0    | 0         | 0    | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 22        | 601 | 25    | 21  | 22          | 2.00  | 2.00  | 0   | 0   | 0                 | 0   | 0   | 0   | 0       | 0    | 0    | 0         | 0    | 0            | 0     | 0     | 0      | 0     | 0     |     |     |      |
| 23        | 601 | 25    | 20  | 23          | 2.00  | 2.00  | 0   | -13 | 0                 | 0   | -13 | 0   | 365     | 0    | 0    | 0         | 365  | 0            | 0     | 0     | 80     | 0     | 0     |     |     |      |
| 24        | 601 | 25    | 23  | 22          | 2.00  | 2.00  | 1   | -13 | 0                 | 0   | -13 | 0   | 365     | 0    | 0    | 0         | 365  | 0            | 0     | 0     | 80     | 0     | 0     |     |     |      |

TRAVI IN C.A. ALLA QUOTA 5 m

| DATI GENERALI |      | QUOTE         |     | SCOSTAMENTI |     |       |       |     | CARICHI |     |     |     |     |       |       |       |       |       | Cr    | Cit    |        |     |    |     |
|---------------|------|---------------|-----|-------------|-----|-------|-------|-----|---------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|--------|--------|-----|----|-----|
| Trav          | Sez. | Tipo Elem.    | Ang | Fil         | Fil | Q in. | Q.fin | Dxi | Dyi     | Dzi | Dxf | Dyf | Dzf | Pann. | Tamp. | Ball. | Espl. | Tot.  | Torc. | Orizz. | Assial | Ali | Cr | Cit |
| N.ro          | N.ro | x il sisma    | Grd | in.         | fin | (m)   | (m)   | cm  | cm      | cm  | cm  | cm  | cm  | daN/m | daN/m | daN/m | daN/m | daN/m | daN   | daN/m  | daN/m  | %   | Nr | Geo |
| 1             | 6    | Tel.SismoRes. | 0   | 1           | 25  | 5.00  | 6.00  | 20  | 2       | 0   | 20  | 0   | 0   | 717   | 0     | 0     | 0     | 717   | 0     | 0      | 0      | 0   | 1  |     |
| 2             | 6    | Tel.SismoRes. | 0   | 9           | 33  | 5.00  | 6.00  | -20 | 0       | 0   | -20 | -2  | 0   | 797   | 0     | 0     | 0     | 797   | 0     | 0      | 0      | 0   | 1  |     |
| 3             | 6    | Tel.SismoRes. | 0   | 10          | 25  | 5.00  | 6.00  | 20  | 0       | 0   | 20  | 0   | 0   | 716   | 0     | 0     | 0     | 716   | 0     | 0      | 0      | 0   | 1  |     |
| 4             | 6    | Tel.SismoRes. | 0   | 18          | 33  | 5.00  | 6.00  | -20 | -2      | 0   | -20 | 0   | 0   | 797   | 0     | 0     | 0     | 797   | 0     | 0      | 0      | 0   | 1  |     |
| 5             | 9    | Tel.SismoRes. | 0   | 2           | 26  | 5.00  | 6.00  | 0   | 0       | 0   | 0   | 0   | 0   | 1299  | 0     | 0     | 0     | 1299  | 0     | 0      | 0      | 0   | 1  |     |

TRAVI IN C.A. ALLA QUOTA 5 m

|      |      | DATI GENERALI |     |     |     | QUOTE |       | SCOSTAMENTI |     |     |     |     |     | CARICHI |       |       |       |       |       |        |        |     |    |     |  |  |
|------|------|---------------|-----|-----|-----|-------|-------|-------------|-----|-----|-----|-----|-----|---------|-------|-------|-------|-------|-------|--------|--------|-----|----|-----|--|--|
| Trav | Sez. | Typo Elem.    | Ang | Fil | Fil | Q in. | Q.fin | Dxi         | Dyi | Dzi | Dxf | Dyf | Dzf | Pann.   | Tamp. | Ball. | Espl. | Tot.  | Torc. | Orizz. | Assial | Ali | Cr | Cit |  |  |
| N.ro | N.ro | x il sisma    | Grd | in. | fin | (m)   | (m)   | cm          | cm  | cm  | cm  | cm  | cm  | daN/m   | daN/m | daN/m | daN/m | daN/m | daN   | daN/m  | daN/m  | %   | Nr | Geo |  |  |
| 6    | 9    | Tel.SismoRes. | 0   | 6   | 30  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1552    | 0     | 0     | 0     | 1552  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 7    | 9    | Tel.SismoRes. | 0   | 7   | 31  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1529    | 0     | 0     | 0     | 1529  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 8    | 9    | Tel.SismoRes. | 0   | 8   | 32  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1461    | 0     | 0     | 0     | 1461  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 9    | 9    | Tel.SismoRes. | 0   | 3   | 27  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1540    | 0     | 0     | 0     | 1540  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 10   | 9    | Tel.SismoRes. | 0   | 4   | 28  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1782    | 0     | 0     | 0     | 1782  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 11   | 9    | Tel.SismoRes. | 0   | 5   | 29  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1644    | 0     | 0     | 0     | 1644  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 12   | 9    | Tel.SismoRes. | 0   | 11  | 26  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1299    | 0     | 0     | 0     | 1299  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 13   | 9    | Tel.SismoRes. | 0   | 15  | 30  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1552    | 0     | 0     | 0     | 1552  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 14   | 9    | Tel.SismoRes. | 0   | 16  | 31  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1529    | 0     | 0     | 0     | 1529  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 15   | 9    | Tel.SismoRes. | 0   | 17  | 32  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1460    | 0     | 0     | 0     | 1460  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 16   | 9    | Tel.SismoRes. | 0   | 12  | 27  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1540    | 0     | 0     | 0     | 1540  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 17   | 9    | Tel.SismoRes. | 0   | 13  | 28  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1782    | 0     | 0     | 0     | 1782  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 18   | 9    | Tel.SismoRes. | 0   | 14  | 29  | 5.00  | 6.00  | 0           | 0   | 0   | 0   | 0   | 0   | 1644    | 0     | 0     | 0     | 1644  | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 19   | 5    | Tel.SismoRes. | 0   | 1   | 2   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 20   | 5    | Tel.SismoRes. | 0   | 2   | 3   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 21   | 5    | Tel.SismoRes. | 0   | 3   | 4   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 22   | 5    | Tel.SismoRes. | 0   | 4   | 5   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 23   | 5    | Tel.SismoRes. | 0   | 5   | 6   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 24   | 5    | Tel.SismoRes. | 0   | 6   | 7   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 25   | 5    | Tel.SismoRes. | 0   | 7   | 8   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 26   | 5    | Tel.SismoRes. | 0   | 8   | 9   | 5.00  | 5.00  | 1           | 20  | 0   | 0   | 20  | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 27   | 5    | Tel.SismoRes. | 0   | 10  | 11  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 28   | 5    | Tel.SismoRes. | 0   | 11  | 12  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 29   | 5    | Tel.SismoRes. | 0   | 12  | 13  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 30   | 5    | Tel.SismoRes. | 0   | 13  | 14  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 31   | 5    | Tel.SismoRes. | 0   | 14  | 15  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 32   | 5    | Tel.SismoRes. | 0   | 15  | 16  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 33   | 5    | Tel.SismoRes. | 0   | 16  | 17  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |
| 34   | 5    | Tel.SismoRes. | 0   | 17  | 18  | 5.00  | 5.00  | 2           | -20 | 0   | 0   | -20 | 0   | 0       | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0   | 0  | 1   |  |  |

TRAVI IN C.A. ALLA QUOTA 6 m

|  |  | DATI GENERALI |  |  |  | QUOTE |  | SCOSTAMENTI |  |  |  |  |  | CARICHI |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|---------------|--|--|--|-------|--|-------------|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|--|
|--|--|---------------|--|--|--|-------|--|-------------|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|--|

| Trav<br>N.ro | Sez.<br>N.ro | Tipo Elem.<br>x il sisma | Ang<br>Grd | Fil<br>in. | Fil<br>fin | Q in.<br>(m) | Q.fin<br>(m) | Dxi<br>cm | Dyi<br>cm | Dzi<br>cm | Dxf<br>cm | Dyf<br>cm | Dzf<br>cm | Pann.<br>daN/m | Tamp.<br>daN/m | Ball.<br>daN/m | Espl.<br>daN/m | Tot.<br>daN/m | Torc.<br>daN | Orizz.<br>daN/m | Assial<br>daN/m | Ali<br>% | Cr<br>Nr | Cit<br>Geo |
|--------------|--------------|--------------------------|------------|------------|------------|--------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|----------------|----------------|----------------|---------------|--------------|-----------------|-----------------|----------|----------|------------|
| 1            | 25           | Tel.SismoRes.            | 0          | 25         | 26         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |
| 5            | 25           | Tel.SismoRes.            | 0          | 26         | 27         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |
| 6            | 25           | Tel.SismoRes.            | 0          | 27         | 28         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |
| 7            | 25           | Tel.SismoRes.            | 0          | 28         | 29         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |
| 8            | 25           | Tel.SismoRes.            | 0          | 29         | 30         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |
| 9            | 25           | Tel.SismoRes.            | 0          | 30         | 31         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |
| 10           | 25           | Tel.SismoRes.            | 0          | 31         | 32         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |
| 11           | 25           | Tel.SismoRes.            | 0          | 32         | 33         | 6.00         | 6.00         | 0         | 0         | 0         | 0         | 0         | 0         | 0              | 0              | 0              | 0              | 0             | 0            | 0               | 0               | 0        | 0        | 1          |

**GEOMETRIA PIASTRE ALLA QUOTA 0 m**

| Piastra<br>N.ro | Filo<br>1 | Filo<br>2 | Filo<br>3 | Filo<br>4 | Tipo<br>Car. | Quota<br>Filo1 | Quota<br>Filo2 | Quota<br>Filo3 | Quota<br>Filo4 | Tipo<br>Sez. | Spess.<br>cm | Kwinkl.<br>daN/cmc | Tipo<br>Mat. |
|-----------------|-----------|-----------|-----------|-----------|--------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------------|--------------|
| 1               | 3         | 4         | 24        | 19        | 3            | 0              | 0              | 0              | 0              | 1            | 25.0         | 10.0               | 1            |
| 2               | 4         | 5         | 21        | 24        | 3            | 0              | 0              | 0              | 0              | 1            | 25.0         | 10.0               | 1            |
| 3               | 24        | 21        | 22        | 23        | 3            | 0              | 0              | 0              | 0              | 1            | 25.0         | 10.0               | 1            |
| 4               | 19        | 24        | 23        | 20        | 3            | 0              | 0              | 0              | 0              | 1            | 25.0         | 10.0               | 1            |

**GEOMETRIA PIASTRE ALLA QUOTA 1.5 m**

| Piastra<br>N.ro | Filo<br>1 | Filo<br>2 | Filo<br>3 | Filo<br>4 | Tipo<br>Car. | Quota<br>Filo1 | Quota<br>Filo2 | Quota<br>Filo3 | Quota<br>Filo4 | Tipo<br>Sez. | Spess.<br>cm | Kwinkl.<br>daN/cmc | Tipo<br>Mat. |
|-----------------|-----------|-----------|-----------|-----------|--------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------------|--------------|
| 1               | 1         | 2         | 11        | 10        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |
| 2               | 2         | 3         | 12        | 11        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |
| 3               | 20        | 23        | 13        | 12        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |
| 4               | 23        | 22        | 14        | 13        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |
| 5               | 5         | 6         | 15        | 14        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |
| 6               | 6         | 7         | 16        | 15        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |
| 7               | 7         | 8         | 17        | 16        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |
| 8               | 8         | 9         | 18        | 17        | 3            | 1              | 1              | 1              | 1              | 1            | 25.0         | 10.0               | 1            |

**NODI INTERNI SHELL**

| IDENT. | POSIZIONE NODO |         |         | ATTRIBUTI |         |
|--------|----------------|---------|---------|-----------|---------|
| Nodo3d | Coord.X        | Coord.Y | Coord.Z | Piano     | Peso    |
| N.ro   | (m)            | (m)     | (m)     | Sism.     | (kN*10) |
| 213    | 7.55           | 0.00    | 0.00    | 0.00      | 0.65    |
| 214    | 8.60           | 0.00    | 0.00    | 0.00      | 0.65    |
| 215    | 9.65           | 0.00    | 0.00    | 0.00      | 0.65    |
| 216    | 6.50           | 1.10    | 0.00    | 0.00      | 0.91    |
| 217    | 7.55           | 1.10    | 0.00    | 0.00      | 1.30    |
| 218    | 8.60           | 1.10    | 0.00    | 0.00      | 1.30    |
| 219    | 9.65           | 1.10    | 0.00    | 0.00      | 1.30    |
| 220    | 10.70          | 1.10    | 0.00    | 0.00      | 1.30    |
| 221    | 7.55           | 2.20    | 0.00    | 0.00      | 1.03    |
| 222    | 8.60           | 2.20    | 0.00    | 0.00      | 1.03    |
| 223    | 9.65           | 2.20    | 0.00    | 0.00      | 1.03    |
| 224    | 11.75          | 0.00    | 0.00    | 0.00      | 0.65    |
| 225    | 12.80          | 0.00    | 0.00    | 0.00      | 0.65    |
| 226    | 13.85          | 0.00    | 0.00    | 0.00      | 0.65    |
| 227    | 11.75          | 1.10    | 0.00    | 0.00      | 1.30    |
| 228    | 12.80          | 1.10    | 0.00    | 0.00      | 1.30    |
| 229    | 13.85          | 1.10    | 0.00    | 0.00      | 1.30    |
| 230    | 14.90          | 1.10    | 0.00    | 0.00      | 0.91    |
| 231    | 11.75          | 2.20    | 0.00    | 0.00      | 1.03    |
| 232    | 12.80          | 2.20    | 0.00    | 0.00      | 1.03    |
| 233    | 13.85          | 2.20    | 0.00    | 0.00      | 1.03    |
| 234    | 10.70          | 2.85    | 0.00    | 0.00      | 0.77    |
| 235    | 11.75          | 2.85    | 0.00    | 0.00      | 0.77    |
| 236    | 12.80          | 2.85    | 0.00    | 0.00      | 0.77    |
| 237    | 13.85          | 2.85    | 0.00    | 0.00      | 0.77    |
| 238    | 14.90          | 2.85    | 0.00    | 0.00      | 0.54    |



**NODI INTERNI SHELL**

| IDENT. | POSIZIONE NODO |         |         | ATTRIBUTI |         |
|--------|----------------|---------|---------|-----------|---------|
| Nodo3d | Coord.X        | Coord.Y | Coord.Z | Piano     | Peso    |
| N.ro   | (m)            | (m)     | (m)     | Sism.     | (kN*10) |
| 239    | 11.75          | 3.50    | 0.00    | 0.00      | 0.63    |
| 240    | 12.80          | 3.50    | 0.00    | 0.00      | 0.63    |
| 241    | 13.85          | 3.50    | 0.00    | 0.00      | 0.63    |
| 242    | 6.50           | 2.85    | 0.00    | 0.00      | 0.54    |
| 243    | 7.55           | 2.85    | 0.00    | 0.00      | 0.77    |
| 244    | 8.60           | 2.85    | 0.00    | 0.00      | 0.77    |
| 245    | 9.65           | 2.85    | 0.00    | 0.00      | 0.77    |
| 246    | 7.55           | 3.50    | 0.00    | 0.00      | 0.63    |
| 247    | 8.60           | 3.50    | 0.00    | 0.00      | 0.63    |
| 248    | 9.65           | 3.50    | 0.00    | 0.00      | 0.63    |
| 249    | 7.90           | 0.00    | 0.00    | 0.00      | 0.33    |
| 250    | 9.30           | 0.00    | 0.00    | 0.00      | 0.33    |
| 251    | 12.10          | 0.00    | 0.00    | 0.00      | 0.33    |
| 252    | 13.50          | 0.00    | 0.00    | 0.00      | 0.33    |
| 253    | 6.50           | 0.00    | 0.75    | 0.00      | 0.59    |
| 254    | 7.90           | 0.00    | 0.75    | 0.00      | 0.66    |
| 255    | 9.30           | 0.00    | 0.75    | 0.00      | 0.66    |
| 256    | 10.70          | 0.00    | 0.75    | 0.00      | 0.66    |
| 257    | 12.10          | 0.00    | 0.75    | 0.00      | 0.66    |
| 258    | 13.50          | 0.00    | 0.75    | 0.00      | 0.66    |
| 259    | 14.90          | 0.00    | 0.75    | 0.00      | 0.59    |
| 260    | 7.90           | 0.00    | 1.50    | 1.00      | 0.33    |
| 261    | 9.30           | 0.00    | 1.50    | 1.00      | 0.33    |
| 262    | 12.10          | 0.00    | 1.50    | 1.00      | 0.33    |
| 263    | 13.50          | 0.00    | 1.50    | 1.00      | 0.33    |
| 264    | 6.50           | 1.10    | 0.75    | 0.00      | 0.52    |

**NODI INTERNI SHELL**

| IDENT. | POSIZIONE NODO |         |         | ATTRIBUTI |         |
|--------|----------------|---------|---------|-----------|---------|
| Nodo3d | Coord.X        | Coord.Y | Coord.Z | Piano     | Peso    |
| N.ro   | (m)            | (m)     | (m)     | Sism.     | (kN*10) |
| 265    | 6.50           | 2.20    | 0.75    | 0.00      | 0.41    |
| 266    | 6.50           | 1.10    | 1.50    | 1.00      | 0.43    |
| 267    | 14.90          | 3.50    | 0.75    | 0.00      | 0.40    |
| 268    | 13.85          | 3.50    | 0.75    | 0.00      | 0.49    |
| 269    | 12.80          | 3.50    | 0.75    | 0.00      | 0.49    |
| 270    | 11.75          | 3.50    | 0.75    | 0.00      | 0.49    |
| 271    | 10.70          | 3.50    | 0.75    | 0.00      | 0.49    |
| 272    | 9.65           | 3.50    | 0.75    | 0.00      | 0.49    |
| 273    | 8.60           | 3.50    | 0.75    | 0.00      | 0.49    |
| 274    | 7.55           | 3.50    | 0.75    | 0.00      | 0.49    |
| 275    | 6.50           | 3.50    | 0.75    | 0.00      | 0.40    |
| 276    | 6.50           | 2.85    | 0.75    | 0.00      | 0.30    |
| 277    | 6.50           | 2.85    | 1.50    | 1.00      | 0.25    |
| 278    | 14.90          | 1.10    | 0.75    | 0.00      | 0.52    |
| 279    | 14.90          | 2.20    | 0.75    | 0.00      | 0.41    |
| 280    | 14.90          | 1.10    | 1.50    | 1.00      | 0.43    |
| 281    | 14.90          | 2.85    | 0.75    | 0.00      | 0.30    |
| 282    | 14.90          | 2.85    | 1.50    | 1.00      | 0.25    |
| 283    | 0.84           | 0.00    | 1.50    | 1.00      | 0.92    |
| 284    | 1.67           | 0.00    | 1.50    | 1.00      | 0.92    |
| 285    | 2.51           | 0.00    | 1.50    | 1.00      | 0.92    |
| 286    | 0.00           | 1.67    | 1.50    | 1.00      | 1.05    |
| 287    | 0.84           | 1.67    | 1.50    | 1.00      | 1.58    |
| 288    | 1.67           | 1.67    | 1.50    | 1.00      | 1.58    |
| 289    | 2.51           | 1.67    | 1.50    | 1.00      | 1.58    |
| 290    | 0.00           | 3.35    | 1.50    | 1.00      | 1.05    |

**NODI INTERNI SHELL**

| IDENT. |         | POSIZIONE NODO |         |       | ATTRIBUTI |  |
|--------|---------|----------------|---------|-------|-----------|--|
| Nodo3d | Coord.X | Coord.Y        | Coord.Z | Piano | Peso      |  |
| N.ro   | (m)     | (m)            | (m)     | Sism. | (kN*10)   |  |
| 291    | 0.84    | 3.35           | 1.50    | 1.00  | 1.58      |  |
| 292    | 1.67    | 3.35           | 1.50    | 1.00  | 1.58      |  |
| 293    | 2.51    | 3.35           | 1.50    | 1.00  | 1.58      |  |
| 294    | 0.00    | 5.02           | 1.50    | 1.00  | 1.05      |  |
| 295    | 0.84    | 5.02           | 1.50    | 1.00  | 1.58      |  |
| 296    | 1.67    | 5.02           | 1.50    | 1.00  | 1.58      |  |
| 297    | 2.51    | 5.02           | 1.50    | 1.00  | 1.58      |  |
| 298    | 0.84    | 6.70           | 1.50    | 1.00  | 0.92      |  |
| 299    | 1.67    | 6.70           | 1.50    | 1.00  | 0.92      |  |
| 300    | 2.51    | 6.70           | 1.50    | 1.00  | 0.92      |  |
| 301    | 0.84    | 0.00           | 2.00    | 2.00  | 0.84      |  |
| 302    | 1.67    | 0.00           | 2.00    | 2.00  | 0.84      |  |
| 303    | 2.51    | 0.00           | 2.00    | 2.00  | 0.84      |  |
| 304    | 4.14    | 0.00           | 2.00    | 2.00  | 0.77      |  |
| 305    | 4.93    | 0.00           | 2.00    | 2.00  | 0.77      |  |
| 306    | 5.71    | 0.00           | 2.00    | 2.00  | 0.77      |  |
| 307    | 7.55    | 0.00           | 1.50    | 1.00  | 0.16      |  |
| 308    | 8.60    | 0.00           | 1.50    | 1.00  | 0.16      |  |
| 309    | 9.65    | 0.00           | 1.50    | 1.00  | 0.16      |  |
| 310    | 7.55    | 0.00           | 2.00    | 2.00  | 1.67      |  |
| 311    | 8.60    | 0.00           | 2.00    | 2.00  | 1.67      |  |
| 312    | 9.65    | 0.00           | 2.00    | 2.00  | 1.67      |  |
| 313    | 11.75   | 0.00           | 1.50    | 1.00  | 0.16      |  |
| 314    | 12.80   | 0.00           | 1.50    | 1.00  | 0.16      |  |
| 315    | 13.85   | 0.00           | 1.50    | 1.00  | 0.16      |  |
| 316    | 11.75   | 0.00           | 2.00    | 2.00  | 1.67      |  |

**NODI INTERNI SHELL**

| IDENT. | POSIZIONE NODO |         |         | ATTRIBUTI |         |
|--------|----------------|---------|---------|-----------|---------|
| Nodo3d | Coord.X        | Coord.Y | Coord.Z | Piano     | Peso    |
| N.ro   | (m)            | (m)     | (m)     | Sism.     | (kN*10) |
| 317    | 12.80          | 0.00    | 2.00    | 2.00      | 1.67    |
| 318    | 13.85          | 0.00    | 2.00    | 2.00      | 1.67    |
| 319    | 15.80          | 0.00    | 2.00    | 2.00      | 0.91    |
| 320    | 16.70          | 0.00    | 2.00    | 2.00      | 0.91    |
| 321    | 17.60          | 0.00    | 2.00    | 2.00      | 0.91    |
| 322    | 19.45          | 0.00    | 2.00    | 2.00      | 0.97    |
| 323    | 20.40          | 0.00    | 2.00    | 2.00      | 0.97    |
| 324    | 21.35          | 0.00    | 2.00    | 2.00      | 0.97    |
| 325    | 23.17          | 0.00    | 2.00    | 2.00      | 0.88    |
| 326    | 24.05          | 0.00    | 2.00    | 2.00      | 0.88    |
| 327    | 24.92          | 0.00    | 2.00    | 2.00      | 0.88    |
| 328    | 26.72          | 0.00    | 2.00    | 2.00      | 0.94    |
| 329    | 27.65          | 0.00    | 2.00    | 2.00      | 0.94    |
| 330    | 28.58          | 0.00    | 2.00    | 2.00      | 0.94    |
| 331    | 0.84           | 6.70    | 2.00    | 2.00      | 0.84    |
| 332    | 1.67           | 6.70    | 2.00    | 2.00      | 0.84    |
| 333    | 2.51           | 6.70    | 2.00    | 2.00      | 0.84    |
| 334    | 4.14           | 6.70    | 2.00    | 2.00      | 0.77    |
| 335    | 4.93           | 6.70    | 2.00    | 2.00      | 0.77    |
| 336    | 5.71           | 6.70    | 2.00    | 2.00      | 0.77    |
| 337    | 7.55           | 6.70    | 2.00    | 2.00      | 1.09    |
| 338    | 8.60           | 6.70    | 2.00    | 2.00      | 1.09    |
| 339    | 9.65           | 6.70    | 2.00    | 2.00      | 1.09    |
| 340    | 11.75          | 6.70    | 2.00    | 2.00      | 1.09    |
| 341    | 12.80          | 6.70    | 2.00    | 2.00      | 1.09    |
| 342    | 13.85          | 6.70    | 2.00    | 2.00      | 1.09    |

**NODI INTERNI SHELL**

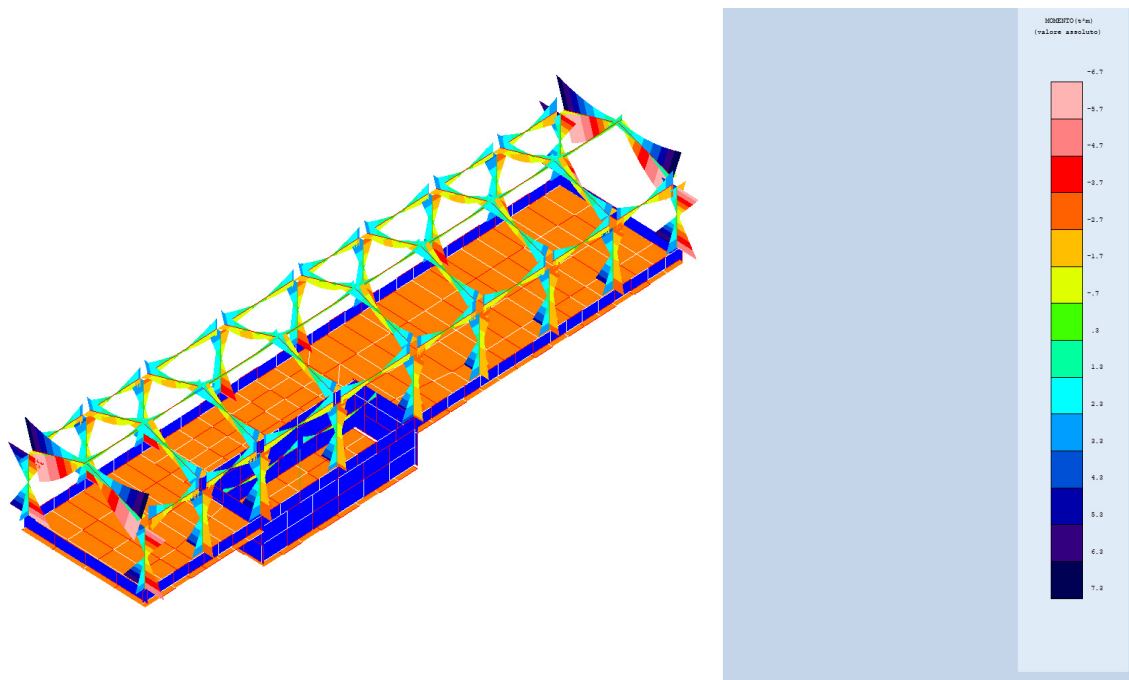
| IDENT. |         | POSIZIONE NODO |         |       | ATTRIBUTI |  |
|--------|---------|----------------|---------|-------|-----------|--|
| Nodo3d | Coord.X | Coord.Y        | Coord.Z | Piano | Peso      |  |
| N.ro   | (m)     | (m)            | (m)     | Sism. | (kN*10)   |  |
| 343    | 15.80   | 6.70           | 2.00    | 2.00  | 0.91      |  |
| 344    | 16.70   | 6.70           | 2.00    | 2.00  | 0.91      |  |
| 345    | 17.60   | 6.70           | 2.00    | 2.00  | 0.91      |  |
| 346    | 19.45   | 6.70           | 2.00    | 2.00  | 0.97      |  |
| 347    | 20.40   | 6.70           | 2.00    | 2.00  | 0.97      |  |
| 348    | 21.35   | 6.70           | 2.00    | 2.00  | 0.97      |  |
| 349    | 23.17   | 6.70           | 2.00    | 2.00  | 0.88      |  |
| 350    | 24.05   | 6.70           | 2.00    | 2.00  | 0.88      |  |
| 351    | 24.92   | 6.70           | 2.00    | 2.00  | 0.88      |  |
| 352    | 26.72   | 6.70           | 2.00    | 2.00  | 0.94      |  |
| 353    | 27.65   | 6.70           | 2.00    | 2.00  | 0.94      |  |
| 354    | 28.58   | 6.70           | 2.00    | 2.00  | 0.94      |  |
| 355    | 0.00    | 1.67           | 2.00    | 2.00  | 1.85      |  |
| 356    | 0.00    | 3.35           | 2.00    | 2.00  | 1.85      |  |
| 357    | 0.00    | 5.02           | 2.00    | 2.00  | 1.85      |  |
| 358    | 29.50   | 1.67           | 2.00    | 2.00  | 1.85      |  |
| 359    | 29.50   | 3.35           | 2.00    | 2.00  | 1.85      |  |
| 360    | 29.50   | 5.02           | 2.00    | 2.00  | 1.85      |  |
| 361    | 6.50    | 1.10           | 2.00    | 2.00  | 0.17      |  |
| 362    | 6.50    | 2.85           | 2.00    | 2.00  | 0.10      |  |
| 363    | 14.90   | 1.10           | 2.00    | 2.00  | 0.17      |  |
| 364    | 14.90   | 2.85           | 2.00    | 2.00  | 0.10      |  |
| 365    | 7.55    | 3.50           | 2.00    | 2.00  | 0.51      |  |
| 366    | 8.60    | 3.50           | 2.00    | 2.00  | 0.51      |  |
| 367    | 9.65    | 3.50           | 2.00    | 2.00  | 0.51      |  |
| 368    | 11.75   | 3.50           | 2.00    | 2.00  | 0.51      |  |

**NODI INTERNI SHELL**

| IDENT. | POSIZIONE NODO |         |         | ATTRIBUTI |         |
|--------|----------------|---------|---------|-----------|---------|
| Nodo3d | Coord.X        | Coord.Y | Coord.Z | Piano     | Peso    |
| N.ro   | (m)            | (m)     | (m)     | Sism.     | (kN*10) |
| 369    | 12.80          | 3.50    | 2.00    | 2.00      | 0.51    |
| 370    | 13.85          | 3.50    | 2.00    | 2.00      | 0.51    |

**7.9. AZIONI SULLA STRUTTURA**

Vengono riportati di seguito gli involuppi dei diagrammi sollecitativi riguardanti i vari casi di carico.



**Figura 10: Involuppo del diagramma del momento**

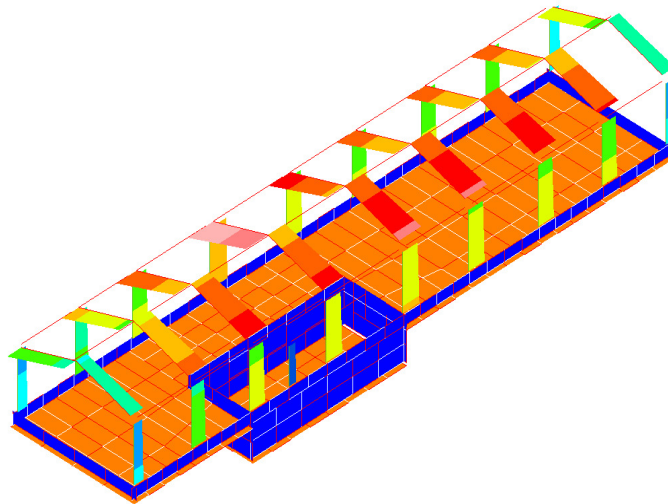


Figura 11: Involuppo dei diagrammi dello sforzo normale

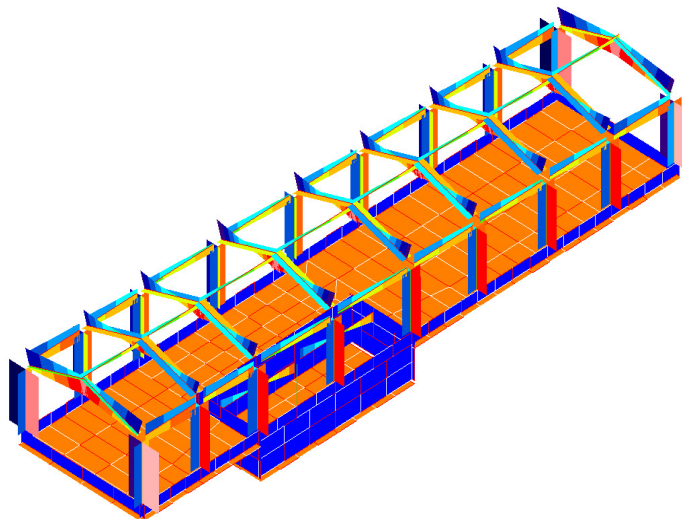


Figura 12: Involuppo dei diagrammi del taglio

Vengono riportati di seguito i tabulati dei carichi applicati sugli elementi costituenti la struttura.

| PULSAZIONI E MODI DI VIBRAZIONE |            |         |        |      |       |       |       |       |       |       |          |          |          |
|---------------------------------|------------|---------|--------|------|-------|-------|-------|-------|-------|-------|----------|----------|----------|
| Modo                            | Pulsazione | Periodo | Smorz  | Sd/g | Sd/g  | Sd/g  | Sd/g  | Sd/g  | Sd/g  | Piano | X        | Y        | Rot      |
| N.ro                            | (rad/sec)  | (sec)   | Mod(%) | SLO  | SLD   | SLV X | SLV Y | SLC X | SLC Y | N.ro  | (m)      | (m)      | (rad)    |
| 1                               | 38.514     | 0.16314 | 5.0    |      | 0.192 | 0.217 | 0.217 |       |       | 1     | -0.00060 | 0.002524 | -0.00020 |
|                                 |            |         |        |      |       |       |       |       |       | 2     | -0.00037 | 0.003955 | -0.00015 |

PULSAZIONI E MODI DI VIBRAZIONE

| Modo<br>N.ro | Pulsazione<br>(rad/sec) | Periodo<br>(sec) | Smorz<br>Mod(%) | Sd/g<br>SLO | Sd/g<br>SLD | Sd/g<br>SLV X | Sd/g<br>SLV Y | Sd/g<br>SLC X | Sd/g<br>SLC Y | Piano<br>N.ro | X<br>(m)  | Y<br>(m)  | Rot<br>(rad) |
|--------------|-------------------------|------------------|-----------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|-----------|-----------|--------------|
| 2            | 48.978                  | 0.12829          | 5.0             |             | 0.179       | 0.223         | 0.223         |               |               | 3             | 0.000464  | 0.087663  | 0.000112     |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | 0.000470  | 0.087313  | 0.000107     |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | 0.001087  | -0.005785 | 0.000379     |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.001339  | -0.006943 | 0.000456     |
| 3            | 49.954                  | 0.12578          | 5.0             |             | 0.177       | 0.223         | 0.223         |               |               | 3             | 0.027476  | -0.142313 | 0.009598     |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | 0.025763  | -0.141568 | 0.009545     |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | 0.003276  | -0.000399 | 0.000026     |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.003564  | -0.000493 | 0.000033     |
| 4            | 156.022                 | 0.04027          | 5.0             |             | 0.108       | 0.236         | 0.236         |               |               | 3             | 0.079201  | -0.008648 | 0.000577     |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | 0.105769  | -0.008606 | 0.000574     |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | 0.018395  | -0.000772 | 0.000050     |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.018740  | -0.000815 | 0.000054     |
| 5            | 166.362                 | 0.03777          | 5.0             |             | 0.106       | 0.237         | 0.237         |               |               | 3             | 0.079536  | 0.000022  | -0.000002    |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | -0.091158 | 0.000068  | -0.000004    |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | -0.19306  | 0.101433  | -0.005704    |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | -0.19514  | 0.103659  | -0.005759    |
| 6            | 172.544                 | 0.03642          | 5.0             |             | 0.105       | 0.237         | 0.237         |               |               | 3             | 0.003086  | -0.012321 | 0.000675     |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | 0.001034  | -0.008683 | 0.000540     |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | 0.006563  | 0.024955  | 0.001881     |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.006605  | 0.027278  | 0.001882     |
| 7            | 179.882                 | 0.03493          | 5.0             |             | 0.104       | 0.237         | 0.237         |               |               | 3             | -0.000937 | -0.002592 | -0.000174    |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | -0.000295 | 0.000335  | -0.000175    |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | 0.053014  | 0.000237  | -0.000030    |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.053425  | 0.000252  | -0.000029    |
| 8            | 701.934                 | 0.00895          | 5.0             |             | 0.083       | 0.241         | 0.241         |               |               | 3             | -0.032122 | -0.000115 | 0.000008     |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | 0.024935  | 0.000174  | -0.000011    |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | 0.000234  | -0.014871 | 0.000083     |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.000751  | 0.021877  | 0.000210     |
| 9            | 816.021                 | 0.00770          | 5.0             |             | 0.082       | 0.241         | 0.241         |               |               | 3             | -0.000242 | -0.068570 | -0.000070    |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | 0.000329  | 0.101397  | 0.000097     |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | -0.002265 | 0.010843  | -0.000668    |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.003478  | -0.016849 | 0.001116     |
|              |                         |                  |                 |             |             |               |               |               |               | 3             | -0.024611 | 0.108439  | -0.007340    |



**PULSAZIONI E MODI DI VIBRAZIONE**

| Modo<br>N.ro | Pulsazione<br>(rad/sec) | Periodo<br>(sec) | Smorz<br>Mod(%) | Sd/g<br>SLO | Sd/g<br>SLD | Sd/g<br>SLV X | Sd/g<br>SLV Y | Sd/g<br>SLC X | Sd/g<br>SLC Y | Piano<br>N.ro | X<br>(m)  | Y<br>(m)  | Rot<br>(rad) |
|--------------|-------------------------|------------------|-----------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|-----------|-----------|--------------|
| 10           | 1129.586                | 0.00556          | 5.0             |             | 0.080       | 0.242         | 0.242         |               |               | 4             | 0.041330  | -0.182255 | 0.012335     |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | -0.000320 | -0.037234 | -0.000003    |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.003397  | 0.064394  | 0.000892     |
|              |                         |                  |                 |             |             |               |               |               |               | 3             | -0.000107 | 0.022776  | -0.000030    |
| 11           | 1695.569                | 0.00371          | 5.0             |             | 0.079       | 0.242         | 0.242         |               |               | 4             | 0.000126  | -0.036218 | 0.000039     |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | -0.16640  | 0.069486  | -0.004414    |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.027711  | -0.120033 | 0.008119     |
|              |                         |                  |                 |             |             |               |               |               |               | 3             | 0.003283  | -0.015557 | 0.000990     |
| 12           | 2186.757                | 0.00287          | 5.0             |             | 0.078       | 0.242         | 0.242         |               |               | 4             | -0.006080 | 0.028282  | -0.001815    |
|              |                         |                  |                 |             |             |               |               |               |               | 1             | -0.038741 | 0.000001  | 0.000011     |
|              |                         |                  |                 |             |             |               |               |               |               | 2             | 0.081060  | 0.004822  | -0.000369    |
|              |                         |                  |                 |             |             |               |               |               |               | 3             | -0.000392 | 0.000432  | -0.000034    |
|              |                         |                  |                 |             |             |               |               |               |               | 4             | 0.000135  | -0.000762 | 0.000058     |

**FATTORI E FORZE DI PIANO MODALI S.L.D.**

SISMA DIREZIONE: 0°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo<br>N.ro | Fattore<br>Modale | Fmod/Fmax<br>(%) | Massa Mod<br>Eff.kN*10 | Mmod/Mtot<br>% | Piano<br>N.ro | FX<br>kN*10 | FY<br>kN*10 | Mt<br>kN*10*m | Mom.Ecc. 5%<br>kN*10*m |
|--------------|-------------------|------------------|------------------------|----------------|---------------|-------------|-------------|---------------|------------------------|
| 1            | 0.015             | 0.10             | 0.00                   | 0.00           | 1             | 0.00        | 0.00        | 0.00          | 6.28                   |
|              |                   |                  |                        |                | 2             | 0.00        | 0.00        | 0.00          | 3.92                   |
|              |                   |                  |                        |                | 3             | 0.00        | 0.02        | 0.00          | 7.32                   |
|              |                   |                  |                        |                | 4             | 0.00        | 0.01        | 0.00          | 5.94                   |
| 2            | 0.725             | 4.65             | 0.53                   | 0.12           | 1             | 0.01        | 0.00        | -0.87         |                        |
|              |                   |                  |                        |                | 2             | 0.00        | 0.01        | -0.57         |                        |
|              |                   |                  |                        |                | 3             | 0.05        | 0.01        | -8.41         |                        |
|              |                   |                  |                        |                | 4             | 0.04        | 0.01        | -5.00         |                        |
| 3            | 12.072            | 77.43            | 145.72                 | 33.14          | 1             | 1.45        | 0.00        | 0.83          |                        |
|              |                   |                  |                        |                | 2             | 0.74        | -0.01       | 0.88          |                        |
|              |                   |                  |                        |                | 3             | 12.34       | -0.03       | 8.05          |                        |
|              |                   |                  |                        |                | 4             | 11.21       | -0.02       | 4.70          |                        |
| 4            | 7.104             | 45.56            | 50.46                  | 11.47          | 1             | 2.99        | 0.00        | 0.34          |                        |

FATTORI E FORZE DI PIANO MODALI S.L.D.

SISMA DIREZIONE: 0°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo | Fattore | Fmod/Fmax | Massa Mod | Mmod/Mtot | Piano | FX    | FY    | Mt      | Mom.Ecc. 5% |
|------|---------|-----------|-----------|-----------|-------|-------|-------|---------|-------------|
| N.ro | Modale  | (%)       | Eff.kN*10 | %         | N.ro  | kN*10 | kN*10 | kN*10*m | kN*10*m     |
|      |         |           |           |           | 2     | 1.43  | 0.00  | 0.79    |             |
|      |         |           |           |           | 3     | 4.57  | 0.00  | -0.11   |             |
|      |         |           |           |           | 4     | -3.54 | 0.00  | 0.07    |             |
|      |         |           |           |           | 1     | 0.00  | 0.00  | -0.13   |             |
| 5    | 0.012   | 0.08      | 0.00      | 0.00      | 2     | 0.00  | 0.00  | -0.07   |             |
|      |         |           |           |           | 3     | 0.00  | 0.00  | 0.01    |             |
|      |         |           |           |           | 4     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 1     | 0.00  | 0.07  | 0.21    |             |
| 6    | 0.056   | 0.36      | 0.00      | 0.00      | 2     | 0.00  | 0.03  | 0.08    |             |
|      |         |           |           |           | 3     | 0.00  | 0.00  | -0.01   |             |
|      |         |           |           |           | 4     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 1     | 18.39 | -0.07 | -3.01   |             |
| 7    | 15.590  | 100.00    | 243.05    | 55.27     | 2     | 8.66  | -0.03 | 1.99    |             |
|      |         |           |           |           | 3     | -3.89 | 0.00  | 0.17    |             |
|      |         |           |           |           | 4     | 2.04  | 0.00  | -0.12   |             |
|      |         |           |           |           | 1     | 0.00  | 0.00  | 0.00    |             |
| 8    | 0.003   | 0.02      | 0.00      | 0.00      | 2     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 3     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 4     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 1     | 0.00  | 0.00  | -0.01   |             |
| 9    | 0.015   | 0.10      | 0.00      | 0.00      | 2     | 0.00  | 0.00  | 0.01    |             |
|      |         |           |           |           | 3     | 0.00  | 0.00  | -0.06   |             |
|      |         |           |           |           | 4     | 0.00  | 0.00  | 0.06    |             |
|      |         |           |           |           | 1     | 0.00  | 0.00  | 0.00    |             |
| 10   | 0.005   | 0.03      | 0.00      | 0.00      | 2     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 3     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 4     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 1     | 0.00  | 0.00  | 0.00    |             |
| 11   | 0.009   | 0.06      | 0.00      | 0.00      | 1     | 0.00  | 0.00  | 0.06    |             |
|      |         |           |           |           | 2     | 0.00  | 0.00  | -0.06   |             |
|      |         |           |           |           | 3     | 0.00  | 0.00  | 0.00    |             |

**FATTORI E FORZE DI PIANO MODALI S.L.D.**

SISMA DIREZIONE: 0°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo<br>N.ro | Fattore<br>Modale | Fmod/Fmax<br>(%) | Massa Mod<br>Eff.kN*10 | Mmod/Mtot<br>% | Piano<br>N.ro | FX<br>kN*10 | FY<br>kN*10 | Mt<br>kN*10*m | Mom.Ecc. 5%<br>kN*10*m |
|--------------|-------------------|------------------|------------------------|----------------|---------------|-------------|-------------|---------------|------------------------|
| 12           | 0.099             | 0.63             | 0.01                   | 0.00           | 4             | 0.00        | 0.00        | 0.01          |                        |
|              |                   |                  |                        |                | 1             | 0.06        | 0.00        | -0.01         |                        |
|              |                   |                  |                        |                | 2             | -0.06       | 0.00        | 0.01          |                        |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | 0.00          |                        |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.00          |                        |

**FATTORI E FORZE DI PIANO MODALI S.L.V.**

SISMA DIREZIONE: 0°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo<br>N.ro | Fattore<br>Modale | Fmod/Fmax<br>(%) | Massa Mod<br>Eff.kN*10 | Mmod/Mtot<br>% | Piano<br>N.ro | FX<br>kN*10 | FY<br>kN*10 | Mt<br>kN*10*m | Mom.Ecc. 5%<br>kN*10*m |
|--------------|-------------------|------------------|------------------------|----------------|---------------|-------------|-------------|---------------|------------------------|
| 1            | 0.015             | 0.10             | 0.00                   | 0.00           | 1             | 0.00        | 0.00        | 0.00          | 7.41                   |
|              |                   |                  |                        |                | 2             | 0.00        | 0.00        | 0.00          | 4.62                   |
|              |                   |                  |                        |                | 3             | 0.00        | 0.02        | 0.00          | 8.64                   |
|              |                   |                  |                        |                | 4             | 0.00        | 0.01        | 0.00          | 7.01                   |
| 2            | 0.725             | 4.65             | 0.53                   | 0.12           | 1             | 0.01        | 0.00        | -1.09         |                        |
|              |                   |                  |                        |                | 2             | 0.00        | 0.01        | -0.71         |                        |
|              |                   |                  |                        |                | 3             | 0.06        | 0.01        | -10.48        |                        |
|              |                   |                  |                        |                | 4             | 0.05        | 0.01        | -6.23         |                        |
| 3            | 12.072            | 77.43            | 145.72                 | 33.14          | 1             | 1.84        | 0.00        | 1.04          |                        |
|              |                   |                  |                        |                | 2             | 0.93        | -0.01       | 1.11          |                        |
|              |                   |                  |                        |                | 3             | 15.58       | -0.03       | 10.15         |                        |
|              |                   |                  |                        |                | 4             | 14.15       | -0.02       | 5.93          |                        |
| 4            | 7.104             | 45.56            | 50.46                  | 11.47          | 1             | 6.55        | 0.00        | 0.74          |                        |
|              |                   |                  |                        |                | 2             | 3.12        | -0.01       | 1.74          |                        |
|              |                   |                  |                        |                | 3             | 9.99        | 0.00        | -0.24         |                        |
|              |                   |                  |                        |                | 4             | -7.74       | 0.00        | 0.14          |                        |
| 5            | 0.012             | 0.08             | 0.00                   | 0.00           | 1             | 0.00        | 0.01        | -0.28         |                        |
|              |                   |                  |                        |                | 2             | 0.00        | 0.01        | -0.16         |                        |

FATTORI E FORZE DI PIANO MODALI S.L.V.

SISMA DIREZIONE: 0°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo<br>N.ro | Fattore<br>Modale | Fmod/Fmax<br>(%) | Massa Mod<br>Eff.kN*10 | Mmod/Mtot<br>% | Piano<br>N.ro | FX<br>kN*10 | FY<br>kN*10 | Mt<br>kN*10*m | Mom.Ecc. 5%<br>kN*10*m |
|--------------|-------------------|------------------|------------------------|----------------|---------------|-------------|-------------|---------------|------------------------|
| 6            | 0.056             | 0.36             | 0.00                   | 0.00           | 3             | 0.00        | 0.00        | 0.01          |                        |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.01          |                        |
|              |                   |                  |                        |                | 1             | 0.00        | 0.15        | 0.47          |                        |
|              |                   |                  |                        |                | 2             | 0.00        | 0.07        | 0.17          |                        |
|              |                   |                  |                        |                | 3             | 0.00        | -0.01       | -0.02         |                        |
| 7            | 15.590            | 100.00           | 243.05                 | 55.27          | 4             | 0.00        | 0.00        | -0.01         |                        |
|              |                   |                  |                        |                | 1             | 42.03       | -0.17       | -6.89         |                        |
|              |                   |                  |                        |                | 2             | 19.80       | -0.06       | 4.55          |                        |
|              |                   |                  |                        |                | 3             | -8.90       | 0.00        | 0.40          |                        |
|              |                   |                  |                        |                | 4             | 4.67        | 0.00        | -0.27         |                        |
| 8            | 0.003             | 0.02             | 0.00                   | 0.00           | 1             | 0.00        | 0.00        | 0.00          |                        |
|              |                   |                  |                        |                | 2             | 0.00        | 0.00        | 0.00          |                        |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | 0.00          |                        |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.00          |                        |
|              |                   |                  |                        |                | 1             | 0.00        | 0.00        | -0.04         |                        |
| 9            | 0.015             | 0.10             | 0.00                   | 0.00           | 2             | 0.00        | 0.00        | 0.04          |                        |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | -0.18         |                        |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.18          |                        |
|              |                   |                  |                        |                | 1             | 0.00        | 0.01        | 0.00          |                        |
|              |                   |                  |                        |                | 2             | 0.00        | -0.01       | 0.00          |                        |
| 10           | 0.005             | 0.03             | 0.00                   | 0.00           | 3             | 0.00        | 0.00        | 0.00          |                        |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.00          |                        |
|              |                   |                  |                        |                | 1             | 0.00        | 0.00        | 0.17          |                        |
|              |                   |                  |                        |                | 2             | 0.00        | 0.00        | -0.17         |                        |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | -0.01         |                        |
| 11           | 0.009             | 0.06             | 0.00                   | 0.00           | 4             | 0.00        | 0.00        | 0.02          |                        |
|              |                   |                  |                        |                | 1             | 0.00        | 0.00        | 0.17          |                        |
|              |                   |                  |                        |                | 2             | 0.00        | 0.00        | -0.17         |                        |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | -0.01         |                        |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.02          |                        |
| 12           | 0.099             | 0.63             | 0.01                   | 0.00           | 1             | 0.20        | 0.00        | -0.03         |                        |
|              |                   |                  |                        |                | 2             | -0.20       | 0.00        | 0.03          |                        |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | 0.01          |                        |

FATTORI E FORZE DI PIANO MODALI S.L.V.

SISMA DIREZIONE: 0°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo | Fattore | Fmod/Fmax | Massa Mod | Mmod/Mtot | Piano | FX    | FY    | Mt      | Mom.Ecc. 5% |
|------|---------|-----------|-----------|-----------|-------|-------|-------|---------|-------------|
| N.ro | Modale  | (%)       | Eff.kN*10 | %         | N.ro  | kN*10 | kN*10 | kN*10*m | kN*10*m     |
|      |         |           |           |           | 4     | 0.00  | 0.00  | -0.01   |             |

FATTORI E FORZE DI PIANO MODALI S.L.D.

SISMA DIREZIONE: 90°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo | Fattore | Fmod/Fmax | Massa Mod | Mmod/Mtot | Piano | FX    | FY    | Mt      | Mom.Ecc. 5% |
|------|---------|-----------|-----------|-----------|-------|-------|-------|---------|-------------|
| N.ro | Modale  | (%)       | Eff.kN*10 | %         | N.ro  | kN*10 | kN*10 | kN*10*m | kN*10*m     |
| 1    | 12.040  | 73.75     | 144.97    | 32.96     | 1     | 0.00  | 1.10  | -0.66   | 28.41       |
|      |         |           |           |           | 2     | 0.00  | 0.87  | -1.14   | 17.71       |
|      |         |           |           |           | 3     | 0.02  | 15.49 | 2.82    | 33.11       |
|      |         |           |           |           | 4     | 0.01  | 10.42 | 1.74    | 26.86       |
| 2    | 0.185   | 1.14      | 0.03      | 0.01      | 1     | 0.00  | 0.00  | -0.22   |             |
|      |         |           |           |           | 2     | 0.00  | 0.00  | -0.15   |             |
|      |         |           |           |           | 3     | 0.01  | 0.00  | -2.15   |             |
|      |         |           |           |           | 4     | 0.01  | 0.00  | -1.28   |             |
| 3    | 0.023   | 0.14      | 0.00      | 0.00      | 1     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 2     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 3     | -0.02 | 0.00  | -0.02   |             |
|      |         |           |           |           | 4     | -0.02 | 0.00  | -0.01   |             |
| 4    | 0.009   | 0.05      | 0.00      | 0.00      | 1     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 2     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 3     | -0.01 | 0.00  | 0.00    |             |
|      |         |           |           |           | 4     | 0.00  | 0.00  | 0.00    |             |
| 5    | 5.283   | 32.37     | 27.92     | 6.35      | 1     | 0.08  | 1.82  | -56.61  |             |
|      |         |           |           |           | 2     | -0.09 | 1.26  | -31.90  |             |
|      |         |           |           |           | 3     | 0.03  | -0.10 | 2.55    |             |
|      |         |           |           |           | 4     | -0.02 | -0.02 | 1.22    |             |
| 6    | 16.325  | 100.00    | 266.50    | 60.60     | 1     | -0.01 | 19.58 | 60.16   |             |
|      |         |           |           |           | 2     | 0.13  | 9.23  | 22.02   |             |

FATTORI E FORZE DI PIANO MODALI S.L.D.

SISMA DIREZIONE: 90°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo<br>N.ro | Fattore<br>Modale | Fmod/Fmax<br>(%) | Massa Mod<br>Eff.kN*10 | Mmod/Mtot<br>% | Piano<br>N.ro | FX<br>kN*10 | FY<br>kN*10 | Mt<br>kN*10*m | Mom.Ecc. 5%<br>kN*10*m |   |      |      |       |  |
|--------------|-------------------|------------------|------------------------|----------------|---------------|-------------|-------------|---------------|------------------------|---|------|------|-------|--|
| 7            | 0.061             | 0.38             | 0.00                   | 0.00           | 3             | -0.05       | -0.66       | -2.05         |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 4             | 0.03        | -0.19       | -1.23         |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 1             | -0.07       | 0.00        | 0.01          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 2             | -0.03       | 0.00        | -0.01         |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 3             | 0.02        | 0.00        | 0.00          |                        |   |      |      |       |  |
| 8            | 0.434             | 2.66             | 0.19                   | 0.04           | 4             | -0.01       | 0.00        | 0.00          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 1             | 0.00        | 0.10        | -0.04         |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 2             | 0.00        | -0.09       | 0.01          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 3             | 0.00        | 0.19        | 0.03          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 4             | 0.00        | -0.19       | -0.03         |                        |   |      |      |       |  |
| 9            | 0.051             | 0.31             | 0.00                   | 0.00           | 1             | 0.00        | 0.00        | -0.05         |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 2             | 0.00        | 0.00        | 0.04          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | -0.21         |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.21          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 10            | 0.409       | 2.50        | 0.17          | 0.04                   | 1 | 0.00 | 0.26 | 0.04  |  |
| 10           | 0.409             | 2.50             | 0.17                   | 0.04           | 2             | 0.00        | -0.25       | -0.04         |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 3             | 0.00        | -0.05       | 0.00          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 4             | 0.00        | 0.06        | 0.00          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 11            | 0.044       | 0.27        | 0.00          | 0.00                   | 1 | 0.00 | 0.00 | -0.27 |  |
|              |                   |                  |                        |                | 11            | 0.044       | 0.27        | 0.00          | 0.00                   | 2 | 0.00 | 0.00 | 0.27  |  |
| 3            | 0.00              | 0.00             | 0.02                   |                |               |             |             |               |                        |   |      |      |       |  |
| 4            | 0.00              | 0.00             | -0.03                  |                |               |             |             |               |                        |   |      |      |       |  |
| 12           | 0.002             | 0.01             | 0.00                   | 0.00           |               |             |             |               |                        | 1 | 0.00 | 0.00 | 0.00  |  |
| 12           | 0.002             | 0.01             | 0.00                   | 0.00           |               |             |             |               |                        | 2 | 0.00 | 0.00 | 0.00  |  |
|              |                   |                  |                        |                | 3             | 0.00        | 0.00        | 0.00          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.00          |                        |   |      |      |       |  |
|              |                   |                  |                        |                | 4             | 0.00        | 0.00        | 0.00          |                        |   |      |      |       |  |

FATTORI E FORZE DI PIANO MODALI S.L.V.

SISMA DIREZIONE: 90°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo | Fattore | Fmod/Fmax | Massa Mod | Mmod/Mtot | Piano | FX    | FY    | Mt      | Mom.Ecc. 5% |
|------|---------|-----------|-----------|-----------|-------|-------|-------|---------|-------------|
| N.ro | Modale  | (%)       | Eff.kN*10 | %         | N.ro  | kN*10 | kN*10 | kN*10*m | kN*10*m     |
| 1    | 12.040  | 73.75     | 144.97    | 32.96     | 1     | 0.01  | 1.25  | -0.74   | 31.96       |
|      |         |           |           |           | 2     | 0.00  | 0.98  | -1.29   | 19.92       |
|      |         |           |           |           | 3     | 0.02  | 17.49 | 3.19    | 37.26       |
|      |         |           |           |           | 4     | 0.01  | 11.77 | 1.96    | 30.22       |
| 2    | 0.185   | 1.14      | 0.03      | 0.01      | 1     | 0.00  | 0.00  | -0.28   |             |
|      |         |           |           |           | 2     | 0.00  | 0.00  | -0.18   |             |
|      |         |           |           |           | 3     | 0.01  | 0.00  | -2.68   |             |
|      |         |           |           |           | 4     | 0.01  | 0.00  | -1.59   |             |
| 3    | 0.023   | 0.14      | 0.00      | 0.00      | 1     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 2     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 3     | -0.03 | 0.00  | -0.02   |             |
|      |         |           |           |           | 4     | -0.03 | 0.00  | -0.01   |             |
| 4    | 0.009   | 0.05      | 0.00      | 0.00      | 1     | -0.01 | 0.00  | 0.00    |             |
|      |         |           |           |           | 2     | 0.00  | 0.00  | 0.00    |             |
|      |         |           |           |           | 3     | -0.01 | 0.00  | 0.00    |             |
|      |         |           |           |           | 4     | 0.01  | 0.00  | 0.00    |             |
| 5    | 5.283   | 32.37     | 27.92     | 6.35      | 1     | 0.18  | 4.07  | -126.40 |             |
|      |         |           |           |           | 2     | -0.20 | 2.81  | -71.21  |             |
|      |         |           |           |           | 3     | 0.08  | -0.22 | 5.69    |             |
|      |         |           |           |           | 4     | -0.05 | -0.05 | 2.73    |             |
| 6    | 16.325  | 100.00    | 266.50    | 60.60     | 1     | -0.03 | 44.20 | 135.83  |             |
|      |         |           |           |           | 2     | 0.29  | 20.83 | 49.72   |             |
|      |         |           |           |           | 3     | -0.10 | -1.49 | -4.64   |             |
|      |         |           |           |           | 4     | 0.06  | -0.44 | -2.77   |             |
| 7    | 0.061   | 0.38      | 0.00      | 0.00      | 1     | -0.17 | 0.00  | 0.03    |             |
|      |         |           |           |           | 2     | -0.08 | 0.00  | -0.02   |             |
|      |         |           |           |           | 3     | 0.04  | 0.00  | 0.00    |             |
|      |         |           |           |           | 4     | -0.02 | 0.00  | 0.00    |             |
| 8    | 0.434   | 2.66      | 0.19      | 0.04      | 1     | 0.00  | 0.30  | -0.11   |             |
|      |         |           |           |           | 2     | 0.00  | -0.26 | 0.04    |             |

FATTORI E FORZE DI PIANO MODALI S.L.V.

SISMA DIREZIONE: 90°

Massa eccitata kN\*10: 439.77    Massa totale kN\*10: 439.77    Rapporto:1

| Modo N.ro | Fattore Modale | Fmod/Fmax (%) | Massa Mod Eff.kN*10 | Mmod/Mtot % | Piano N.ro | FX kN*10 | FY kN*10 | Mt kN*10*m | Mom.Ecc. 5% kN*10*m |
|-----------|----------------|---------------|---------------------|-------------|------------|----------|----------|------------|---------------------|
| 9         | 0.051          | 0.31          | 0.00                | 0.00        | 3          | 0.00     | 0.55     | 0.09       |                     |
|           |                |               |                     |             | 4          | 0.00     | -0.54    | -0.08      |                     |
|           |                |               |                     |             | 1          | 0.00     | 0.00     | -0.15      |                     |
|           |                |               |                     |             | 2          | 0.00     | 0.00     | 0.13       |                     |
|           |                |               |                     |             | 3          | 0.00     | 0.00     | -0.61      |                     |
| 10        | 0.409          | 2.50          | 0.17                | 0.04        | 4          | 0.00     | 0.00     | 0.61       |                     |
|           |                |               |                     |             | 1          | 0.01     | 0.79     | 0.12       |                     |
|           |                |               |                     |             | 2          | -0.01    | -0.76    | -0.12      |                     |
|           |                |               |                     |             | 3          | 0.00     | -0.17    | 0.01       |                     |
| 11        | 0.044          | 0.27          | 0.00                | 0.00        | 4          | 0.00     | 0.18     | 0.00       |                     |
|           |                |               |                     |             | 1          | 0.00     | 0.01     | -0.83      |                     |
|           |                |               |                     |             | 2          | 0.00     | -0.01    | 0.82       |                     |
|           |                |               |                     |             | 3          | 0.00     | 0.00     | 0.07       |                     |
| 12        | 0.002          | 0.01          | 0.00                | 0.00        | 4          | 0.00     | 0.00     | -0.08      |                     |
|           |                |               |                     |             | 1          | 0.00     | 0.00     | 0.00       |                     |
|           |                |               |                     |             | 2          | 0.00     | 0.00     | 0.00       |                     |
|           |                |               |                     |             | 3          | 0.00     | 0.00     | 0.00       |                     |

CARATT. PESO PROPRIO: ASTE

| Tra tto | Filo In. | Alt. (m) | Tx (kN*10) | Ty (kN*10) | N (kN*10) | Mx (kN*m*10) | My (kN*m*10) | Mt (kN*m*10) | Filo N.ro | Alt. (m) | Tx (kN*10) | Ty (kN*10) | N (kN*10) | Mx (kN*m*10) | My (kN*m*10) | Mt (kN*m*10) |
|---------|----------|----------|------------|------------|-----------|--------------|--------------|--------------|-----------|----------|------------|------------|-----------|--------------|--------------|--------------|
|         | 24       | 2.00     | 0.00       | -0.03      | 1.53      | -0.01        | 0.00         | 0.00         | 24        | 0.00     | 0.00       | 0.03       | -1.92     | 0.06         | 0.00         | 0.00         |
|         | 19       | 2.00     | 0.00       | 0.64       | 0.00      | -0.38        | 0.00         | 0.00         | 24        | 2.00     | 0.00       | 0.72       | 0.00      | 0.54         | 0.00         | 0.00         |
|         | 24       | 2.00     | 0.00       | 0.72       | 0.00      | -0.54        | 0.00         | 0.00         | 21        | 2.00     | 0.00       | 0.64       | 0.00      | 0.38         | 0.00         | 0.00         |
|         | 1        | 5.00     | 0.12       | -0.40      | 3.47      | 0.73         | 0.15         | 0.00         | 1         | 2.00     | -0.12      | 0.40       | -4.51     | 0.31         | 0.17         | 0.00         |
|         | 2        | 5.00     | -0.03      | -0.70      | 5.23      | 1.19         | -0.04        | 0.00         | 2         | 2.00     | 0.03       | 0.70       | -6.27     | 0.64         | -0.03        | 0.00         |
|         | 3        | 5.00     | 0.11       | -0.80      | 5.87      | 1.34         | 0.19         | 0.00         | 3         | 2.00     | -0.11      | 0.80       | -6.91     | 0.74         | 0.10         | 0.00         |
|         | 4        | 5.00     | -0.01      | -0.81      | 5.96      | 1.41         | -0.02        | 0.00         | 4         | 2.00     | 0.01       | 0.81       | -7.00     | 0.68         | -0.01        | 0.00         |
|         | 5        | 5.00     | -0.11      | -0.84      | 6.18      | 1.40         | -0.18        | 0.00         | 5         | 2.00     | 0.11       | 0.84       | -7.22     | 0.78         | -0.11        | 0.00         |



CARATT. PESO PROPRIO: ASTE

| Tra | Filo | Alt.  | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt.  | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|-------|---------|---------|---------|---------|---------|---------|------|-------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)   | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)   | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 6   | 5.00 | -0.01 | -0.80   | 5.97    | 1.36    | -0.01   | 0.00    | 6       | 2.00 | 0.01  | 0.80    | -7.01   | 0.73    | -0.02   | 0.00    |         |
| 7   | 5.00 | -0.02 | -0.79   | 5.88    | 1.34    | -0.04   | 0.00    | 7       | 2.00 | 0.02  | 0.79    | -6.92   | 0.71    | -0.01   | 0.00    |         |
| 8   | 5.00 | 0.02  | -0.76   | 5.65    | 1.28    | 0.04    | 0.00    | 8       | 2.00 | -0.02 | 0.76    | -6.69   | 0.69    | 0.01    | 0.00    |         |
| 9   | 5.00 | -0.15 | -0.42   | 3.57    | 0.75    | -0.21   | 0.00    | 9       | 2.00 | 0.15  | 0.42    | -4.61   | 0.33    | -0.19   | 0.00    |         |
| 10  | 5.00 | 0.16  | 0.41    | 3.76    | -0.67   | 0.23    | 0.00    | 10      | 2.00 | -0.16 | -0.41   | -4.80   | -0.40   | 0.19    | 0.00    |         |
| 11  | 5.00 | 0.03  | 0.68    | 4.87    | -1.10   | 0.04    | 0.00    | 11      | 2.00 | -0.03 | -0.68   | -5.91   | -0.66   | 0.05    | 0.00    |         |
| 12  | 5.00 | 0.07  | 0.78    | 5.64    | -1.27   | 0.13    | 0.00    | 12      | 2.00 | -0.07 | -0.78   | -6.68   | -0.76   | 0.05    | 0.00    |         |
| 13  | 5.00 | 0.01  | 0.93    | 6.83    | -1.49   | 0.01    | 0.00    | 13      | 2.00 | -0.01 | -0.93   | -7.87   | -0.92   | 0.01    | 0.00    |         |
| 14  | 5.00 | -0.01 | 0.82    | 5.93    | -1.33   | -0.05   | 0.00    | 14      | 2.00 | 0.01  | -0.82   | -6.97   | -0.80   | 0.02    | 0.00    |         |
| 15  | 5.00 | 0.01  | 0.77    | 5.54    | -1.25   | 0.02    | 0.00    | 15      | 2.00 | -0.01 | -0.77   | -6.58   | -0.74   | 0.01    | 0.00    |         |
| 16  | 5.00 | -0.01 | 0.76    | 5.50    | -1.24   | -0.03   | 0.00    | 16      | 2.00 | 0.01  | -0.76   | -6.54   | -0.72   | 0.00    | 0.00    |         |
| 17  | 5.00 | -0.01 | 0.74    | 5.45    | -1.22   | 0.00    | 0.00    | 17      | 2.00 | 0.01  | -0.74   | -6.49   | -0.71   | -0.02   | 0.00    |         |
| 18  | 5.00 | -0.18 | 0.44    | 4.11    | -0.73   | -0.25   | 0.00    | 18      | 2.00 | 0.18  | -0.44   | -5.15   | -0.41   | -0.21   | 0.00    |         |
| 1   | 5.00 | -0.10 | 1.18    | 5.32    | -0.32   | -0.12   | -0.01   | 25      | 6.00 | 0.10  | 1.31    | -4.48   | 0.52    | -0.20   | 0.01    |         |
| 9   | 5.00 | 0.13  | 1.24    | 5.20    | -0.34   | 0.16    | 0.01    | 33      | 6.00 | -0.13 | 1.37    | -4.31   | 0.54    | 0.26    | -0.01   |         |
| 10  | 5.00 | 0.12  | 1.15    | 6.10    | -0.22   | 0.14    | 0.01    | 25      | 6.00 | -0.12 | 1.34    | -5.25   | 0.52    | 0.22    | -0.01   |         |
| 18  | 5.00 | -0.14 | 1.21    | 6.89    | -0.23   | -0.17   | -0.01   | 33      | 6.00 | 0.14  | 1.41    | -6.00   | 0.54    | -0.27   | 0.01    |         |
| 2   | 5.00 | 0.01  | 1.49    | 7.80    | -0.70   | 0.01    | 0.00    | 26      | 6.00 | -0.01 | 1.50    | -6.79   | 0.72    | 0.01    | 0.00    |         |
| 6   | 5.00 | -0.01 | 1.69    | 8.99    | -0.79   | -0.01   | 0.00    | 30      | 6.00 | 0.01  | 1.71    | -7.84   | 0.82    | -0.02   | 0.00    |         |
| 7   | 5.00 | 0.03  | 1.67    | 8.83    | -0.78   | 0.04    | 0.00    | 31      | 6.00 | -0.03 | 1.69    | -7.69   | 0.81    | 0.06    | 0.00    |         |
| 8   | 5.00 | -0.02 | 1.61    | 8.30    | -0.76   | -0.03   | 0.00    | 32      | 6.00 | 0.02  | 1.63    | -7.20   | 0.78    | -0.02   | 0.00    |         |
| 3   | 5.00 | -0.13 | 1.68    | 8.59    | -0.79   | -0.18   | 0.00    | 27      | 6.00 | 0.13  | 1.70    | -7.44   | 0.81    | -0.23   | 0.00    |         |
| 4   | 5.00 | 0.00  | 1.86    | 8.19    | -0.86   | 0.01    | 0.00    | 28      | 6.00 | 0.00  | 1.90    | -6.91   | 0.91    | 0.01    | 0.00    |         |
| 5   | 5.00 | 0.10  | 1.76    | 9.03    | -0.82   | 0.14    | 0.00    | 29      | 6.00 | -0.10 | 1.78    | -7.83   | 0.85    | 0.17    | 0.00    |         |
| 11  | 5.00 | 0.01  | 1.47    | 6.91    | -0.66   | 0.01    | 0.00    | 26      | 6.00 | -0.01 | 1.51    | -5.89   | 0.72    | 0.01    | 0.00    |         |
| 15  | 5.00 | 0.02  | 1.67    | 7.73    | -0.75   | 0.02    | 0.00    | 30      | 6.00 | -0.02 | 1.72    | -6.58   | 0.82    | 0.03    | 0.00    |         |
| 16  | 5.00 | -0.03 | 1.65    | 7.72    | -0.74   | -0.05   | 0.00    | 31      | 6.00 | 0.03  | 1.70    | -6.58   | 0.81    | -0.06   | 0.00    |         |
| 17  | 5.00 | 0.01  | 1.60    | 7.83    | -0.71   | 0.01    | 0.00    | 32      | 6.00 | -0.01 | 1.64    | -6.73   | 0.78    | 0.02    | 0.00    |         |
| 12  | 5.00 | 0.12  | 1.66    | 8.08    | -0.75   | 0.15    | 0.00    | 27      | 6.00 | -0.12 | 1.71    | -6.93   | 0.82    | 0.22    | 0.00    |         |
| 13  | 5.00 | 0.00  | 1.86    | 10.48   | -0.84   | 0.00    | 0.00    | 28      | 6.00 | 0.00  | 1.90    | -9.21   | 0.91    | 0.00    | 0.00    |         |
| 14  | 5.00 | -0.08 | 1.75    | 8.48    | -0.78   | -0.10   | 0.00    | 29      | 6.00 | 0.08  | 1.79    | -7.28   | 0.86    | -0.14   | 0.00    |         |
| 1   | 5.00 | 0.00  | 0.48    | 0.00    | -0.13   | 0.00    | 0.01    | 2       | 5.00 | 0.00  | 0.62    | 0.00    | 0.33    | 0.00    | -0.01   |         |
| 2   | 5.00 | 0.00  | 0.54    | 0.00    | -0.29   | 0.00    | 0.00    | 3       | 5.00 | 0.00  | 0.56    | 0.00    | 0.31    | 0.00    | 0.00    |         |
| 3   | 5.00 | 0.00  | 0.81    | 0.00    | -0.55   | 0.00    | 0.00    | 4       | 5.00 | 0.00  | 0.71    | 0.00    | 0.35    | 0.00    | 0.00    |         |

CARATT. PESO PROPRIO: ASTE

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 4   | 5.00 | 0.00 | 0.70    | 0.00    | 0.00    | -0.34   | 0.00    | 0.00    | 5    | 5.00 | 0.00    | 0.82    | 0.00    | 0.58    | 0.00    | 0.00    |
| 5   | 5.00 | 0.00 | 0.63    | 0.00    | 0.00    | -0.35   | 0.00    | 0.00    | 6    | 5.00 | 0.00    | 0.65    | 0.00    | 0.39    | 0.00    | 0.00    |
| 6   | 5.00 | 0.00 | 0.68    | 0.00    | 0.00    | -0.37   | 0.00    | 0.00    | 7    | 5.00 | 0.00    | 0.68    | 0.00    | 0.38    | 0.00    | 0.00    |
| 7   | 5.00 | 0.00 | 0.62    | 0.00    | 0.00    | -0.34   | 0.00    | 0.00    | 8    | 5.00 | 0.00    | 0.62    | 0.00    | 0.34    | 0.00    | 0.00    |
| 8   | 5.00 | 0.00 | 0.68    | 0.00    | 0.00    | -0.38   | 0.00    | -0.01   | 9    | 5.00 | 0.00    | 0.56    | 0.00    | 0.19    | 0.00    | 0.01    |
| 10  | 5.00 | 0.00 | 0.55    | 0.00    | 0.00    | -0.22   | 0.00    | -0.01   | 11   | 5.00 | 0.00    | 0.55    | 0.00    | 0.22    | 0.00    | 0.01    |
| 11  | 5.00 | 0.00 | 0.55    | 0.00    | 0.00    | -0.27   | 0.00    | 0.00    | 12   | 5.00 | 0.00    | 0.55    | 0.00    | 0.28    | 0.00    | 0.00    |
| 12  | 5.00 | 0.00 | 0.75    | 0.00    | 0.00    | -0.45   | 0.00    | 0.00    | 13   | 5.00 | 0.00    | 0.77    | 0.00    | 0.47    | 0.00    | 0.00    |
| 13  | 5.00 | 0.00 | 0.77    | 0.00    | 0.00    | -0.49   | 0.00    | 0.00    | 14   | 5.00 | 0.00    | 0.75    | 0.00    | 0.44    | 0.00    | 0.00    |
| 14  | 5.00 | 0.00 | 0.65    | 0.00    | 0.00    | -0.37   | 0.00    | 0.00    | 15   | 5.00 | 0.00    | 0.63    | 0.00    | 0.35    | 0.00    | 0.00    |
| 15  | 5.00 | 0.00 | 0.68    | 0.00    | 0.00    | -0.38   | 0.00    | 0.00    | 16   | 5.00 | 0.00    | 0.68    | 0.00    | 0.37    | 0.00    | 0.00    |
| 16  | 5.00 | 0.00 | 0.62    | 0.00    | 0.00    | -0.33   | 0.00    | 0.00    | 17   | 5.00 | 0.00    | 0.62    | 0.00    | 0.33    | 0.00    | 0.00    |
| 17  | 5.00 | 0.00 | 0.64    | 0.00    | 0.00    | -0.32   | 0.00    | 0.01    | 18   | 5.00 | 0.00    | 0.60    | 0.00    | 0.25    | 0.00    | -0.01   |
| 25  | 6.00 | 0.00 | 0.62    | 0.00    | 0.00    | -0.28   | 0.00    | 0.00    | 26   | 6.00 | 0.00    | 0.64    | 0.00    | 0.32    | 0.00    | 0.00    |
| 26  | 6.00 | 0.00 | 0.57    | 0.00    | 0.00    | -0.32   | 0.00    | 0.00    | 27   | 6.00 | 0.00    | 0.61    | 0.00    | 0.37    | 0.00    | 0.00    |
| 27  | 6.00 | 0.00 | 0.78    | 0.00    | 0.00    | -0.52   | 0.00    | 0.00    | 28   | 6.00 | 0.00    | 0.79    | 0.00    | 0.53    | 0.00    | 0.00    |
| 28  | 6.00 | 0.00 | 0.79    | 0.00    | 0.00    | -0.53   | 0.00    | 0.00    | 29   | 6.00 | 0.00    | 0.79    | 0.00    | 0.54    | 0.00    | 0.00    |
| 29  | 6.00 | 0.00 | 0.68    | 0.00    | 0.00    | -0.44   | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.67    | 0.00    | 0.42    | 0.00    | 0.00    |
| 30  | 6.00 | 0.00 | 0.71    | 0.00    | 0.00    | -0.44   | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.71    | 0.00    | 0.44    | 0.00    | 0.00    |
| 31  | 6.00 | 0.00 | 0.66    | 0.00    | 0.00    | -0.40   | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.65    | 0.00    | 0.39    | 0.00    | 0.00    |
| 32  | 6.00 | 0.00 | 0.71    | 0.00    | 0.00    | -0.40   | 0.00    | 0.00    | 33   | 6.00 | 0.00    | 0.67    | 0.00    | 0.33    | 0.00    | 0.00    |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 1     | 216  | -2.47             | -2.11             | -1.74             | 61.75             | -16.12            | 5.34              | 217  | -2.31             | -1.31             | -5.26             | -32.93            | -11.23            | -23.62            |
|       | 1    | 10.33             | 0.45              | 0.59              | 192.30            | 72.06             | 10.54             | 213  | 10.49             | 1.25              | -2.92             | -74.20            | -16.99            | -18.41            |
| 2     | 220  | 5.08              | -3.02             | 0.22              | 41.47             | -117.05           | -32.23            | 227  | 5.54              | -0.75             | 0.10              | -9.52             | -14.66            | -64.51            |
|       | 2    | 14.81             | -1.08             | -1.03             | 261.90            | 223.17            | 2.61              | 224  | 15.27             | 1.20              | -1.15             | -85.56            | -38.73            | -29.67            |
| 3     | 234  | -9.47             | -1.50             | 0.25              | 7.02              | -10.65            | -2.13             | 235  | -9.51             | -1.69             | -0.05             | -4.33             | -3.36             | -12.17            |
|       | 4    | -3.57             | -0.32             | 0.93              | 25.66             | -13.31            | -3.02             | 231  | -3.61             | -0.51             | 0.63              | -13.35            | -27.23            | -13.06            |
| 4     | 242  | -3.89             | -4.54             | -4.15             | 17.12             | -6.86             | -16.10            | 243  | -3.09             | -0.55             | -4.50             | -12.49            | -2.87             | -24.42            |
|       | 3    | -2.53             | -4.27             | -6.62             | 45.28             | 15.41             | -13.05            | 221  | -1.73             | -0.28             | -6.97             | -27.45            | -20.90            | -21.36            |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 5     | 253  | 5.29              | -11.84            | 3.01              | -5.39             | -28.17            | -3.14             | 254  | 7.44              | -1.08             | -2.05             | 2.22              | 8.32              | -3.54             |
|       | 1    | -6.70             | -14.24            | -14.82            | 6.29              | 32.20             | -1.64             | 249  | -4.55             | -3.47             | -19.88            | -0.72             | -10.88            | -2.04             |
| 6     | 253  | 0.31              | -0.20             | 5.58              | -20.55            | -35.47            | 4.10              | 264  | -1.31             | -8.29             | 11.45             | 12.37             | 22.01             | 1.67              |
|       | 1    | -3.40             | -0.94             | 6.88              | 22.16             | 60.22             | -18.00            | 216  | -5.02             | -9.03             | 12.75             | 5.11              | 83.71             | -20.43            |
| 7     | 267  | 1.54              | 3.71              | 3.92              | 4.89              | 8.21              | -2.31             | 268  | -0.01             | -4.07             | 2.18              | -1.60             | -7.74             | 0.32              |
|       | 8    | -3.04             | 2.79              | 2.02              | -4.04             | -9.96             | 6.38              | 241  | -4.60             | -4.98             | 0.28              | -4.16             | -24.52            | 9.01              |
| 8     | 271  | -6.89             | -1.60             | -0.89             | -0.26             | -10.65            | -0.88             | 272  | -7.20             | -3.12             | 0.51              | -2.21             | -11.05            | -1.64             |
|       | 7    | -14.31            | -3.08             | 0.32              | -4.94             | -24.67            | 1.44              | 248  | -14.61            | -4.60             | 1.71              | -3.24             | -32.11            | 0.68              |
| 9     | 265  | 0.29              | -4.95             | 7.89              | 13.59             | 19.38             | -3.78             | 276  | 0.77              | -2.54             | 8.20              | -2.74             | 6.58              | -1.92             |
|       | 3    | -4.12             | -5.83             | -0.94             | 6.43              | 39.75             | 9.10              | 242  | -3.64             | -3.42             | -0.63             | 6.54              | 22.52             | 10.95             |
| 10    | 259  | 0.61              | 0.75              | 5.55              | 19.77             | 35.38             | -3.79             | 278  | -1.21             | -8.34             | 10.91             | -12.07            | -21.85            | -1.89             |
|       | 5    | -3.65             | -0.10             | 6.88              | -24.71            | -60.97            | 17.82             | 230  | -5.47             | -9.20             | 12.24             | -1.92             | -81.62            | 19.71             |
| 11    | 279  | 0.55              | -4.97             | 7.55              | -12.38            | -18.28            | 3.78              | 281  | 1.05              | -2.47             | 8.30              | 2.02              | -6.64             | 2.11              |
|       | 6    | -4.00             | -5.88             | -1.20             | -8.29             | -40.11            | -8.89             | 238  | -3.50             | -3.38             | -0.45             | -4.86             | -21.82            | -10.56            |
| 12    | 286  | 0.00              | 0.00              | 0.00              | 102.27            | 3.10              | 11.64             | 287  | 0.00              | 0.00              | 0.00              | -27.06            | -29.70            | 25.60             |
|       | 18   | 0.00              | 0.00              | 0.00              | 32.44             | 30.51             | 5.54              | 283  | 0.00              | 0.00              | 0.00              | -5.37             | 37.20             | 19.50             |
| 13    | 25   | 0.00              | 0.00              | 0.00              | 1.25              | -5.08             | -2.19             | 26   | 0.00              | 0.00              | 0.00              | -7.02             | -8.28             | -5.44             |
|       | 19   | 0.00              | 0.00              | 0.00              | 7.78              | 40.76             | -3.00             | 22   | 0.00              | 0.00              | 0.00              | -0.48             | 37.57             | -6.25             |
| 14    | 26   | 0.00              | 0.00              | 0.00              | -5.94             | -6.69             | -5.98             | 27   | 0.00              | 0.00              | 0.00              | -12.55            | -9.66             | -8.72             |
|       | 22   | 0.00              | 0.00              | 0.00              | -1.74             | 32.44             | -6.00             | 23   | 0.00              | 0.00              | 0.00              | -8.35             | 29.47             | -8.74             |
| 15    | 27   | 0.00              | 0.00              | 0.00              | -7.09             | -6.01             | -9.86             | 28   | 0.00              | 0.00              | 0.00              | -9.71             | -8.09             | -12.06            |
|       | 23   | 0.00              | 0.00              | 0.00              | -4.40             | 24.24             | -9.26             | 24   | 0.00              | 0.00              | 0.00              | -7.03             | 22.16             | -11.47            |
| 16    | 28   | 0.00              | 0.00              | 0.00              | 19.85             | 1.41              | -12.48            | 13   | 0.00              | 0.00              | 0.00              | 26.83             | 0.26              | -9.94             |
|       | 24   | 0.00              | 0.00              | 0.00              | 3.30              | 16.25             | -9.30             | 11   | 0.00              | 0.00              | 0.00              | 10.29             | 15.11             | -6.75             |
| 17    | 29   | 0.00              | 0.00              | 0.00              | -17.53            | -26.16            | 0.66              | 30   | 0.00              | 0.00              | 0.00              | -15.45            | -24.68            | 0.82              |
|       | 25   | 0.00              | 0.00              | 0.00              | -17.06            | -35.58            | 0.00              | 26   | 0.00              | 0.00              | 0.00              | -14.98            | -34.10            | 0.16              |
| 18    | 30   | 0.00              | 0.00              | 0.00              | -21.36            | -23.85            | 1.61              | 31   | 0.00              | 0.00              | 0.00              | -18.03            | -20.56            | 2.29              |
|       | 26   | 0.00              | 0.00              | 0.00              | -22.76            | -33.59            | -0.90             | 27   | 0.00              | 0.00              | 0.00              | -19.43            | -30.31            | -0.22             |
| 19    | 31   | 0.00              | 0.00              | 0.00              | -22.32            | -18.20            | 3.84              | 32   | 0.00              | 0.00              | 0.00              | -10.55            | -11.34            | 4.90              |
|       | 27   | 0.00              | 0.00              | 0.00              | -24.87            | -26.68            | -0.71             | 28   | 0.00              | 0.00              | 0.00              | -13.09            | -19.82            | 0.35              |
| 20    | 32   | 0.00              | 0.00              | 0.00              | 8.27              | -6.98             | 6.65              | 16   | 0.00              | 0.00              | 0.00              | 44.45             | 4.75              | 7.86              |
|       | 28   | 0.00              | 0.00              | 0.00              | 5.65              | -6.32             | 2.01              | 13   | 0.00              | 0.00              | 0.00              | 41.83             | 5.41              | 3.21              |
| 21    | 33   | 0.00              | 0.00              | 0.00              | -10.03            | -33.08            | 1.07              | 34   | 0.00              | 0.00              | 0.00              | -10.85            | -33.40            | 2.02              |
|       | 29   | 0.00              | 0.00              | 0.00              | -14.32            | -25.66            | 1.08              | 30   | 0.00              | 0.00              | 0.00              | -15.15            | -25.98            | 2.03              |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 22    | 34   | 0.00              | 0.00              | 0.00              | -10.74            | -33.80            | 4.81              | 35   | 0.00              | 0.00              | 0.00              | -12.67            | -34.02            | 6.16              |
|       | 30   | 0.00              | 0.00              | 0.00              | -16.32            | -25.82            | 4.38              | 31   | 0.00              | 0.00              | 0.00              | -18.24            | -26.05            | 5.73              |
| 23    | 35   | 0.00              | 0.00              | 0.00              | -9.56             | -35.10            | 9.71              | 36   | 0.00              | 0.00              | 0.00              | -9.20             | -35.13            | 11.06             |
|       | 31   | 0.00              | 0.00              | 0.00              | -15.13            | -23.73            | 9.56              | 32   | 0.00              | 0.00              | 0.00              | -14.78            | -23.76            | 10.91             |
| 24    | 36   | 0.00              | 0.00              | 0.00              | -1.39             | -39.14            | 12.81             | 40   | 0.00              | 0.00              | 0.00              | 9.21              | -37.21            | 8.42              |
|       | 32   | 0.00              | 0.00              | 0.00              | 12.34             | -13.14            | 12.69             | 16   | 0.00              | 0.00              | 0.00              | 22.94             | -11.21            | 8.30              |
| 25    | 21   | 0.00              | 0.00              | 0.00              | 34.85             | 106.78            | -1.67             | 37   | 0.00              | 0.00              | 0.00              | 11.36             | 93.44             | 0.70              |
|       | 33   | 0.00              | 0.00              | 0.00              | -14.95            | -46.22            | 1.97              | 34   | 0.00              | 0.00              | 0.00              | -8.29             | -40.35            | 4.33              |
| 26    | 37   | 0.00              | 0.00              | 0.00              | 18.91             | 94.95             | -0.35             | 38   | 0.00              | 0.00              | 0.00              | 11.71             | 92.59             | -0.34             |
|       | 34   | 0.00              | 0.00              | 0.00              | -13.51            | -41.39            | 4.34              | 35   | 0.00              | 0.00              | 0.00              | -10.76            | -45.21            | 4.35              |
| 27    | 38   | 0.00              | 0.00              | 0.00              | 13.15             | 92.88             | -2.11             | 39   | 0.00              | 0.00              | 0.00              | 17.83             | 97.84             | -3.14             |
|       | 35   | 0.00              | 0.00              | 0.00              | -15.76            | -46.21            | 5.93              | 36   | 0.00              | 0.00              | 0.00              | -6.94             | -57.56            | 4.91              |
| 28    | 39   | 0.00              | 0.00              | 0.00              | 11.78             | 96.63             | -3.68             | 41   | 0.00              | 0.00              | 0.00              | 34.63             | 108.77            | -3.84             |
|       | 36   | 0.00              | 0.00              | 0.00              | -7.72             | -57.71            | 3.54              | 40   | 0.00              | 0.00              | 0.00              | -12.55            | -74.39            | 3.38              |
| 29    | 45   | 0.00              | 0.00              | 0.00              | -9.55             | -40.88            | 1.37              | 46   | 0.00              | 0.00              | 0.00              | -1.70             | -34.52            | -4.90             |
|       | 16   | 0.00              | 0.00              | 0.00              | 55.05             | 33.33             | 2.39              | 42   | 0.00              | 0.00              | 0.00              | -31.50            | 8.01              | -3.88             |
| 30    | 46   | 0.00              | 0.00              | 0.00              | -11.26            | -36.44            | 0.77              | 47   | 0.00              | 0.00              | 0.00              | -6.76             | -35.50            | -1.99             |
|       | 42   | 0.00              | 0.00              | 0.00              | 17.28             | 17.76             | 0.97              | 43   | 0.00              | 0.00              | 0.00              | -9.99             | 11.64             | -1.78             |
| 31    | 47   | 0.00              | 0.00              | 0.00              | -10.28            | -36.21            | -0.78             | 48   | 0.00              | 0.00              | 0.00              | -7.40             | -36.21            | -1.89             |
|       | 43   | 0.00              | 0.00              | 0.00              | 8.35              | 15.30             | -0.13             | 44   | 0.00              | 0.00              | 0.00              | -4.22             | 11.29             | -1.23             |
| 32    | 48   | 0.00              | 0.00              | 0.00              | -7.76             | -36.28            | -0.68             | 49   | 0.00              | 0.00              | 0.00              | -8.30             | -37.15            | -0.78             |
|       | 44   | 0.00              | 0.00              | 0.00              | 3.76              | 12.89             | -0.35             | 15   | 0.00              | 0.00              | 0.00              | 0.01              | 11.88             | -0.46             |
| 33    | 40   | 0.00              | 0.00              | 0.00              | -2.77             | -47.52            | -0.45             | 50   | 0.00              | 0.00              | 0.00              | -4.07             | -44.18            | 1.34              |
|       | 45   | 0.00              | 0.00              | 0.00              | -4.12             | -43.84            | -1.73             | 46   | 0.00              | 0.00              | 0.00              | -5.43             | -40.50            | 0.07              |
| 34    | 50   | 0.00              | 0.00              | 0.00              | -10.02            | -43.62            | -0.67             | 51   | 0.00              | 0.00              | 0.00              | -9.82             | -43.74            | -0.65             |
|       | 46   | 0.00              | 0.00              | 0.00              | -9.25             | -39.63            | -0.56             | 47   | 0.00              | 0.00              | 0.00              | -9.04             | -39.75            | -0.55             |
| 35    | 51   | 0.00              | 0.00              | 0.00              | -10.01            | -44.18            | -1.43             | 52   | 0.00              | 0.00              | 0.00              | -9.41             | -44.36            | -1.37             |
|       | 47   | 0.00              | 0.00              | 0.00              | -9.23             | -39.83            | -1.28             | 48   | 0.00              | 0.00              | 0.00              | -8.63             | -40.02            | -1.22             |
| 36    | 52   | 0.00              | 0.00              | 0.00              | -7.45             | -43.93            | -1.53             | 53   | 0.00              | 0.00              | 0.00              | -6.63             | -44.32            | -0.64             |
|       | 48   | 0.00              | 0.00              | 0.00              | -8.01             | -40.77            | -1.29             | 49   | 0.00              | 0.00              | 0.00              | -7.18             | -41.16            | -0.39             |
| 37    | 54   | 0.00              | 0.00              | 0.00              | -3.07             | -22.26            | 2.91              | 55   | 0.00              | 0.00              | 0.00              | -6.72             | -24.49            | -0.19             |
|       | 40   | 0.00              | 0.00              | 0.00              | -0.12             | -30.58            | 3.74              | 50   | 0.00              | 0.00              | 0.00              | -3.77             | -32.81            | 0.63              |
| 38    | 55   | 0.00              | 0.00              | 0.00              | -7.81             | -24.13            | -0.31             | 56   | 0.00              | 0.00              | 0.00              | -7.80             | -24.22            | -1.15             |
|       | 50   | 0.00              | 0.00              | 0.00              | -8.93             | -36.34            | -0.24             | 51   | 0.00              | 0.00              | 0.00              | -8.93             | -36.43            | -1.08             |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 39    | 56   | 0.00              | 0.00              | 0.00              | -7.22             | -24.15            | -1.47             | 57   | 0.00              | 0.00              | 0.00              | -6.63             | -24.09            | -2.08             |
|       | 51   | 0.00              | 0.00              | 0.00              | -8.72             | -36.37            | -1.43             | 52   | 0.00              | 0.00              | 0.00              | -8.14             | -36.31            | -2.04             |
| 40    | 57   | 0.00              | 0.00              | 0.00              | -3.34             | -24.16            | -2.28             | 58   | 0.00              | 0.00              | 0.00              | -2.06             | -25.36            | -2.36             |
|       | 52   | 0.00              | 0.00              | 0.00              | -5.62             | -36.47            | -1.68             | 53   | 0.00              | 0.00              | 0.00              | -4.33             | -37.68            | -1.76             |
| 41    | 41   | 0.00              | 0.00              | 0.00              | 51.34             | 141.39            | -7.31             | 59   | 0.00              | 0.00              | 0.00              | 8.63              | 118.27            | 0.30              |
|       | 54   | 0.00              | 0.00              | 0.00              | -11.81            | -14.31            | -2.68             | 55   | 0.00              | 0.00              | 0.00              | 0.73              | -11.81            | 4.93              |
| 42    | 59   | 0.00              | 0.00              | 0.00              | 24.26             | 121.39            | -0.51             | 60   | 0.00              | 0.00              | 0.00              | 20.19             | 125.91            | 0.96              |
|       | 55   | 0.00              | 0.00              | 0.00              | -7.67             | -13.49            | -2.09             | 56   | 0.00              | 0.00              | 0.00              | -5.40             | -13.40            | -0.62             |
| 43    | 60   | 0.00              | 0.00              | 0.00              | 17.95             | 125.46            | -0.74             | 61   | 0.00              | 0.00              | 0.00              | 26.40             | 126.66            | -1.04             |
|       | 56   | 0.00              | 0.00              | 0.00              | -6.10             | -13.54            | -1.50             | 57   | 0.00              | 0.00              | 0.00              | -4.20             | -10.29            | -1.79             |
| 44    | 61   | 0.00              | 0.00              | 0.00              | 9.88              | 123.36            | -1.18             | 62   | 0.00              | 0.00              | 0.00              | 53.14             | 155.54            | 0.57              |
|       | 57   | 0.00              | 0.00              | 0.00              | -3.05             | -10.06            | -5.98             | 58   | 0.00              | 0.00              | 0.00              | 1.58              | -17.54            | -4.23             |
| 45    | 49   | 0.00              | 0.00              | 0.00              | -6.13             | -36.72            | 0.34              | 66   | 0.00              | 0.00              | 0.00              | -9.23             | -37.04            | 0.68              |
|       | 15   | 0.00              | 0.00              | 0.00              | 0.27              | 11.94             | 0.11              | 63   | 0.00              | 0.00              | 0.00              | 3.48              | 13.02             | 0.45              |
| 46    | 66   | 0.00              | 0.00              | 0.00              | -7.38             | -36.67            | 1.48              | 67   | 0.00              | 0.00              | 0.00              | -10.54            | -37.28            | 0.48              |
|       | 63   | 0.00              | 0.00              | 0.00              | -3.69             | 11.58             | 1.05              | 64   | 0.00              | 0.00              | 0.00              | 7.75              | 15.20             | 0.05              |
| 47    | 67   | 0.00              | 0.00              | 0.00              | -6.99             | -36.57            | 2.08              | 68   | 0.00              | 0.00              | 0.00              | -10.89            | -34.84            | -0.40             |
|       | 64   | 0.00              | 0.00              | 0.00              | -9.14             | 11.82             | 1.09              | 65   | 0.00              | 0.00              | 0.00              | 15.95             | 17.47             | -1.40             |
| 48    | 68   | 0.00              | 0.00              | 0.00              | -6.04             | -33.87            | 1.18              | 69   | 0.00              | 0.00              | 0.00              | 10.93             | -42.44            | 4.73              |
|       | 65   | 0.00              | 0.00              | 0.00              | -26.13            | 9.05              | 1.14              | 14   | 0.00              | 0.00              | 0.00              | 48.83             | 36.13             | 4.69              |
| 49    | 53   | 0.00              | 0.00              | 0.00              | -12.49            | -54.20            | 0.87              | 70   | 0.00              | 0.00              | 0.00              | -8.93             | -50.06            | 0.89              |
|       | 49   | 0.00              | 0.00              | 0.00              | -5.85             | -35.33            | 0.23              | 66   | 0.00              | 0.00              | 0.00              | -9.31             | -37.44            | 0.26              |
| 50    | 70   | 0.00              | 0.00              | 0.00              | -10.18            | -50.32            | 1.34              | 71   | 0.00              | 0.00              | 0.00              | -12.43            | -49.61            | 1.62              |
|       | 66   | 0.00              | 0.00              | 0.00              | -7.46             | -37.07            | 0.75              | 67   | 0.00              | 0.00              | 0.00              | -10.48            | -36.98            | 1.03              |
| 51    | 71   | 0.00              | 0.00              | 0.00              | -13.16            | -49.76            | 0.55              | 72   | 0.00              | 0.00              | 0.00              | -9.38             | -50.02            | 1.11              |
|       | 67   | 0.00              | 0.00              | 0.00              | -6.93             | -36.27            | 0.74              | 68   | 0.00              | 0.00              | 0.00              | -11.26            | -36.70            | 1.29              |
| 52    | 72   | 0.00              | 0.00              | 0.00              | -10.30            | -50.20            | 0.15              | 73   | 0.00              | 0.00              | 0.00              | -6.02             | -62.32            | -7.49             |
|       | 68   | 0.00              | 0.00              | 0.00              | -6.41             | -35.73            | 5.91              | 69   | 0.00              | 0.00              | 0.00              | 11.97             | -37.25            | -1.72             |
| 53    | 58   | 0.00              | 0.00              | 0.00              | 8.48              | -12.30            | 0.42              | 74   | 0.00              | 0.00              | 0.00              | -4.66             | -11.27            | 5.40              |
|       | 53   | 0.00              | 0.00              | 0.00              | -12.35            | -53.47            | -1.43             | 70   | 0.00              | 0.00              | 0.00              | -9.04             | -50.63            | 3.55              |
| 54    | 74   | 0.00              | 0.00              | 0.00              | -5.87             | -11.51            | 2.68              | 75   | 0.00              | 0.00              | 0.00              | -5.46             | -13.92            | 0.70              |
|       | 70   | 0.00              | 0.00              | 0.00              | -10.29            | -50.88            | 2.74              | 71   | 0.00              | 0.00              | 0.00              | -12.30            | -49.00            | 0.76              |
| 55    | 75   | 0.00              | 0.00              | 0.00              | -5.86             | -14.00            | 1.23              | 76   | 0.00              | 0.00              | 0.00              | -6.58             | -12.13            | -1.30             |
|       | 71   | 0.00              | 0.00              | 0.00              | -13.03            | -49.14            | 1.73              | 72   | 0.00              | 0.00              | 0.00              | -9.79             | -52.07            | -0.81             |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 56    | 76   | 0.00              | 0.00              | 0.00              | -3.53             | -11.52            | -0.44             | 77   | 0.00              | 0.00              | 0.00              | -6.63             | -12.58            | -6.75             |
|       | 72   | 0.00              | 0.00              | 0.00              | -10.71            | -52.25            | -0.82             | 73   | 0.00              | 0.00              | 0.00              | -3.38             | -49.15            | -7.13             |
| 57    | 62   | 0.00              | 0.00              | 0.00              | 51.80             | 155.27            | 0.62              | 78   | 0.00              | 0.00              | 0.00              | 10.70             | 123.47            | -0.35             |
|       | 58   | 0.00              | 0.00              | 0.00              | 7.68              | -16.32            | 5.21              | 74   | 0.00              | 0.00              | 0.00              | -4.32             | -9.59             | 4.24              |
| 58    | 78   | 0.00              | 0.00              | 0.00              | 26.37             | 126.60            | 0.52              | 79   | 0.00              | 0.00              | 0.00              | 17.79             | 126.67            | 0.38              |
|       | 74   | 0.00              | 0.00              | 0.00              | -5.53             | -9.83             | 1.20              | 75   | 0.00              | 0.00              | 0.00              | -5.42             | -13.75            | 1.06              |
| 59    | 79   | 0.00              | 0.00              | 0.00              | 21.46             | 127.41            | -0.92             | 80   | 0.00              | 0.00              | 0.00              | 22.88             | 124.98            | -0.33             |
|       | 75   | 0.00              | 0.00              | 0.00              | -5.82             | -13.83            | 0.08              | 76   | 0.00              | 0.00              | 0.00              | -7.06             | -14.54            | 0.67              |
| 60    | 80   | 0.00              | 0.00              | 0.00              | 16.65             | 123.73            | 2.31              | 81   | 0.00              | 0.00              | 0.00              | 38.23             | 135.07            | 6.93              |
|       | 76   | 0.00              | 0.00              | 0.00              | -4.01             | -13.93            | -5.46             | 77   | 0.00              | 0.00              | 0.00              | -3.38             | 3.66              | -0.84             |
| 61    | 17   | 0.00              | 0.00              | 0.00              | 23.99             | -0.43             | 9.27              | 86   | 0.00              | 0.00              | 0.00              | 14.68             | 0.60              | 11.42             |
|       | 12   | 0.00              | 0.00              | 0.00              | 12.19             | 15.81             | 6.02              | 82   | 0.00              | 0.00              | 0.00              | 2.88              | 16.84             | 8.17              |
| 62    | 86   | 0.00              | 0.00              | 0.00              | -11.90            | -8.27             | 9.98              | 87   | 0.00              | 0.00              | 0.00              | -9.57             | -6.42             | 7.44              |
|       | 82   | 0.00              | 0.00              | 0.00              | -6.09             | 23.19             | 9.72              | 83   | 0.00              | 0.00              | 0.00              | -3.76             | 25.05             | 7.18              |
| 63    | 87   | 0.00              | 0.00              | 0.00              | -11.47            | -8.59             | 5.97              | 88   | 0.00              | 0.00              | 0.00              | -5.73             | -5.84             | 3.58              |
|       | 83   | 0.00              | 0.00              | 0.00              | -6.21             | 29.60             | 5.99              | 84   | 0.00              | 0.00              | 0.00              | -0.46             | 32.35             | 3.60              |
| 64    | 88   | 0.00              | 0.00              | 0.00              | -3.77             | -5.91             | 3.59              | 89   | 0.00              | 0.00              | 0.00              | 4.54              | -2.74             | 1.36              |
|       | 84   | 0.00              | 0.00              | 0.00              | 1.67              | 36.70             | 4.20              | 85   | 0.00              | 0.00              | 0.00              | 9.98              | 39.87             | 1.97              |
| 65    | 14   | 0.00              | 0.00              | 0.00              | 39.97             | 5.56              | -7.65             | 90   | 0.00              | 0.00              | 0.00              | 4.58              | -6.59             | -6.40             |
|       | 17   | 0.00              | 0.00              | 0.00              | 37.35             | 4.39              | -3.22             | 86   | 0.00              | 0.00              | 0.00              | 1.96              | -7.76             | -1.96             |
| 66    | 90   | 0.00              | 0.00              | 0.00              | -13.90            | -11.94            | -4.39             | 91   | 0.00              | 0.00              | 0.00              | -22.16            | -18.26            | -3.52             |
|       | 86   | 0.00              | 0.00              | 0.00              | -16.29            | -21.05            | -0.34             | 87   | 0.00              | 0.00              | 0.00              | -24.55            | -27.37            | 0.53              |
| 67    | 91   | 0.00              | 0.00              | 0.00              | -16.65            | -20.78            | -1.91             | 92   | 0.00              | 0.00              | 0.00              | -16.98            | -23.03            | -1.37             |
|       | 87   | 0.00              | 0.00              | 0.00              | -18.17            | -30.14            | -0.17             | 88   | 0.00              | 0.00              | 0.00              | -18.50            | -32.38            | 0.37              |
| 68    | 92   | 0.00              | 0.00              | 0.00              | -10.13            | -23.29            | -0.72             | 93   | 0.00              | 0.00              | 0.00              | -9.71             | -24.03            | -0.68             |
|       | 88   | 0.00              | 0.00              | 0.00              | -10.04            | -32.40            | -0.41             | 89   | 0.00              | 0.00              | 0.00              | -9.62             | -33.13            | -0.37             |
| 69    | 94   | 0.00              | 0.00              | 0.00              | -0.98             | -31.58            | -12.90            | 90   | 0.00              | 0.00              | 0.00              | 8.33              | -11.92            | -13.28            |
|       | 69   | 0.00              | 0.00              | 0.00              | 19.25             | -20.97            | -10.95            | 14   | 0.00              | 0.00              | 0.00              | 28.56             | -1.31             | -11.33            |
| 70    | 94   | 0.00              | 0.00              | 0.00              | -9.51             | -32.10            | -9.06             | 95   | 0.00              | 0.00              | 0.00              | -10.22            | -31.71            | -7.20             |
|       | 90   | 0.00              | 0.00              | 0.00              | -15.65            | -24.68            | -9.40             | 91   | 0.00              | 0.00              | 0.00              | -16.36            | -24.29            | -7.54             |
| 71    | 95   | 0.00              | 0.00              | 0.00              | -12.43            | -31.63            | -4.55             | 96   | 0.00              | 0.00              | 0.00              | -10.45            | -31.48            | -3.53             |
|       | 91   | 0.00              | 0.00              | 0.00              | -15.95            | -24.41            | -4.04             | 92   | 0.00              | 0.00              | 0.00              | -13.96            | -24.25            | -3.02             |
| 72    | 96   | 0.00              | 0.00              | 0.00              | -7.29             | -31.19            | -1.87             | 97   | 0.00              | 0.00              | 0.00              | -5.63             | -31.06            | -1.24             |
|       | 92   | 0.00              | 0.00              | 0.00              | -9.64             | -23.53            | -1.41             | 93   | 0.00              | 0.00              | 0.00              | -7.98             | -23.41            | -0.78             |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 73    | 77   | 0.00              | 0.00              | 0.00              | 6.03              | 8.82              | -0.66             | 98   | 0.00              | 0.00              | 0.00              | 26.92             | 34.67             | 2.87              |
|       | 73   | 0.00              | 0.00              | 0.00              | -3.26             | -35.89            | -4.82             | 94   | 0.00              | 0.00              | 0.00              | 17.63             | -10.04            | -1.30             |
| 74    | 98   | 0.00              | 0.00              | 0.00              | 5.94              | 41.94             | 0.00              | 99   | 0.00              | 0.00              | 0.00              | 4.95              | 45.39             | 1.44              |
|       | 94   | 0.00              | 0.00              | 0.00              | 2.20              | -3.68             | -4.46             | 95   | 0.00              | 0.00              | 0.00              | 1.20              | -0.23             | -3.01             |
| 75    | 99   | 0.00              | 0.00              | 0.00              | 2.46              | 47.55             | -1.67             | 100  | 0.00              | 0.00              | 0.00              | 3.68              | 48.67             | -0.21             |
|       | 95   | 0.00              | 0.00              | 0.00              | -1.10             | 1.48              | -3.03             | 96   | 0.00              | 0.00              | 0.00              | 0.12              | 2.60              | -1.57             |
| 76    | 100  | 0.00              | 0.00              | 0.00              | 6.41              | 50.04             | -1.76             | 101  | 0.00              | 0.00              | 0.00              | 11.31             | 51.33             | -0.02             |
|       | 96   | 0.00              | 0.00              | 0.00              | 2.17              | 3.57              | -2.48             | 97   | 0.00              | 0.00              | 0.00              | 7.06              | 4.86              | -0.74             |
| 77    | 94   | 0.00              | 0.00              | 0.00              | -5.72             | -52.12            | -4.88             | 94   | 0.00              | 0.00              | 0.00              | -5.72             | -52.12            | -4.88             |
|       | 73   | 0.00              | 0.00              | 0.00              | -5.72             | -52.12            | -4.88             | 69   | 0.00              | 0.00              | 0.00              | -5.72             | -52.12            | -4.88             |
| 78    | 81   | 0.00              | 0.00              | 0.00              | 9.10              | 57.22             | 10.58             | 81   | 0.00              | 0.00              | 0.00              | 9.10              | 57.22             | 10.58             |
|       | 77   | 0.00              | 0.00              | 0.00              | 9.10              | 57.22             | 10.58             | 98   | 0.00              | 0.00              | 0.00              | 9.10              | 57.22             | 10.58             |
| 79    | 89   | 0.00              | 0.00              | 0.00              | -17.05            | -57.42            | -1.42             | 106  | 0.00              | 0.00              | 0.00              | -5.79             | -44.54            | -4.04             |
|       | 85   | 0.00              | 0.00              | 0.00              | 43.60             | 98.97             | -0.42             | 102  | 0.00              | 0.00              | 0.00              | 0.51              | 78.38             | -3.04             |
| 80    | 106  | 0.00              | 0.00              | 0.00              | -10.46            | -45.47            | -2.06             | 107  | 0.00              | 0.00              | 0.00              | -9.56             | -44.15            | -0.76             |
|       | 102  | 0.00              | 0.00              | 0.00              | 15.69             | 81.41             | -1.82             | 103  | 0.00              | 0.00              | 0.00              | 8.73              | 78.55             | -0.52             |
| 81    | 107  | 0.00              | 0.00              | 0.00              | -10.01            | -44.25            | -0.21             | 108  | 0.00              | 0.00              | 0.00              | -9.46             | -43.82            | 1.16              |
|       | 103  | 0.00              | 0.00              | 0.00              | 10.30             | 78.87             | -0.30             | 104  | 0.00              | 0.00              | 0.00              | 13.66             | 79.33             | 1.08              |
| 82    | 108  | 0.00              | 0.00              | 0.00              | -6.79             | -43.28            | 3.74              | 109  | 0.00              | 0.00              | 0.00              | -9.84             | -50.02            | 2.62              |
|       | 104  | 0.00              | 0.00              | 0.00              | 4.32              | 77.46             | 0.71              | 105  | 0.00              | 0.00              | 0.00              | 36.81             | 94.23             | -0.42             |
| 83    | 93   | 0.00              | 0.00              | 0.00              | -2.46             | -11.86            | -0.74             | 110  | 0.00              | 0.00              | 0.00              | -3.62             | -11.57            | -0.49             |
|       | 89   | 0.00              | 0.00              | 0.00              | -14.78            | -46.09            | -0.29             | 106  | 0.00              | 0.00              | 0.00              | -5.98             | -45.47            | -0.04             |
| 84    | 110  | 0.00              | 0.00              | 0.00              | -2.09             | -11.26            | -0.15             | 111  | 0.00              | 0.00              | 0.00              | -2.21             | -11.74            | 0.41              |
|       | 106  | 0.00              | 0.00              | 0.00              | -10.64            | -46.40            | -1.10             | 107  | 0.00              | 0.00              | 0.00              | -9.62             | -44.45            | -0.54             |
| 85    | 111  | 0.00              | 0.00              | 0.00              | -2.14             | -11.72            | -0.35             | 112  | 0.00              | 0.00              | 0.00              | -1.94             | -11.84            | 0.24              |
|       | 107  | 0.00              | 0.00              | 0.00              | -10.07            | -44.54            | 0.19              | 108  | 0.00              | 0.00              | 0.00              | -9.71             | -45.05            | 0.78              |
| 86    | 112  | 0.00              | 0.00              | 0.00              | -2.61             | -11.97            | -0.17             | 113  | 0.00              | 0.00              | 0.00              | -1.89             | -10.96            | -0.63             |
|       | 108  | 0.00              | 0.00              | 0.00              | -7.04             | -44.52            | 0.99              | 109  | 0.00              | 0.00              | 0.00              | -9.32             | -47.43            | 0.54              |
| 87    | 97   | 0.00              | 0.00              | 0.00              | -11.09            | -43.36            | -0.24             | 114  | 0.00              | 0.00              | 0.00              | -4.94             | -41.43            | 0.31              |
|       | 93   | 0.00              | 0.00              | 0.00              | -2.40             | -11.56            | -0.77             | 110  | 0.00              | 0.00              | 0.00              | -3.66             | -11.80            | -0.22             |
| 88    | 114  | 0.00              | 0.00              | 0.00              | -8.69             | -42.18            | 0.92              | 115  | 0.00              | 0.00              | 0.00              | -8.69             | -40.31            | 0.65              |
|       | 110  | 0.00              | 0.00              | 0.00              | -2.14             | -11.50            | -0.26             | 111  | 0.00              | 0.00              | 0.00              | -2.22             | -11.77            | -0.54             |
| 89    | 115  | 0.00              | 0.00              | 0.00              | -8.84             | -40.34            | -0.21             | 116  | 0.00              | 0.00              | 0.00              | -8.88             | -40.96            | -0.71             |
|       | 111  | 0.00              | 0.00              | 0.00              | -2.15             | -11.76            | 0.30              | 112  | 0.00              | 0.00              | 0.00              | -1.93             | -11.81            | -0.19             |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 90    | 116  | 0.00              | 0.00              | 0.00              | -6.25             | -40.43            | -0.89             | 117  | 0.00              | 0.00              | 0.00              | -8.37             | -43.10            | -0.42             |
|       | 112  | 0.00              | 0.00              | 0.00              | -2.61             | -11.94            | 0.15              | 113  | 0.00              | 0.00              | 0.00              | -1.89             | -10.97            | 0.62              |
| 91    | 101  | 0.00              | 0.00              | 0.00              | 42.45             | 112.83            | 0.55              | 118  | 0.00              | 0.00              | 0.00              | 6.04              | 91.05             | 2.15              |
|       | 97   | 0.00              | 0.00              | 0.00              | -13.14            | -53.63            | 2.53              | 114  | 0.00              | 0.00              | 0.00              | -4.68             | -40.15            | 4.13              |
| 92    | 118  | 0.00              | 0.00              | 0.00              | 17.88             | 93.42             | 1.67              | 119  | 0.00              | 0.00              | 0.00              | 12.37             | 90.93             | 0.31              |
|       | 114  | 0.00              | 0.00              | 0.00              | -8.43             | -40.90            | 2.01              | 115  | 0.00              | 0.00              | 0.00              | -8.63             | -40.01            | 0.65              |
| 93    | 119  | 0.00              | 0.00              | 0.00              | 12.89             | 91.04             | 0.11              | 120  | 0.00              | 0.00              | 0.00              | 16.85             | 91.40             | -1.14             |
|       | 115  | 0.00              | 0.00              | 0.00              | -8.78             | -40.04            | 0.19              | 116  | 0.00              | 0.00              | 0.00              | -8.63             | -39.70            | -1.06             |
| 94    | 120  | 0.00              | 0.00              | 0.00              | 7.62              | 89.56             | -0.61             | 121  | 0.00              | 0.00              | 0.00              | 38.43             | 105.81            | 0.54              |
|       | 116  | 0.00              | 0.00              | 0.00              | -5.99             | -39.18            | -3.58             | 117  | 0.00              | 0.00              | 0.00              | -8.92             | -45.80            | -2.43             |
| 95    | 109  | 0.00              | 0.00              | 0.00              | -9.73             | -50.00            | -2.63             | 126  | 0.00              | 0.00              | 0.00              | -6.59             | -43.51            | -3.61             |
|       | 105  | 0.00              | 0.00              | 0.00              | 35.94             | 94.06             | 0.27              | 122  | 0.00              | 0.00              | 0.00              | 5.43              | 78.45             | -0.70             |
| 96    | 126  | 0.00              | 0.00              | 0.00              | -9.44             | -44.08            | -1.30             | 127  | 0.00              | 0.00              | 0.00              | -9.33             | -43.86            | 0.11              |
|       | 122  | 0.00              | 0.00              | 0.00              | 15.23             | 80.41             | -1.32             | 123  | 0.00              | 0.00              | 0.00              | 8.99              | 78.99             | 0.09              |
| 97    | 127  | 0.00              | 0.00              | 0.00              | -9.38             | -43.87            | 0.84              | 128  | 0.00              | 0.00              | 0.00              | -9.33             | -44.72            | 2.29              |
|       | 123  | 0.00              | 0.00              | 0.00              | 9.28              | 79.05             | 0.17              | 124  | 0.00              | 0.00              | 0.00              | 15.24             | 81.94             | 1.62              |
| 98    | 128  | 0.00              | 0.00              | 0.00              | -6.47             | -44.15            | 4.57              | 129  | 0.00              | 0.00              | 0.00              | -12.02            | -52.11            | 3.36              |
|       | 124  | 0.00              | 0.00              | 0.00              | 5.69              | 80.03             | 1.21              | 125  | 0.00              | 0.00              | 0.00              | 36.10             | 97.18             | -0.01             |
| 99    | 113  | 0.00              | 0.00              | 0.00              | -1.96             | -10.97            | 0.66              | 130  | 0.00              | 0.00              | 0.00              | -2.39             | -11.93            | 0.19              |
|       | 109  | 0.00              | 0.00              | 0.00              | -9.21             | -47.41            | -0.43             | 126  | 0.00              | 0.00              | 0.00              | -6.83             | -44.70            | -0.90             |
| 100   | 130  | 0.00              | 0.00              | 0.00              | -1.68             | -11.78            | -0.15             | 131  | 0.00              | 0.00              | 0.00              | -1.60             | -11.90            | 0.42              |
|       | 126  | 0.00              | 0.00              | 0.00              | -9.68             | -45.27            | -0.71             | 127  | 0.00              | 0.00              | 0.00              | -9.44             | -44.39            | -0.13             |
| 101   | 131  | 0.00              | 0.00              | 0.00              | -1.51             | -11.89            | -0.45             | 132  | 0.00              | 0.00              | 0.00              | -1.67             | -12.04            | 0.12              |
|       | 127  | 0.00              | 0.00              | 0.00              | -9.49             | -44.40            | 0.77              | 128  | 0.00              | 0.00              | 0.00              | -9.55             | -45.83            | 1.34              |
| 102   | 132  | 0.00              | 0.00              | 0.00              | -2.18             | -12.14            | -0.10             | 133  | 0.00              | 0.00              | 0.00              | -5.12             | -11.90            | -0.81             |
|       | 128  | 0.00              | 0.00              | 0.00              | -6.70             | -45.26            | 1.46              | 129  | 0.00              | 0.00              | 0.00              | -11.39            | -48.98            | 0.75              |
| 103   | 117  | 0.00              | 0.00              | 0.00              | -8.17             | -43.06            | 0.54              | 134  | 0.00              | 0.00              | 0.00              | -6.08             | -40.35            | 1.02              |
|       | 113  | 0.00              | 0.00              | 0.00              | -1.96             | -10.99            | -0.64             | 130  | 0.00              | 0.00              | 0.00              | -2.39             | -11.88            | -0.16             |
| 104   | 134  | 0.00              | 0.00              | 0.00              | -8.70             | -40.87            | 0.90              | 135  | 0.00              | 0.00              | 0.00              | -8.36             | -39.67            | 0.37              |
|       | 130  | 0.00              | 0.00              | 0.00              | -1.67             | -11.74            | 0.10              | 131  | 0.00              | 0.00              | 0.00              | -1.59             | -11.86            | -0.43             |
| 105   | 135  | 0.00              | 0.00              | 0.00              | -8.48             | -39.69            | -0.45             | 136  | 0.00              | 0.00              | 0.00              | -8.26             | -40.55            | -0.95             |
|       | 131  | 0.00              | 0.00              | 0.00              | -1.50             | -11.84            | 0.36              | 132  | 0.00              | 0.00              | 0.00              | -1.66             | -12.00            | -0.14             |
| 106   | 136  | 0.00              | 0.00              | 0.00              | -5.81             | -40.06            | -1.03             | 137  | 0.00              | 0.00              | 0.00              | -9.55             | -42.83            | -0.23             |
|       | 132  | 0.00              | 0.00              | 0.00              | -2.17             | -12.10            | -0.01             | 133  | 0.00              | 0.00              | 0.00              | -5.12             | -11.94            | 0.80              |



TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11    | M22    | M12    | Nodo | S11   | S22   | S12   | M11    | M22    | M12    |
|-------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|-------|--------|--------|--------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq  | N.ro | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq  |
| 107   | 121  | 0.00  | 0.00  | 0.00  | 37.13  | 105.55 | -0.53  | 138  | 0.00  | 0.00  | 0.00  | 8.90   | 89.62  | 0.47   |
|       | 117  | 0.00  | 0.00  | 0.00  | -8.71  | -45.76 | 2.87   | 134  | 0.00  | 0.00  | 0.00  | -5.84  | -39.16 | 3.86   |
| 108   | 138  | 0.00  | 0.00  | 0.00  | 17.77  | 91.39  | 1.21   | 139  | 0.00  | 0.00  | 0.00  | 11.80  | 89.28  | -0.01  |
|       | 134  | 0.00  | 0.00  | 0.00  | -8.46  | -39.69 | 1.59   | 135  | 0.00  | 0.00  | 0.00  | -8.27  | -39.20 | 0.37   |
| 109   | 139  | 0.00  | 0.00  | 0.00  | 12.17  | 89.35  | -0.09  | 140  | 0.00  | 0.00  | 0.00  | 17.37  | 90.93  | -1.35  |
|       | 135  | 0.00  | 0.00  | 0.00  | -8.39  | -39.23 | -0.28  | 136  | 0.00  | 0.00  | 0.00  | -8.04  | -39.44 | -1.55  |
| 110   | 140  | 0.00  | 0.00  | 0.00  | 9.11   | 89.28  | -0.81  | 141  | 0.00  | 0.00  | 0.00  | 36.71  | 104.74 | 0.45   |
|       | 136  | 0.00  | 0.00  | 0.00  | -5.59  | -38.95 | -3.78  | 137  | 0.00  | 0.00  | 0.00  | -10.20 | -46.09 | -2.51  |
| 111   | 129  | 0.00  | 0.00  | 0.00  | -11.77 | -52.06 | -2.09  | 146  | 0.00  | 0.00  | 0.00  | -17.49 | -48.50 | -5.51  |
|       | 125  | 0.00  | 0.00  | 0.00  | 36.32  | 97.23  | 1.54   | 142  | 0.00  | 0.00  | 0.00  | 5.15   | 81.49  | -1.89  |
| 112   | 146  | 0.00  | 0.00  | 0.00  | -19.81 | -48.97 | -4.68  | 147  | 0.00  | 0.00  | 0.00  | -34.76 | -49.25 | -10.67 |
|       | 142  | 0.00  | 0.00  | 0.00  | 14.92  | 83.44  | -0.33  | 143  | 0.00  | 0.00  | 0.00  | 7.57   | 73.50  | -6.32  |
| 113   | 147  | 0.00  | 0.00  | 0.00  | -34.79 | -49.26 | -13.69 | 148  | 0.00  | 0.00  | 0.00  | -29.03 | -30.50 | -23.26 |
|       | 143  | 0.00  | 0.00  | 0.00  | 7.43   | 73.47  | -3.55  | 144  | 0.00  | 0.00  | 0.00  | 9.54   | 42.84  | -13.12 |
| 114   | 148  | 0.00  | 0.00  | 0.00  | -31.13 | -30.92 | -25.01 | 149  | 0.00  | 0.00  | 0.00  | 92.91  | -0.42  | -11.93 |
|       | 144  | 0.00  | 0.00  | 0.00  | -4.91  | 39.95  | -18.05 | 145  | 0.00  | 0.00  | 0.00  | 30.57  | 32.14  | -4.97  |
| 115   | 133  | 0.00  | 0.00  | 0.00  | -4.84  | -11.84 | 1.29   | 150  | 0.00  | 0.00  | 0.00  | -16.81 | -13.94 | -0.40  |
|       | 129  | 0.00  | 0.00  | 0.00  | -11.15 | -48.93 | -0.88  | 146  | 0.00  | 0.00  | 0.00  | -17.30 | -47.58 | -2.57  |
| 116   | 150  | 0.00  | 0.00  | 0.00  | -16.46 | -13.87 | 1.81   | 151  | 0.00  | 0.00  | 0.00  | -32.72 | -13.32 | -0.22  |
|       | 146  | 0.00  | 0.00  | 0.00  | -19.62 | -48.05 | -5.07  | 147  | 0.00  | 0.00  | 0.00  | -34.03 | -45.62 | -7.10  |
| 117   | 151  | 0.00  | 0.00  | 0.00  | -35.17 | -13.81 | 2.67   | 152  | 0.00  | 0.00  | 0.00  | -20.47 | -5.70  | 1.78   |
|       | 147  | 0.00  | 0.00  | 0.00  | -34.07 | -45.63 | -10.94 | 148  | 0.00  | 0.00  | 0.00  | -29.30 | -31.81 | -11.83 |
| 118   | 152  | 0.00  | 0.00  | 0.00  | -24.41 | -6.49  | 4.64   | 153  | 0.00  | 0.00  | 0.00  | 111.64 | 21.95  | 8.34   |
|       | 148  | 0.00  | 0.00  | 0.00  | -31.39 | -32.23 | -14.80 | 149  | 0.00  | 0.00  | 0.00  | 96.58  | 17.90  | -11.10 |
| 119   | 137  | 0.00  | 0.00  | 0.00  | -9.83  | -42.89 | 1.30   | 154  | 0.00  | 0.00  | 0.00  | -14.65 | -40.67 | 3.31   |
|       | 133  | 0.00  | 0.00  | 0.00  | -4.85  | -11.88 | -1.23  | 150  | 0.00  | 0.00  | 0.00  | -16.84 | -14.11 | 0.78   |
| 120   | 154  | 0.00  | 0.00  | 0.00  | -17.45 | -41.23 | 5.37   | 155  | 0.00  | 0.00  | 0.00  | -29.18 | -38.45 | 8.37   |
|       | 150  | 0.00  | 0.00  | 0.00  | -16.49 | -14.04 | -1.11  | 151  | 0.00  | 0.00  | 0.00  | -32.83 | -13.86 | 1.90   |
| 121   | 155  | 0.00  | 0.00  | 0.00  | -29.79 | -38.57 | 11.53  | 156  | 0.00  | 0.00  | 0.00  | -24.25 | -28.93 | 14.10  |
|       | 151  | 0.00  | 0.00  | 0.00  | -35.28 | -14.34 | -0.22  | 152  | 0.00  | 0.00  | 0.00  | -20.19 | -4.28  | 2.35   |
| 122   | 156  | 0.00  | 0.00  | 0.00  | -27.80 | -29.64 | 17.79  | 157  | 0.00  | 0.00  | 0.00  | 86.42  | 30.40  | 11.88  |
|       | 152  | 0.00  | 0.00  | 0.00  | -24.13 | -5.07  | 0.10   | 153  | 0.00  | 0.00  | 0.00  | 108.80 | 7.75   | -5.80  |
| 123   | 141  | 0.00  | 0.00  | 0.00  | 38.72  | 105.14 | -1.44  | 158  | 0.00  | 0.00  | 0.00  | 6.87   | 87.04  | 1.99   |
|       | 137  | 0.00  | 0.00  | 0.00  | -10.48 | -46.15 | 3.15   | 154  | 0.00  | 0.00  | 0.00  | -14.79 | -41.37 | 6.59   |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11    | S22    | S12    | M11    | M22    | M12   | Nodo | S11   | S22   | S12    | M11    | M22    | M12   |
|-------|------|--------|--------|--------|--------|--------|-------|------|-------|-------|--------|--------|--------|-------|
| Nro   | Nro  | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq | N.ro | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq  | N/cmq |
| 124   | 158  | 0.00   | 0.00   | 0.00   | 17.97  | 89.26  | 0.57  | 159  | 0.00  | 0.00  | 0.00   | 8.50   | 77.88  | 6.03  |
|       | 154  | 0.00   | 0.00   | 0.00   | -17.59 | -41.93 | 5.85  | 155  | 0.00  | 0.00  | 0.00   | -29.87 | -41.90 | 11.31 |
| 125   | 159  | 0.00   | 0.00   | 0.00   | 11.55  | 78.49  | 3.25  | 160  | 0.00  | 0.00  | 0.00   | 8.55   | 48.18  | 11.37 |
|       | 155  | 0.00   | 0.00   | 0.00   | -30.48 | -42.03 | 14.53 | 156  | 0.00  | 0.00  | 0.00   | -23.65 | -25.91 | 22.65 |
| 126   | 160  | 0.00   | 0.00   | 0.00   | 9.70   | 48.41  | 14.96 | 161  | 0.00  | 0.00  | 0.00   | 14.11  | 45.29  | 2.67  |
|       | 156  | 0.00   | 0.00   | 0.00   | -27.20 | -26.62 | 26.47 | 157  | 0.00  | 0.00  | 0.00   | 76.93  | -17.05 | 14.19 |
| 127   | 162  | -2.72  | -14.71 | 23.99  | -0.63  | -3.17  | -7.07 | 301  | -0.28 | -2.52 | 43.81  | 0.33   | 1.65   | -7.07 |
|       | 18   | -2.72  | -14.71 | 6.71   | 9.08   | 45.39  | 6.87  | 283  | -0.28 | -2.52 | 26.52  | -3.56  | -17.82 | 6.87  |
| 128   | 163  | -9.60  | -39.45 | 24.55  | 6.11   | 30.56  | -1.09 | 304  | -1.03 | 3.41  | 27.86  | -1.28  | -6.39  | -1.09 |
|       | 19   | -9.60  | -39.45 | 3.12   | -12.01 | -60.07 | 0.89  | 22   | -1.03 | 3.41  | 6.44   | -6.19  | -30.94 | 0.89  |
| 129   | 164  | -6.34  | -21.31 | -33.63 | -1.33  | -6.64  | 0.39  | 310  | -0.30 | 8.89  | -32.55 | 0.26   | 1.32   | 0.39  |
|       | 11   | -6.34  | -21.31 | -39.70 | 0.43   | 2.17   | -0.59 | 307  | -0.30 | 8.89  | -38.63 | -0.13  | -0.66  | -0.59 |
| 130   | 166  | -13.56 | -54.29 | 17.97  | 4.49   | 22.46  | -3.39 | 316  | 1.85  | 22.77 | 19.42  | -0.96  | -4.79  | -3.39 |
|       | 165  | -13.56 | -54.29 | -11.45 | 1.30   | 6.50   | 3.19  | 313  | 1.85  | 22.77 | -10.00 | -0.16  | -0.81  | 3.19  |
| 131   | 167  | -6.25  | -28.81 | 42.36  | -0.77  | -3.86  | 0.88  | 319  | -0.52 | -0.18 | 43.73  | -0.06  | -0.30  | 0.88  |
|       | 12   | -6.25  | -28.81 | 24.15  | -0.36  | -1.82  | -1.08 | 82   | -0.52 | -0.18 | 25.52  | 0.69   | 3.43   | -1.08 |
| 132   | 168  | -9.55  | -37.36 | 30.68  | 6.66   | 33.28  | -3.11 | 322  | -0.74 | 6.69  | 34.51  | -1.53  | -7.64  | -3.11 |
|       | 85   | -9.55  | -37.36 | 12.43  | -11.23 | -56.14 | 2.91  | 102  | -0.74 | 6.69  | 16.26  | -8.75  | -43.77 | 2.91  |
| 133   | 169  | -9.40  | -38.49 | 28.20  | 6.36   | 31.81  | -3.76 | 325  | -0.62 | 5.41  | 30.77  | -1.39  | -6.96  | -3.76 |
|       | 105  | -9.40  | -38.49 | 7.39   | -9.90  | -49.51 | 3.56  | 122  | -0.62 | 5.41  | 9.96   | -8.56  | -42.78 | 3.56  |
| 134   | 170  | -9.22  | -35.82 | 23.44  | 6.15   | 30.73  | -3.39 | 328  | -1.00 | 5.25  | 22.79  | -1.28  | -6.38  | -3.39 |
|       | 125  | -9.22  | -35.82 | 7.74   | -10.36 | -51.81 | 3.19  | 142  | -1.00 | 5.25  | 7.08   | -9.03  | -45.13 | 3.19  |
| 135   | 172  | -3.17  | -16.91 | 8.75   | 1.81   | 9.06   | 7.20  | 331  | -0.21 | -2.12 | 10.99  | -0.63  | -3.13  | 7.20  |
|       | 20   | -3.17  | -16.91 | -3.35  | -7.80  | -39.01 | -7.40 | 298  | -0.21 | -2.12 | -1.11  | 6.87   | 34.34  | -7.40 |
| 136   | 173  | -8.83  | -34.44 | 16.22  | -7.78  | -38.88 | 4.64  | 334  | -1.20 | 3.73  | 16.65  | 1.64   | 8.22   | 4.64  |
|       | 21   | -8.83  | -34.44 | 0.34   | 13.77  | 68.85  | -4.84 | 37   | -1.20 | 3.73  | 0.77   | 11.82  | 59.09  | -4.84 |
| 137   | 174  | -8.69  | -30.79 | 17.62  | -8.60  | -43.00 | 5.56  | 337  | -1.16 | 6.88  | 18.41  | 2.00   | 9.98   | 5.56  |
|       | 41   | -8.69  | -30.79 | 10.27  | 16.89  | 84.45  | -5.75 | 59   | -1.16 | 6.88  | 11.05  | 18.17  | 90.84  | -5.75 |
| 138   | 175  | -9.32  | -37.39 | 26.78  | -9.61  | -48.03 | 3.85  | 340  | -0.25 | 7.96  | 28.92  | 2.29   | 11.44  | 3.85  |
|       | 62   | -9.32  | -37.39 | 9.02   | 22.17  | 110.83 | -4.05 | 78   | -0.25 | 7.96  | 11.16  | 18.57  | 92.86  | -4.05 |
| 139   | 176  | -7.77  | -33.68 | 31.63  | -8.42  | -42.11 | 5.53  | 343  | -1.13 | -0.50 | 27.07  | 1.63   | 8.15   | 5.53  |
|       | 81   | -7.77  | -33.68 | 17.50  | 17.05  | 85.23  | -5.73 | 98   | -1.13 | -0.50 | 12.95  | 17.14  | 85.68  | -5.73 |
| 140   | 177  | -8.81  | -34.09 | 23.89  | -7.94  | -39.70 | 3.79  | 346  | -0.81 | 5.91  | 26.62  | 1.82   | 9.08   | 3.79  |
|       | 101  | -8.81  | -34.09 | 8.38   | 14.03  | 70.14  | -3.99 | 118  | -0.81 | 5.91  | 11.12  | 11.67  | 58.34  | -3.99 |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 141   | 178  | -8.89             | -36.28            | 25.08             | -7.67             | -38.33            | 4.15              | 349  | -0.61             | 5.14              | 28.12             | 1.69              | 8.45              | 4.15              |
|       | 121  | -8.89             | -36.28            | 5.70              | 13.08             | 65.39             | -4.35             | 138  | -0.61             | 5.14              | 8.75              | 11.16             | 55.78             | -4.35             |
| 142   | 179  | -8.81             | -34.66            | 26.45             | -7.42             | -37.10            | 3.68              | 352  | -0.77             | 5.52              | 28.80             | 1.54              | 7.70              | 3.68              |
|       | 141  | -8.81             | -34.66            | 9.84              | 12.98             | 64.90             | -3.88             | 158  | -0.77             | 5.52              | 12.18             | 11.01             | 55.07             | -3.88             |
| 143   | 162  | -6.38             | -21.69            | 2.62              | 7.27              | 36.36             | 2.71              | 355  | -0.50             | 7.71              | 4.10              | -2.01             | -10.05            | 2.71              |
|       | 18   | -6.38             | -21.69            | 15.78             | -3.45             | -17.25            | -2.91             | 286  | -0.50             | 7.71              | 17.25             | 15.24             | 76.21             | -2.91             |
| 144   | 171  | -6.15             | -20.99            | 5.92              | -6.45             | -32.25            | -2.96             | 358  | -0.43             | 7.61              | 9.16              | 1.80              | 9.02              | -2.96             |
|       | 145  | -6.15             | -20.99            | 18.16             | 3.67              | 18.33             | 2.76              | 149  | -0.43             | 7.61              | 21.40             | -14.16            | -70.78            | 2.76              |
| 145   | 164  | -5.66             | -24.41            | 46.98             | 1.34              | 6.70              | -0.67             | 361  | 0.91              | 8.44              | 57.45             | -3.93             | -19.66            | -0.67             |
|       | 11   | -5.66             | -24.41            | 33.14             | -3.98             | -19.92            | 0.47              | 266  | 0.91              | 8.44              | 43.60             | 0.03              | 0.13              | 0.47              |
| 146   | 181  | -0.83             | -11.38            | 37.68             | 14.65             | 73.26             | 9.62              | 362  | 2.11              | 3.31              | 37.76             | -5.07             | -25.34            | 9.62              |
|       | 13   | -0.83             | -11.38            | 28.00             | -27.74            | -138.68           | -9.82             | 277  | 2.11              | 3.31              | 28.08             | 4.62              | 23.12             | -9.82             |
| 147   | 167  | -5.52             | -24.09            | 48.18             | -3.70             | -18.51            | 0.82              | 363  | 0.98              | 8.43              | 59.39             | 4.45              | 22.24             | 0.82              |
|       | 12   | -5.52             | -24.09            | 33.84             | 6.12              | 30.59             | -1.02             | 280  | 0.98              | 8.43              | 45.04             | -0.01             | -0.03             | -1.02             |
| 148   | 183  | -0.81             | -10.98            | 38.77             | -14.64            | -73.19            | -8.72             | 364  | 1.98              | 2.97              | 39.84             | 4.65              | 23.23             | -8.72             |
|       | 17   | -0.81             | -10.98            | 29.72             | 26.41             | 132.05            | 8.52              | 282  | 1.98              | 2.97              | 30.79             | -4.08             | -20.41            | 8.52              |
| 149   | 182  | -3.84             | -4.85             | 1.58              | -3.60             | -18.00            | 0.94              | 365  | -1.70             | 5.86              | 13.25             | 0.86              | 4.29              | 0.94              |
|       | 16   | -3.84             | -4.85             | 12.77             | -6.27             | -31.37            | -1.14             | 42   | -1.70             | 5.86              | 24.44             | -8.56             | -42.78            | -1.14             |
| 150   | 185  | -0.39             | -2.24             | -1.35             | -0.04             | -0.19             | -0.36             | 368  | -0.33             | -1.92             | -3.20             | 0.03              | 0.17              | -0.36             |
|       | 15   | -0.39             | -2.24             | -1.14             | -6.33             | -31.63            | 0.16              | 63   | -0.33             | -1.92             | -3.00             | -6.94             | -34.71            | 0.16              |
| 151   | 217  | 2.01              | -0.32             | -1.50             | -41.11            | -12.87            | -10.96            | 218  | 1.87              | -1.06             | -3.78             | -52.33            | -31.68            | 6.97              |
|       | 213  | 13.52             | 1.98              | 0.95              | -53.31            | -12.81            | -13.52            | 214  | 13.37             | 1.25              | -1.33             | -77.92            | 4.70              | 4.40              |
| 152   | 218  | 4.19              | -0.65             | -1.04             | -54.40            | -32.09            | -0.75             | 219  | 4.11              | -1.05             | -2.46             | -20.22            | -16.85            | 24.46             |
|       | 214  | 15.66             | 1.64              | 0.57              | -74.80            | 5.32              | 13.85             | 215  | 15.58             | 1.25              | -0.85             | -59.02            | -33.38            | 39.06             |
| 153   | 219  | 5.25              | -0.70             | -0.34             | -9.68             | -14.74            | 64.51             | 220  | 4.79              | -2.97             | -1.16             | 41.47             | -117.05           | 32.26             |
|       | 215  | 16.75             | 1.60              | 1.20              | -85.79            | -38.73            | 29.67             | 2    | 16.30             | -0.67             | 0.37              | 261.92            | 223.18            | -2.58             |
| 154   | 3    | -2.47             | -5.28             | -6.78             | 41.93             | -1.37             | -14.49            | 221  | -1.40             | 0.06              | -5.19             | -26.48            | -16.03            | -20.60            |
|       | 216  | -3.05             | -5.40             | -9.19             | 69.89             | 24.61             | -3.45             | 217  | -1.99             | -0.06             | -7.60             | -34.81            | -20.64            | -9.56             |
| 155   | 221  | -3.67             | -0.43             | -4.07             | -29.65            | -16.67            | -16.32            | 222  | -3.74             | -0.74             | -4.55             | -26.02            | -26.44            | -1.41             |
|       | 217  | 2.49              | 0.80              | -3.84             | -42.99            | -22.27            | -11.56            | 218  | 2.43              | 0.49              | -4.33             | -50.84            | -24.27            | 3.35              |
| 156   | 222  | -3.81             | -0.68             | -2.11             | -26.27            | -26.49            | -1.89             | 223  | -3.94             | -1.33             | -2.67             | -17.06            | -32.24            | 11.33             |
|       | 218  | 4.63              | 1.00              | -1.59             | -52.92            | -24.68            | 8.31              | 219  | 4.50              | 0.36              | -2.15             | -23.77            | -34.61            | 21.53             |
| 157   | 223  | -3.92             | -1.33             | -0.53             | -14.29            | -31.68            | 8.02              | 4    | -4.05             | -1.96             | -1.24             | 28.97             | 3.18              | -7.01             |
|       | 219  | 5.75              | 0.60              | -0.02             | -13.23            | -32.51            | 26.77             | 220  | 5.63              | -0.03             | -0.74             | 46.94             | -89.66            | 11.75             |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11    | S22   | S12   | M11    | M22    | M12    | Nodo | S11    | S22   | S12   | M11    | M22    | M12    |
|-------|------|--------|-------|-------|--------|--------|--------|------|--------|-------|-------|--------|--------|--------|
| Nro   | Nro  | N/cmq  | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq  | N.ro | N/cmq  | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq  |
| 158   | 227  | 4.06   | -1.02 | 1.75  | -20.06 | -16.77 | -24.47 | 228  | 4.14   | -0.64 | 0.72  | -53.87 | -31.87 | 0.63   |
|       | 224  | 15.30  | 1.22  | 0.67  | -58.82 | -33.38 | -39.05 | 225  | 15.38  | 1.61  | -0.37 | -74.11 | 5.31   | -13.95 |
| 159   | 228  | 1.93   | -1.08 | 3.22  | -51.81 | -31.46 | -7.07  | 229  | 2.08   | -0.33 | 1.07  | -40.42 | -12.64 | 10.73  |
|       | 225  | 13.78  | 1.29  | 1.29  | -77.23 | 4.69   | -4.55  | 226  | 13.93  | 2.04  | -0.85 | -52.53 | -12.67 | 13.25  |
| 160   | 229  | -2.63  | -1.12 | 4.82  | -32.40 | -11.04 | 23.01  | 230  | -2.90  | -2.46 | 1.30  | 60.82  | -16.56 | -5.17  |
|       | 226  | 12.09  | 1.82  | 2.67  | -73.01 | -16.77 | 18.11  | 5    | 11.82  | 0.48  | -0.85 | 188.65 | 70.95  | -10.07 |
| 161   | 4    | -4.07  | -1.91 | 0.73  | 28.96  | 3.18   | 7.11   | 231  | -3.98  | -1.48 | 0.14  | -14.22 | -31.59 | -7.96  |
|       | 220  | 5.76   | 0.06  | 0.65  | 46.95  | -89.66 | -11.71 | 227  | 5.85   | 0.49  | 0.06  | -13.07 | -32.42 | -26.78 |
| 162   | 231  | -3.93  | -1.51 | 2.13  | -16.95 | -32.13 | -11.27 | 232  | -3.76  | -0.67 | 1.83  | -25.99 | -26.27 | 1.83   |
|       | 227  | 4.43   | 0.17  | 1.71  | -23.61 | -34.53 | -21.52 | 228  | 4.59   | 1.00  | 1.40  | -52.39 | -24.48 | -8.42  |
| 163   | 232  | -3.79  | -0.75 | 4.05  | -25.73 | -26.22 | 1.32   | 233  | -3.69  | -0.28 | 3.85  | -29.13 | -16.32 | 16.06  |
|       | 228  | 2.46   | 0.50  | 3.91  | -50.33 | -24.06 | -3.45  | 229  | 2.55   | 0.97  | 3.70  | -42.31 | -22.10 | 11.28  |
| 164   | 233  | -1.41  | 0.15  | 4.73  | -26.00 | -15.70 | 20.24  | 6    | -2.50  | -5.29 | 6.54  | 41.61  | -1.61  | 14.33  |
|       | 229  | -1.98  | 0.03  | 7.46  | -34.29 | -20.50 | 9.29   | 230  | -3.07  | -5.40 | 9.27  | 69.08  | 24.72  | 3.37   |
| 165   | 235  | -8.57  | -1.52 | 0.98  | -4.13  | -3.32  | -9.60  | 236  | -8.57  | -1.53 | 1.14  | -10.39 | -2.77  | 2.49   |
|       | 231  | -3.59  | -0.53 | 2.62  | -16.08 | -27.77 | -11.24 | 232  | -3.60  | -0.54 | 2.77  | -25.77 | -25.15 | 0.85   |
| 166   | 236  | -6.40  | -0.91 | 2.36  | -9.14  | -2.52  | 2.66   | 237  | -6.61  | -1.95 | 3.20  | -13.66 | -3.02  | 19.26  |
|       | 232  | -3.72  | -0.38 | 5.00  | -25.50 | -25.10 | 1.32   | 233  | -3.93  | -1.41 | 5.84  | -30.11 | -21.23 | 17.92  |
| 167   | 237  | -3.09  | -0.51 | 4.02  | -12.35 | -2.75  | 24.08  | 238  | -3.88  | -4.46 | 4.14  | 17.26  | -6.66  | 15.82  |
|       | 233  | -1.81  | -0.26 | 6.72  | -26.98 | -20.60 | 21.03  | 6    | -2.60  | -4.21 | 6.83  | 45.03  | 15.46  | 12.76  |
| 168   | 7    | -15.61 | -1.53 | -0.60 | 4.98   | 33.51  | 0.93   | 239  | -15.69 | -1.96 | 0.01  | 8.94   | 46.22  | -4.13  |
|       | 234  | -9.15  | -0.24 | 0.37  | 7.28   | -9.34  | -4.13  | 235  | -9.24  | -0.67 | 0.98  | -4.46  | -4.00  | -9.19  |
| 169   | 239  | -14.52 | -1.65 | -0.47 | 6.34   | 45.70  | -4.45  | 240  | -14.67 | -2.41 | 0.06  | 13.21  | 58.41  | 3.65   |
|       | 235  | -8.31  | -0.41 | 2.01  | -4.26  | -3.96  | -8.09  | 236  | -8.47  | -1.17 | 2.54  | -10.31 | -2.38  | 0.01   |
| 170   | 240  | -10.50 | -1.42 | 0.17  | 7.83   | 57.33  | -0.41  | 241  | -10.70 | -2.43 | 0.66  | 12.31  | 46.12  | 13.82  |
|       | 236  | -6.29  | -0.58 | 3.76  | -9.06  | -2.13  | 3.97   | 237  | -6.49  | -1.59 | 4.25  | -14.68 | -8.13  | 18.20  |
| 171   | 241  | -3.67  | -0.01 | 1.79  | 1.52   | 43.96  | 13.95  | 8    | -4.23  | -2.82 | 0.26  | 1.88   | -10.37 | 7.14   |
|       | 237  | -3.03  | 0.12  | 5.07  | -13.37 | -7.87  | 24.86  | 238  | -3.59  | -2.69 | 3.53  | 20.80  | 11.07  | 18.05  |
| 172   | 243  | -6.59  | -1.99 | -3.40 | -14.05 | -3.18  | -19.53 | 244  | -6.37  | -0.89 | -2.87 | -9.13  | -2.54  | -2.70  |
|       | 221  | -3.90  | -1.45 | -5.85 | -30.62 | -21.53 | -18.21 | 222  | -3.68  | -0.35 | -5.32 | -25.80 | -25.34 | -1.38  |
| 173   | 244  | -8.57  | -1.53 | -1.46 | -10.60 | -2.83  | -2.51  | 245  | -8.55  | -1.48 | -1.45 | -4.06  | -3.29  | 9.71   |
|       | 222  | -3.64  | -0.55 | -2.88 | -26.05 | -25.39 | -0.91  | 223  | -3.63  | -0.49 | -2.86 | -16.19 | -27.88 | 11.31  |
| 174   | 245  | -9.51  | -1.64 | -0.32 | -4.42  | -3.36  | 12.27  | 234  | -9.48  | -1.50 | -0.64 | 7.09   | -10.63 | 2.24   |
|       | 223  | -3.63  | -0.46 | -0.72 | -13.42 | -27.33 | 13.14  | 4    | -3.60  | -0.33 | -1.04 | 25.67  | -13.31 | 3.11   |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 175   | 9    | -4.20             | -2.92             | -0.20             | 2.44              | -10.45            | -7.36             | 246  | -3.61             | 0.05              | -2.20             | 0.74              | 44.31             | -14.20            |
|       | 242  | -3.61             | -2.80             | -3.42             | 20.73             | 11.17             | -18.38            | 243  | -3.02             | 0.17              | -5.42             | -13.53            | -8.06             | -25.22            |
| 176   | 246  | -10.64            | -2.42             | -0.80             | 13.19             | 46.80             | -14.06            | 247  | -10.44            | -1.41             | -0.56             | 7.20              | 57.70             | 0.44              |
|       | 243  | -6.46             | -1.58             | -4.32             | -15.09            | -8.37             | -18.47            | 244  | -6.26             | -0.58             | -4.08             | -9.05             | -2.15             | -3.98             |
| 177   | 247  | -14.64            | -2.41             | -0.32             | 13.91             | 59.04             | -3.72             | 248  | -14.48            | -1.64             | 0.10              | 5.89              | 45.90             | 4.52              |
|       | 244  | -8.46             | -1.17             | -2.67             | -10.52            | -2.44             | -0.03             | 245  | -8.31             | -0.40             | -2.25             | -4.19             | -3.94             | 8.21              |
| 178   | 248  | -15.68            | -1.95             | -0.33             | 9.40              | 46.60             | 4.15              | 7    | -15.60            | -1.54             | 0.28              | 4.61              | 33.44             | -0.87             |
|       | 245  | -9.24             | -0.66             | -1.13             | -4.55             | -4.01             | 9.28              | 234  | -9.16             | -0.25             | -0.53             | 7.35              | -9.32             | 4.26              |
| 179   | 254  | 5.53              | 2.63              | 0.61              | 1.34              | 8.15              | -2.89             | 255  | 4.32              | -3.44             | -16.52            | 0.39              | -9.36             | 1.08              |
|       | 249  | 21.54             | 5.83              | 10.92             | -1.01             | -10.93            | -5.11             | 250  | 20.32             | -0.24             | -6.21             | -1.05             | 16.31             | -1.14             |
| 180   | 255  | 16.52             | 12.97             | -8.48             | 0.95              | -9.25             | -5.11             | 256  | 6.19              | -38.68            | -3.51             | -8.94             | -6.75             | -6.45             |
|       | 250  | 29.21             | 15.51             | 11.95             | -2.70             | 15.98             | 12.10             | 2    | 18.88             | -36.14            | 16.92             | -10.60            | -67.18            | 10.76             |
| 181   | 256  | 6.25              | -38.41            | 4.11              | -8.86             | -6.74             | 6.00              | 257  | 16.52             | 12.97             | 8.80              | 0.78              | -9.25             | 5.26              |
|       | 2    | 20.62             | -35.54            | -16.24            | -11.72            | -67.40            | -11.22            | 251  | 30.90             | 15.85             | -11.55            | -2.49             | 16.05             | -11.96            |
| 182   | 257  | 4.33              | -3.60             | 16.82             | 0.34              | -9.33             | -1.15             | 258  | 5.61              | 2.80              | 0.06              | 1.37              | 8.04              | 2.90              |
|       | 251  | 20.25             | -0.41             | 6.00              | -1.13             | 16.32             | 1.09              | 252  | 21.53             | 5.99              | -10.77            | -1.03             | -10.87            | 5.14              |
| 183   | 258  | 7.29              | -1.34             | 2.44              | 2.37              | 8.24              | 3.69              | 259  | 5.31              | -11.28            | -2.27             | -5.83             | -28.39            | 2.90              |
|       | 252  | -6.35             | -4.07             | 19.92             | -0.94             | -10.85            | 2.29              | 5    | -8.34             | -14.01            | 15.21             | 6.75              | 31.95             | 1.50              |
| 184   | 11   | -2.35             | -10.84            | -3.50             | -11.43            | -57.15            | 1.12              | 260  | 0.45              | 3.14              | -6.81             | 2.72              | 13.62             | 0.49              |
|       | 253  | 2.28              | -9.91             | -6.67             | 7.38              | 35.66             | -4.32             | 254  | 5.07              | 4.07              | -9.98             | -1.38             | -9.67             | -4.95             |
| 185   | 260  | 0.96              | -2.39             | -12.19            | 2.72              | 13.62             | -3.02             | 261  | 1.72              | 1.44              | -3.43             | -0.94             | -4.70             | -4.56             |
|       | 254  | 4.04              | -1.78             | -7.32             | -2.26             | -9.84             | -0.85             | 255  | 4.81              | 2.05              | 1.44              | 2.04              | -1.13             | -2.38             |
| 186   | 261  | 0.85              | 10.93             | -6.94             | -0.94             | -4.70             | -5.01             | 165  | -8.73             | -36.98            | -20.28            | 1.52              | 7.62              | -1.29             |
|       | 255  | 17.40             | 14.24             | 9.48              | 2.59              | -1.01             | -5.28             | 256  | 7.82              | -33.67            | -3.85             | -10.44            | -14.26            | -1.55             |
| 187   | 165  | -8.73             | -36.97            | 20.39             | 1.52              | 7.62              | 1.11              | 262  | 0.86              | 11.02             | 7.61              | -0.95             | -4.74             | 4.91              |
|       | 256  | 7.90              | -33.64            | 3.76              | -10.36            | -14.24            | 1.37              | 257  | 17.50             | 14.34             | -9.01             | 2.43              | -0.99             | 5.17              |
| 188   | 262  | 1.73              | 1.65              | 4.18              | -0.95             | -4.74             | 4.49              | 263  | 0.88              | -2.59             | 12.87             | 2.76              | 13.80             | 2.97              |
|       | 257  | 4.88              | 2.28              | -0.99             | 1.99              | -1.08             | 2.33              | 258  | 4.04              | -1.96             | 7.70              | -2.24             | -10.02            | 0.80              |
| 189   | 263  | 0.40              | 2.58              | 7.57              | 2.76              | 13.80             | -0.70             | 12   | -2.05             | -9.66             | 4.21              | -11.58            | -57.92            | -1.14             |
|       | 258  | 4.84              | 3.47              | 10.08             | -1.24             | -9.82             | 4.87              | 259  | 2.39              | -8.77             | 6.72              | 6.99              | 35.72             | 4.43              |
| 190   | 264  | -2.99             | -10.78            | 10.81             | 8.44              | 21.23             | -11.67            | 265  | -1.44             | -3.03             | 13.09             | 10.51             | 18.76             | -5.07             |
|       | 216  | -7.66             | -11.71            | 0.01              | 15.94             | 85.87             | 1.71              | 3    | -6.11             | -3.97             | 2.29              | 9.45              | 40.35             | 8.31              |
| 191   | 11   | 1.22              | -5.34             | 15.76             | -4.07             | -20.33            | -1.94             | 266  | 0.62              | -8.33             | 20.96             | -7.36             | -36.79            | 1.42              |
|       | 253  | 3.21              | -4.94             | -0.88             | -10.06            | 16.96             | 3.01              | 264  | 2.62              | -7.93             | 4.32              | 11.91             | 19.73             | 6.37              |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 192   | 266  | -0.05             | -6.04             | 10.85             | -7.36             | -36.79            | 10.73             | 13   | 1.69              | 2.65              | 12.75             | 7.24              | 36.18             | 4.04              |
|       | 264  | -0.33             | -6.09             | 3.68              | 7.98              | 18.94             | -6.78             | 265  | 1.41              | 2.59              | 5.58              | 8.90              | 10.71             | -13.47            |
| 193   | 268  | -3.37             | -4.01             | 0.79              | -1.18             | -7.66             | 1.75              | 269  | -3.32             | -3.77             | 3.91              | -2.53             | -8.51             | 0.27              |
|       | 241  | -10.30            | -5.39             | -1.67             | -3.29             | -24.35            | 6.41              | 240  | -10.25            | -5.16             | 1.45              | -7.57             | -40.30            | 4.93              |
| 194   | 269  | -6.01             | -4.40             | -0.14             | -3.06             | -8.61             | 3.00              | 270  | -5.65             | -2.59             | 2.47              | -1.33             | -10.70            | 0.97              |
|       | 240  | -13.96            | -5.99             | -2.46             | -5.78             | -39.94            | 1.48              | 239  | -13.59            | -4.18             | 0.15              | -5.72             | -32.39            | -0.55             |
| 195   | 270  | -7.20             | -3.09             | -0.28             | -1.90             | -10.82            | 1.55              | 271  | -6.90             | -1.59             | 1.05              | -0.55             | -10.71            | 0.78              |
|       | 239  | -14.61            | -4.57             | -1.40             | -4.95             | -32.23            | -0.65             | 7    | -14.31            | -3.08             | -0.07             | -3.18             | -24.32            | -1.42             |
| 196   | 14   | 4.57              | 3.78              | 5.89              | 3.23              | 16.13             | 3.34              | 65   | 2.74              | -5.37             | 16.23             | 2.56              | 12.81             | 1.47              |
|       | 267  | 4.95              | 3.85              | -6.20             | 0.20              | -15.23            | 0.69              | 268  | 3.12              | -5.29             | 4.14              | -0.72             | -3.34             | -1.18             |
| 197   | 65   | 0.52              | 1.04              | 2.09              | 2.56              | 12.81             | -0.54             | 64   | -0.11             | -2.14             | 4.18              | 2.67              | 13.34             | -0.27             |
|       | 268  | -2.21             | 0.49              | 2.74              | -0.30             | -3.26             | 1.24              | 269  | -2.85             | -2.68             | 4.83              | -2.88             | -10.27            | 1.52              |
| 198   | 64   | -0.39             | -1.34             | 0.58              | 2.67              | 13.34             | 0.44              | 63   | -0.22             | -0.50             | 1.77              | 2.07              | 10.36             | 0.75              |
|       | 269  | -5.84             | -2.43             | 0.78              | -3.41             | -10.38            | 1.45              | 270  | -5.68             | -1.59             | 1.97              | -1.29             | -10.48            | 1.76              |
| 199   | 63   | -0.15             | -0.70             | -0.59             | 2.07              | 10.36             | 0.92              | 15   | -0.02             | -0.04             | 1.24              | 1.66              | 8.32              | -0.16             |
|       | 270  | -7.22             | -2.11             | -0.78             | -1.85             | -10.59            | 1.43              | 271  | -7.09             | -1.46             | 1.05              | -0.43             | -10.07            | 0.35              |
| 200   | 272  | -5.61             | -2.63             | -2.40             | -1.06             | -10.82            | -1.04             | 273  | -5.97             | -4.44             | 0.43              | -3.45             | -8.92             | -3.06             |
|       | 248  | -13.59            | -4.23             | 0.06              | -7.46             | -32.95            | 0.54              | 247  | -13.95            | -6.04             | 2.89              | -4.22             | -39.97            | -1.49             |
| 201   | 273  | -3.23             | -3.83             | -3.96             | -2.37             | -8.70             | -0.34             | 274  | -3.29             | -4.08             | -0.59             | -1.61             | -8.06             | -1.82             |
|       | 247  | -10.26            | -5.24             | -1.19             | -9.14             | -40.96            | -5.03             | 246  | -10.31            | -5.49             | 2.18              | -1.98             | -24.26            | -6.51             |
| 202   | 274  | 0.09              | -4.08             | -2.09             | -1.61             | -8.06             | -0.48             | 275  | 1.68              | 3.86              | -4.16             | 4.74              | 8.14              | 2.28              |
|       | 246  | -4.70             | -5.04             | 0.19              | -5.30             | -24.92            | -9.28             | 9    | -3.11             | 2.90              | -1.89             | -3.28             | -9.89             | -6.52             |
| 203   | 15   | -0.02             | -0.04             | -1.02             | 1.66              | 8.32              | 0.00              | 44   | -0.16             | -0.74             | 0.89              | 2.05              | 10.24             | -1.09             |
|       | 271  | -7.08             | -1.46             | -0.88             | -0.13             | -10.01            | -0.44             | 272  | -7.22             | -2.15             | 1.03              | -2.16             | -10.77            | -1.53             |
| 204   | 44   | -0.23             | -0.52             | -1.61             | 2.05              | 10.24             | -0.93             | 43   | -0.40             | -1.39             | -0.21             | 2.67              | 13.34             | -0.61             |
|       | 272  | -5.65             | -1.61             | -1.88             | -1.01             | -10.54            | -1.86             | 273  | -5.82             | -2.48             | -0.48             | -3.86             | -10.99            | -1.53             |
| 205   | 43   | -0.08             | -2.33             | -4.24             | 2.67              | 13.34             | -0.01             | 42   | 0.65              | 1.29              | -1.63             | 2.05              | 10.27             | 0.35              |
|       | 273  | -2.75             | -2.87             | -4.87             | -2.78             | -10.78            | -1.46             | 274  | -2.02             | 0.76              | -2.27             | -0.50             | -2.51             | -1.10             |
| 206   | 42   | 3.11              | -5.85             | -17.66            | 2.05              | 10.27             | -0.63             | 16   | 5.12              | 4.17              | -6.18             | 4.80              | 23.99             | -2.44             |
|       | 274  | 3.61              | -5.75             | -3.76             | -0.50             | -2.51             | 0.35              | 275  | 5.61              | 4.27              | 7.72              | -0.69             | -19.02            | -1.46             |
| 207   | 276  | 0.57              | -2.78             | 4.06              | 0.76              | 7.27              | -1.49             | 275  | 2.04              | 4.55              | 4.27              | -9.23             | 16.42             | -6.68             |
|       | 242  | -1.85             | -3.26             | -0.39             | 5.28              | 22.27             | 9.80              | 9    | -0.38             | 4.07              | -0.18             | -2.44             | -13.90            | 4.61              |
| 208   | 13   | -0.31             | 5.86              | 0.11              | 7.24              | 36.18             | -16.28            | 277  | -2.06             | -2.87             | -1.25             | -4.94             | -24.69            | -18.33            |
|       | 265  | -0.44             | 5.83              | 0.38              | 11.98             | 11.33             | 4.66              | 276  | -2.19             | -2.90             | -0.98             | 0.74              | 23.95             | 2.62              |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11   | S22    | S12   | M11    | M22    | M12    | Nodo | S11   | S22   | S12   | M11    | M22    | M12    |
|-------|------|-------|--------|-------|--------|--------|--------|------|-------|-------|-------|--------|--------|--------|
| Nro   | Nro  | N/cmq | N/cmq  | N/cmq | N/cmq  | N/cmq  | N/cmq  | N.ro | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq  |
| 209   | 277  | -0.38 | -3.96  | 7.23  | -4.94  | -24.69 | -1.65  | 16   | 2.34  | 9.62  | 11.31 | 12.02  | 60.11  | 3.12   |
|       | 276  | -0.94 | -4.07  | -5.12 | 4.23   | 24.65  | -13.82 | 275  | 1.78  | 9.51  | -1.04 | -19.76 | -36.25 | -9.05  |
| 210   | 278  | -2.77 | -10.58 | 10.36 | -7.60  | -20.96 | 11.10  | 279  | -1.26 | -3.02 | 12.86 | -10.20 | -17.84 | 5.19   |
|       | 230  | -7.58 | -11.54 | -0.32 | -17.56 | -84.74 | -2.09  | 6    | -6.06 | -3.98 | 2.17  | -7.77  | -40.00 | -7.99  |
| 211   | 12   | 1.63  | -3.85  | 15.37 | 4.56   | 22.79  | 2.28   | 280  | 0.68  | -8.61 | 20.49 | 7.32   | 36.62  | -0.77  |
|       | 259  | 3.63  | -3.45  | -1.14 | 8.78   | -19.60 | -2.92  | 278  | 2.68  | -8.21 | 3.98  | -11.42 | -18.61 | -5.97  |
| 212   | 280  | -0.11 | -5.91  | 10.80 | 7.32   | 36.62  | -9.93  | 17   | 1.58  | 2.54  | 12.37 | -6.38  | -31.92 | -3.80  |
|       | 278  | -0.19 | -5.93  | 3.43  | -6.95  | -17.71 | 6.68   | 279  | 1.50  | 2.52  | 5.00  | -8.79  | -10.78 | 12.82  |
| 213   | 281  | 0.39  | -2.71  | 4.05  | -0.68  | -7.18  | 1.68   | 267  | 1.81  | 4.38  | 4.08  | 8.67   | -14.48 | 6.60   |
|       | 238  | -1.76 | -3.14  | -0.26 | -6.64  | -22.18 | -9.57  | 8    | -0.35 | 3.95  | -0.22 | 3.37   | 12.38  | -4.64  |
| 214   | 17   | -0.22 | 5.48   | -0.26 | -6.38  | -31.92 | 15.09  | 282  | -1.93 | -3.04 | -0.87 | 4.53   | 22.66  | 17.03  |
|       | 279  | -0.11 | 5.51   | -0.30 | -10.97 | -11.22 | -3.95  | 281  | -1.82 | -3.01 | -0.92 | -1.06  | -22.02 | -2.01  |
| 215   | 282  | 0.59  | -4.67  | 5.06  | 4.53   | 22.66  | 2.05   | 14   | 3.48  | 9.79  | 11.31 | -10.53 | -52.65 | -2.40  |
|       | 281  | -0.10 | -4.80  | -5.16 | -3.75  | -22.56 | 12.81  | 267  | 2.79  | 9.65  | 1.09  | 17.90  | 31.69  | 8.36   |
| 216   | 287  | 0.00  | 0.00   | 0.00  | -23.79 | -29.05 | 25.47  | 288  | 0.00  | 0.00  | 0.00  | -39.00 | -51.70 | 17.16  |
|       | 283  | 0.00  | 0.00   | 0.00  | 8.35   | 39.95  | 14.05  | 284  | 0.00  | 0.00  | 0.00  | 7.52   | 73.09  | 5.74   |
| 217   | 288  | 0.00  | 0.00   | 0.00  | -37.53 | -51.41 | 14.04  | 289  | 0.00  | 0.00  | 0.00  | -26.59 | -55.28 | 7.28   |
|       | 284  | 0.00  | 0.00   | 0.00  | 5.45   | 72.68  | 8.36   | 285  | 0.00  | 0.00  | 0.00  | 16.29  | 87.72  | 1.60   |
| 218   | 289  | 0.00  | 0.00   | 0.00  | -22.89 | -54.54 | 6.22   | 25   | 0.00  | 0.00  | 0.00  | -23.42 | -64.42 | 0.10   |
|       | 285  | 0.00  | 0.00   | 0.00  | 3.54   | 85.17  | 5.18   | 19   | 0.00  | 0.00  | 0.00  | 41.11  | 103.71 | -0.94  |
| 219   | 290  | 0.00  | 0.00   | 0.00  | 117.06 | 25.91  | -9.28  | 291  | 0.00  | 0.00  | 0.00  | -17.11 | -4.99  | -6.11  |
|       | 286  | 0.00  | 0.00   | 0.00  | 104.98 | 16.62  | 11.72  | 287  | 0.00  | 0.00  | 0.00  | -27.32 | -30.98 | 14.89  |
| 220   | 291  | 0.00  | 0.00   | 0.00  | -13.56 | -4.28  | -3.40  | 292  | 0.00  | 0.00  | 0.00  | -37.22 | -13.48 | -3.52  |
|       | 287  | 0.00  | 0.00   | 0.00  | -24.05 | -30.32 | 12.60  | 288  | 0.00  | 0.00  | 0.00  | -38.24 | -47.89 | 12.48  |
| 221   | 292  | 0.00  | 0.00   | 0.00  | -34.39 | -12.91 | -0.31  | 293  | 0.00  | 0.00  | 0.00  | -22.67 | -14.12 | -2.16  |
|       | 288  | 0.00  | 0.00   | 0.00  | -36.77 | -47.60 | 8.48   | 289  | 0.00  | 0.00  | 0.00  | -26.02 | -52.44 | 6.63   |
| 222   | 293  | 0.00  | 0.00   | 0.00  | -22.90 | -14.17 | 2.13   | 29   | 0.00  | 0.00  | 0.00  | -12.45 | -14.43 | 0.65   |
|       | 289  | 0.00  | 0.00   | 0.00  | -22.32 | -51.70 | 1.73   | 25   | 0.00  | 0.00  | 0.00  | -20.23 | -48.45 | 0.25   |
| 223   | 294  | 0.00  | 0.00   | 0.00  | 88.54  | 34.80  | -12.33 | 295  | 0.00  | 0.00  | 0.00  | -23.89 | -27.38 | -19.12 |
|       | 290  | 0.00  | 0.00   | 0.00  | 112.87 | 4.94   | 6.04   | 291  | 0.00  | 0.00  | 0.00  | -16.78 | -3.34  | -0.75  |
| 224   | 295  | 0.00  | 0.00   | 0.00  | -18.06 | -26.22 | -15.76 | 296  | 0.00  | 0.00  | 0.00  | -30.94 | -37.28 | -13.48 |
|       | 291  | 0.00  | 0.00   | 0.00  | -13.23 | -2.63  | -2.95  | 292  | 0.00  | 0.00  | 0.00  | -37.40 | -14.35 | -0.67  |
| 225   | 296  | 0.00  | 0.00   | 0.00  | -29.04 | -36.90 | -10.82 | 297  | 0.00  | 0.00  | 0.00  | -20.75 | -41.12 | -7.19  |
|       | 292  | 0.00  | 0.00   | 0.00  | -34.56 | -13.78 | -2.36  | 293  | 0.00  | 0.00  | 0.00  | -22.99 | -15.75 | 1.28   |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11   | S22    | S12    | M11    | M22    | M12    | Nodo | S11    | S22    | S12    | M11    | M22    | M12    |
|-------|------|-------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|
| Nro   | Nro  | N/cmq | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N.ro | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq  |
| 226   | 297  | 0.00  | 0.00   | 0.00   | -17.33 | -40.43 | -5.29  | 33   | 0.00   | 0.00   | 0.00   | -13.73 | -44.67 | -2.04  |
|       | 293  | 0.00  | 0.00   | 0.00   | -23.22 | -15.80 | -0.39  | 29   | 0.00   | 0.00   | 0.00   | -12.48 | -14.57 | 2.86   |
| 227   | 20   | 0.00  | 0.00   | 0.00   | 2.76   | 48.26  | -1.87  | 298  | 0.00   | 0.00   | 0.00   | 17.89  | 50.19  | -14.83 |
|       | 294  | 0.00  | 0.00   | 0.00   | 77.27  | -21.55 | -14.76 | 295  | 0.00   | 0.00   | 0.00   | -23.44 | -25.13 | -27.72 |
| 228   | 298  | 0.00  | 0.00   | 0.00   | 6.46   | 47.90  | -11.44 | 299  | 0.00   | 0.00   | 0.00   | 13.61  | 77.95  | -4.94  |
|       | 295  | 0.00  | 0.00   | 0.00   | -17.61 | -23.96 | -23.96 | 296  | 0.00   | 0.00   | 0.00   | -31.55 | -40.35 | -17.46 |
| 229   | 299  | 0.00  | 0.00   | 0.00   | 6.46   | 76.52  | -7.36  | 300  | 0.00   | 0.00   | 0.00   | 20.11  | 91.59  | -1.71  |
|       | 296  | 0.00  | 0.00   | 0.00   | -29.66 | -39.97 | -14.32 | 297  | 0.00   | 0.00   | 0.00   | -20.97 | -42.22 | -8.67  |
| 230   | 300  | 0.00  | 0.00   | 0.00   | 7.86   | 89.14  | -2.99  | 21   | 0.00   | 0.00   | 0.00   | 38.66  | 107.55 | 1.44   |
|       | 297  | 0.00  | 0.00   | 0.00   | -17.55 | -41.54 | -8.86  | 33   | 0.00   | 0.00   | 0.00   | -14.01 | -46.03 | -4.44  |
| 231   | 301  | 0.33  | -6.15  | 21.71  | 0.33   | 1.65   | -2.13  | 302  | -0.36  | -9.61  | 18.83  | 0.19   | 0.96   | -2.13  |
|       | 283  | 0.33  | -6.15  | 15.63  | -3.56  | -17.82 | 1.93   | 284  | -0.36  | -9.61  | 12.75  | -6.82  | -34.09 | 1.93   |
| 232   | 302  | -0.17 | -10.73 | 1.98   | 0.19   | 0.96   | -2.36  | 303  | 0.47   | -7.49  | -4.18  | -1.22  | -6.08  | -2.36  |
|       | 284  | -0.17 | -10.73 | 9.09   | -6.82  | -34.09 | 2.16   | 285  | 0.47   | -7.49  | 2.93   | -9.19  | -45.97 | 2.16   |
| 233   | 303  | -1.52 | 4.32   | -20.75 | -1.22  | -6.08  | 2.59   | 163  | -9.79  | -37.06 | -21.13 | 6.11   | 30.56  | 2.59   |
|       | 285  | -1.52 | 4.32   | -4.69  | -9.19  | -45.97 | -2.79  | 19   | -9.79  | -37.06 | -5.07  | -12.01 | -60.07 | -2.79  |
| 234   | 304  | 0.95  | -5.55  | 6.57   | -1.28  | -6.39  | 2.38   | 305  | -0.25  | -11.53 | 3.46   | 0.28   | 1.42   | 2.38   |
|       | 22   | 0.95  | -5.55  | -1.10  | -6.19  | -30.94 | -2.58  | 23   | -0.25  | -11.53 | -4.21  | -3.84  | -19.19 | -2.58  |
| 235   | 305  | -0.46 | -10.57 | -13.19 | 0.28   | 1.42   | 2.53   | 306  | 0.49   | -5.82  | -18.26 | 0.06   | 0.30   | 2.53   |
|       | 23   | -0.46 | -10.57 | -8.98  | -3.84  | -19.19 | -2.73  | 24   | 0.49   | -5.82  | -14.05 | 0.53   | 2.64   | -2.73  |
| 236   | 306  | -0.47 | -1.49  | -36.11 | 0.06   | 0.30   | -1.04  | 164  | -6.17  | -30.01 | -38.03 | -1.33  | -6.64  | -1.04  |
|       | 24   | -0.47 | -1.49  | -17.61 | 0.53   | 2.64   | 0.84   | 11   | -6.17  | -30.01 | -19.54 | 0.43   | 2.17   | 0.84   |
| 237   | 310  | 0.09  | -5.12  | -21.44 | 0.26   | 1.32   | -0.07  | 311  | 1.20   | 0.43   | -20.37 | 0.14   | 0.69   | -0.07  |
|       | 307  | 0.09  | -5.12  | -27.85 | -0.13  | -0.66  | -0.12  | 308  | 1.20   | 0.43   | -26.77 | 0.05   | 0.24   | -0.12  |
| 238   | 311  | 1.40  | -6.40  | -19.41 | 0.14   | 0.69   | -0.72  | 312  | 2.45   | -1.12  | -18.33 | -0.95  | -4.75  | -0.72  |
|       | 308  | 1.40  | -6.40  | -5.84  | 0.05   | 0.24   | 0.52   | 309  | 2.45   | -1.12  | -4.77  | -0.17  | -0.86  | 0.52   |
| 239   | 312  | 1.78  | 22.79  | -14.93 | -0.95  | -4.75  | 3.19   | 166  | -13.57 | -53.96 | -13.86 | 4.49   | 22.46  | 3.19   |
|       | 309  | 1.78  | 22.79  | 13.72  | -0.17  | -0.86  | -3.39  | 165  | -13.57 | -53.96 | 14.79  | 1.30   | 6.50   | -3.39  |
| 240   | 316  | 2.52  | -0.96  | 22.11  | -0.96  | -4.79  | 0.52   | 317  | 1.41   | -6.50  | 23.56  | 0.18   | 0.88   | 0.52   |
|       | 313  | 2.52  | -0.96  | 8.44   | -0.16  | -0.81  | -0.72  | 314  | 1.41   | -6.50  | 9.89   | 0.00   | 0.00   | -0.72  |
| 241   | 317  | 1.21  | 0.36   | 24.05  | 0.18   | 0.88   | -0.10  | 318  | 0.14   | -4.99  | 25.50  | 0.12   | 0.59   | -0.10  |
|       | 314  | 1.21  | 0.36   | 30.54  | 0.00   | -0.10  | -0.10  | 315  | 0.14   | -4.99  | 31.99  | 0.06   | 0.31   | -0.10  |
| 242   | 318  | -0.24 | 8.84   | 35.97  | 0.12   | 0.59   | -0.73  | 167  | -6.32  | -21.53 | 37.42  | -0.77  | -3.86  | -0.73  |
|       | 315  | -0.24 | 8.84   | 42.65  | 0.06   | 0.31   | 0.53   | 12   | -6.32  | -21.53 | 44.10  | -0.36  | -1.82  | 0.53   |



TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11   | S22    | S12    | M11   | M22    | M12   | Nodo | S11   | S22    | S12    | M11    | M22    | M12   |
|-------|------|-------|--------|--------|-------|--------|-------|------|-------|--------|--------|--------|--------|-------|
| Nro   | Nro  | N/cmq | N/cmq  | N/cmq  | N/cmq | N/cmq  | N/cmq | N.ro | N/cmq | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq |
| 243   | 319  | 0.25  | -6.88  | 24.16  | -0.06 | -0.30  | -2.56 | 320  | -0.34 | -9.85  | 19.61  | 0.39   | 1.94   | -2.56 |
|       | 82   | 0.25  | -6.88  | 18.12  | 0.69  | 3.43   | 2.36  | 83   | -0.34 | -9.85  | 13.57  | -4.19  | -20.94 | 2.36  |
| 244   | 320  | -0.23 | -10.81 | 0.58   | 0.39  | 1.94   | -1.91 | 321  | 0.63  | -6.54  | -2.99  | -1.50  | -7.48  | -1.91 |
|       | 83   | -0.23 | -10.81 | 8.97   | -4.19 | -20.94 | 1.71  | 84   | 0.63  | -6.54  | 5.41   | -5.56  | -27.82 | 1.71  |
| 245   | 321  | -0.78 | 5.63   | -22.00 | -1.50 | -7.48  | 1.28  | 168  | -9.65 | -38.69 | -20.13 | 6.66   | 33.28  | 1.28  |
|       | 84   | -0.78 | 5.63   | -2.69  | -5.56 | -27.82 | -1.48 | 85   | -9.65 | -38.69 | -0.82  | -11.23 | -56.14 | -1.48 |
| 246   | 322  | 0.43  | -7.57  | 16.03  | -1.53 | -7.64  | 1.03  | 323  | 0.13  | -9.07  | 13.24  | 0.61   | 3.05   | 1.03  |
|       | 102  | 0.43  | -7.57  | 6.71   | -8.75 | -43.77 | -1.23 | 103  | 0.13  | -9.07  | 3.93   | -8.75  | -43.76 | -1.23 |
| 247   | 323  | 0.09  | -8.66  | -6.03  | 0.61  | 3.05   | -1.06 | 324  | 0.28  | -7.73  | -9.51  | -1.45  | -7.25  | -1.06 |
|       | 103  | 0.09  | -8.66  | 2.03   | -8.75 | -43.76 | 0.86  | 104  | 0.28  | -7.73  | -1.45  | -8.51  | -42.57 | 0.86  |
| 248   | 324  | -0.87 | 6.33   | -25.15 | -1.45 | -7.25  | 3.28  | 169  | -9.33 | -35.99 | -24.51 | 6.36   | 31.81  | 3.28  |
|       | 104  | -0.87 | 6.33   | -9.44  | -8.51 | -42.57 | -3.48 | 105  | -9.33 | -35.99 | -8.80  | -9.90  | -49.51 | -3.48 |
| 249   | 325  | 0.90  | -5.85  | 11.81  | -1.39 | -6.96  | 0.80  | 326  | 0.14  | -9.68  | 9.72   | 0.55   | 2.73   | 0.80  |
|       | 122  | 0.90  | -5.85  | 3.55   | -8.56 | -42.78 | -1.00 | 123  | 0.14  | -9.68  | 1.46   | -8.91  | -44.57 | -1.00 |
| 250   | 326  | 0.11  | -9.50  | -8.70  | 0.55  | 2.73   | -1.13 | 327  | 0.80  | -6.07  | -11.08 | -1.35  | -6.74  | -1.13 |
|       | 123  | 0.11  | -9.50  | -0.73  | -8.91 | -44.57 | 0.93  | 124  | 0.80  | -6.07  | -3.11  | -8.82  | -44.12 | 0.93  |
| 251   | 327  | -0.70 | 5.02   | -29.40 | -1.35 | -6.74  | 3.30  | 170  | -9.23 | -37.63 | -27.58 | 6.15   | 30.73  | 3.30  |
|       | 124  | -0.70 | 5.02   | -9.53  | -8.82 | -44.12 | -3.50 | 125  | -9.23 | -37.63 | -7.72  | -10.36 | -51.81 | -3.50 |
| 252   | 328  | 0.25  | -7.55  | 7.12   | -1.28 | -6.38  | 1.68  | 329  | -0.26 | -10.09 | 1.54   | 0.25   | 1.25   | 1.68  |
|       | 142  | 0.25  | -7.55  | -0.50  | -9.03 | -45.13 | -1.88 | 143  | -0.26 | -10.09 | -6.08  | -7.26  | -36.32 | -1.88 |
| 253   | 329  | -0.38 | -8.85  | -15.66 | 0.25  | 1.25   | 1.46  | 330  | 0.04  | -6.73  | -18.94 | 0.17   | 0.83   | 1.46  |
|       | 143  | -0.38 | -8.85  | -9.72  | -7.26 | -36.32 | -1.66 | 144  | 0.04  | -6.73  | -13.00 | -4.29  | -21.45 | -1.66 |
| 254   | 330  | -0.47 | -1.45  | -38.85 | 0.17  | 0.83   | 6.46  | 171  | -3.35 | -15.84 | -22.38 | -0.06  | -0.30  | 6.46  |
|       | 144  | -0.47 | -1.45  | -23.76 | -4.29 | -21.45 | -6.66 | 145  | -3.35 | -15.84 | -7.28  | 8.06   | 40.32  | -6.66 |
| 255   | 331  | 0.18  | -4.43  | 0.24   | -0.63 | -3.13  | 1.70  | 332  | -0.49 | -7.77  | -2.43  | -0.19  | -0.96  | 1.70  |
|       | 298  | 0.18  | -4.43  | -2.18  | 6.87  | 34.34  | -1.90 | 299  | -0.49 | -7.77  | -4.84  | 9.45   | 47.25  | -1.90 |
| 256   | 332  | -0.18 | -9.60  | -14.58 | -0.19 | -0.96  | 2.04  | 333  | 0.68  | -5.28  | -17.14 | 1.54   | 7.68   | 2.04  |
|       | 299  | -0.18 | -9.60  | -7.09  | 9.45  | 47.25  | -2.24 | 300  | 0.68  | -5.28  | -9.64  | 11.31  | 56.55  | -2.24 |
| 257   | 333  | -0.89 | 4.09   | -33.28 | 1.54  | 7.68   | -4.19 | 173  | -8.59 | -34.42 | -30.41 | -7.78  | -38.88 | -4.19 |
|       | 300  | -0.89 | 4.09   | -15.44 | 11.31 | 56.55  | 3.99  | 21   | -8.59 | -34.42 | -12.57 | 13.77  | 68.85  | 3.99  |
| 258   | 334  | 0.76  | -5.14  | 2.21   | 1.64  | 8.22   | -1.05 | 335  | 0.00  | -8.97  | 0.21   | -0.72  | -3.59  | -1.05 |
|       | 37   | 0.76  | -5.14  | -3.61  | 11.82 | 59.09  | 0.85  | 38   | 0.00  | -8.97  | -5.61  | 12.69  | 63.46  | 0.85  |
| 259   | 335  | 0.26  | -10.17 | -15.39 | -0.72 | -3.59  | 0.73  | 336  | 1.57  | -3.62  | -15.75 | 1.91   | 9.57   | 0.73  |
|       | 38   | 0.26  | -10.17 | -7.76  | 12.69 | 63.46  | -0.93 | 39   | 1.57  | -3.62  | -8.12  | 11.37  | 56.85  | -0.93 |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 260   | 336  | 0.02              | 3.41              | -38.50            | 1.91              | 9.57              | -3.27             | 174  | -8.73             | -40.31            | -34.11            | -8.60             | -43.00            | -3.27             |
|       | 39   | 0.02              | 3.41              | -11.67            | 11.37             | 56.85             | 3.07              | 41   | -8.73             | -40.31            | -7.29             | 16.89             | 84.45             | 3.07              |
| 261   | 337  | -0.69             | -9.83             | 6.42              | 2.00              | 9.98              | -1.26             | 338  | 0.02              | -6.31             | 4.37              | -0.91             | -4.57             | -1.26             |
|       | 59   | -0.69             | -9.83             | -1.00             | 18.17             | 90.84             | 1.06              | 60   | 0.02              | -6.31             | -3.05             | 18.64             | 93.18             | 1.06              |
| 262   | 338  | 0.08              | -8.68             | -15.43            | -0.91             | -4.57             | 1.39              | 339  | 0.28              | -7.68             | -16.52            | 2.29              | 11.43             | 1.39              |
|       | 60   | 0.08              | -8.68             | -6.10             | 18.64             | 93.18             | -1.59             | 61   | 0.28              | -7.68             | -7.19             | 18.56             | 92.79             | -1.59             |
| 263   | 339  | -0.16             | 8.03              | -35.29            | 2.29              | 11.43             | -4.04             | 175  | -9.31             | -37.74            | -31.87            | -9.61             | -48.03            | -4.04             |
|       | 61   | -0.16             | 8.03              | -16.76            | 18.56             | 92.79             | 3.85              | 62   | -9.31             | -37.74            | -13.35            | 22.17             | 110.83            | 3.85              |
| 264   | 340  | 0.19              | -7.63             | 11.97             | 2.29              | 11.44             | -1.50             | 341  | -0.03             | -8.71             | 9.60              | -0.91             | -4.54             | -1.50             |
|       | 78   | 0.19              | -7.63             | 2.36              | 18.57             | 92.86             | 1.30              | 79   | -0.03             | -8.71             | -0.01             | 18.83             | 94.16             | 1.30              |
| 265   | 341  | -0.07             | -7.28             | -8.96             | -0.91             | -4.54             | 1.07              | 342  | -0.27             | -8.28             | -12.43            | 1.95              | 9.77              | 1.07              |
|       | 79   | -0.07             | -7.28             | -2.33             | 18.83             | 94.16             | -1.27             | 80   | -0.27             | -8.28             | -5.79             | 18.42             | 92.11             | -1.27             |
| 266   | 342  | -0.63             | 4.40              | -25.70            | 1.95              | 9.77              | -5.69             | 176  | -7.58             | -30.35            | -28.16            | -8.42             | -42.11            | -5.69             |
|       | 80   | -0.63             | 4.40              | -13.28            | 18.42             | 92.11             | 5.50              | 81   | -7.58             | -30.35            | -15.74            | 17.05             | 85.23             | 5.50              |
| 267   | 343  | -0.39             | -6.97             | 4.94              | 1.63              | 8.15              | -4.88             | 344  | -0.36             | -6.83             | 11.52             | -0.55             | -2.77             | -4.88             |
|       | 98   | -0.39             | -6.97             | -1.95             | 17.14             | 85.68             | 4.68              | 99   | -0.36             | -6.83             | 4.63              | 10.72             | 53.61             | 4.68              |
| 268   | 344  | 0.01              | -10.02            | -9.83             | -0.55             | -2.77             | 0.70              | 345  | 0.91              | -5.52             | -8.43             | 1.80              | 9.01              | 0.70              |
|       | 99   | 0.01              | -10.02            | -4.07             | 10.72             | 53.61             | -0.90             | 100  | 0.91              | -5.52             | -2.68             | 9.81              | 49.06             | -0.90             |
| 269   | 345  | -0.37             | 5.59              | -28.41            | 1.80              | 9.01              | -3.17             | 177  | -8.78             | -36.45            | -24.77            | -7.94             | -39.70            | -3.17             |
|       | 100  | -0.37             | 5.59              | -9.95             | 9.81              | 49.06             | 2.97              | 101  | -8.78             | -36.45            | -6.31             | 14.03             | 70.14             | 2.97              |
| 270   | 346  | 0.26              | -7.31             | 10.87             | 1.82              | 9.08              | -1.38             | 347  | 0.06              | -8.32             | 8.56              | -0.74             | -3.70             | -1.38             |
|       | 118  | 0.26              | -7.31             | 2.70              | 11.67             | 58.34             | 1.18              | 119  | 0.06              | -8.32             | 0.40              | 11.80             | 58.99             | 1.18              |
| 271   | 347  | 0.06              | -8.30             | -9.04             | -0.74             | -3.70             | 0.94              | 348  | 0.28              | -7.21             | -11.55            | 1.76              | 8.78              | 0.94              |
|       | 119  | 0.06              | -8.30             | -1.29             | 11.80             | 58.99             | -1.14             | 120  | 0.28              | -7.21             | -3.80             | 11.27             | 56.37             | -1.14             |
| 272   | 348  | -0.80             | 5.96              | -26.45            | 1.76              | 8.78              | -4.11             | 178  | -8.81             | -34.10            | -24.85            | -7.67             | -38.33            | -4.11             |
|       | 120  | -0.80             | 5.96              | -11.32            | 11.27             | 56.37             | 3.91              | 121  | -8.81             | -34.10            | -9.73             | 13.08             | 65.39             | 3.91              |
| 273   | 349  | 0.84              | -5.54             | 10.45             | 1.69              | 8.45              | -1.17             | 350  | 0.14              | -9.03             | 9.39              | -0.67             | -3.37             | -1.17             |
|       | 138  | 0.84              | -5.54             | 2.70              | 11.16             | 55.78             | 0.97              | 139  | 0.14              | -9.03             | 1.64              | 11.65             | 58.27             | 0.97              |
| 274   | 350  | 0.11              | -8.84             | -7.86             | -0.67             | -3.37             | 0.94              | 351  | 0.73              | -5.73             | -9.13             | 1.64              | 8.19              | 0.94              |
|       | 139  | 0.11              | -8.84             | -0.38             | 11.65             | 58.27             | -1.14             | 140  | 0.73              | -5.73             | -1.66             | 11.17             | 55.83             | -1.14             |
| 275   | 351  | -0.75             | 5.21              | -25.64            | 1.64              | 8.19              | -4.24             | 179  | -8.91             | -35.62            | -23.23            | -7.42             | -37.10            | -4.24             |
|       | 140  | -0.75             | 5.21              | -7.72             | 11.17             | 55.83             | 4.04              | 141  | -8.91             | -35.62            | -5.31             | 12.98             | 64.90             | 4.04              |
| 276   | 352  | 0.39              | -6.40             | 13.16             | 1.54              | 7.70              | -2.00             | 353  | -0.20             | -9.35             | 10.17             | -0.22             | -1.11             | -2.00             |
|       | 158  | 0.39              | -6.40             | 4.93              | 11.01             | 55.07             | 1.80              | 159  | -0.20             | -9.35             | 1.93              | 9.26              | 46.32             | 1.80              |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11   | S22    | S12    | M11    | M22    | M12   | Nodo | S11    | S22    | S12    | M11    | M22     | M12   |
|-------|------|-------|--------|--------|--------|--------|-------|------|--------|--------|--------|--------|---------|-------|
| Nro   | Nro  | N/cmq | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq | N.ro | N/cmq  | N/cmq  | N/cmq  | N/cmq  | N/cmq   | N/cmq |
| 277   | 353  | -0.34 | -7.90  | -4.71  | -0.22  | -1.11  | -1.54 | 354  | 0.18   | -5.32  | -7.04  | -0.51  | -2.53   | -1.54 |
|       | 159  | -0.34 | -7.90  | -0.66  | 9.26   | 46.32  | 1.34  | 160  | 0.18   | -5.32  | -2.99  | 6.88   | 34.42   | 1.34  |
| 278   | 354  | -0.26 | -0.78  | -21.05 | -0.51  | -2.53  | -6.95 | 180  | -3.68  | -17.84 | -13.73 | 1.41   | 7.07    | -6.95 |
|       | 160  | -0.26 | -0.78  | -7.50  | 6.88   | 34.42  | 6.75  | 161  | -3.68  | -17.84 | -0.18  | -7.71  | -38.56  | 6.75  |
| 279   | 355  | -3.19 | -16.07 | -5.81  | -2.01  | -10.05 | 1.02  | 356  | -0.57  | -2.97  | -10.84 | 0.78   | 3.91    | 1.02  |
|       | 286  | -3.19 | -16.07 | -7.60  | 15.24  | 76.21  | -1.22 | 290  | -0.57  | -2.97  | -12.64 | 16.21  | 81.04   | -1.22 |
| 280   | 356  | -0.76 | -4.64  | -29.72 | 0.79   | 3.93   | -2.14 | 357  | -2.44  | -13.07 | -29.78 | -1.48  | -7.39   | -2.14 |
|       | 290  | -0.76 | -4.64  | -27.24 | 16.20  | 81.01  | 1.94  | 294  | -2.44  | -13.07 | -27.29 | 11.62  | 58.12   | 1.94  |
| 281   | 357  | -0.14 | 7.32   | -44.21 | -1.48  | -7.41  | -2.42 | 172  | -5.37  | -18.82 | -27.72 | 5.21   | 26.06   | -2.42 |
|       | 294  | -0.14 | 7.32   | -51.62 | 11.63  | 58.15  | 2.22  | 20   | -5.37  | -18.82 | -35.13 | -2.84  | -14.20  | 2.22  |
| 282   | 358  | -3.05 | -15.54 | -0.57  | 1.80   | 9.02   | -1.23 | 359  | -0.54  | -3.03  | -5.06  | -0.76  | -3.79   | -1.23 |
|       | 149  | -3.05 | -15.54 | -2.26  | -14.16 | -70.78 | 1.03  | 153  | -0.54  | -3.03  | -6.75  | -15.39 | -76.97  | 1.03  |
| 283   | 359  | -0.69 | -4.34  | -23.21 | -0.76  | -3.79  | 1.64  | 360  | -2.53  | -13.51 | -24.23 | 1.57   | 7.87    | 1.64  |
|       | 153  | -0.69 | -4.34  | -20.32 | -15.39 | -76.97 | -1.84 | 157  | -2.53  | -13.51 | -21.34 | -11.89 | -59.46  | -1.84 |
| 284   | 360  | -0.10 | 8.02   | -37.35 | 1.57   | 7.87   | 2.28  | 180  | -5.76  | -20.29 | -23.58 | -5.61  | -28.07  | 2.28  |
|       | 157  | -0.10 | 8.02   | -44.94 | -11.89 | -59.46 | -2.48 | 161  | -5.76  | -20.29 | -31.17 | 3.27   | 16.37   | -2.48 |
| 285   | 361  | 0.94  | 3.64   | 42.00  | -3.93  | -19.66 | -4.27 | 181  | -1.82  | -10.15 | 49.15  | 14.65  | 73.26   | -4.27 |
|       | 266  | 0.94  | 3.64   | 33.49  | 0.03   | 0.13   | 4.07  | 13   | -1.82  | -10.15 | 40.65  | -27.74 | -138.68 | 4.07  |
| 286   | 362  | -3.03 | 14.88  | 41.87  | -5.07  | -25.34 | -5.20 | 182  | -12.57 | -32.81 | 27.13  | 4.77   | 23.85   | -5.20 |
|       | 277  | -3.03 | 14.88  | 36.57  | 4.62   | 23.12  | 5.00  | 16   | -12.57 | -32.81 | 21.82  | -11.85 | -59.24  | 5.00  |
| 287   | 363  | 1.01  | 3.67   | 43.63  | 4.45   | 22.24  | 3.23  | 183  | -1.76  | -10.18 | 50.62  | -14.64 | -73.19  | 3.23  |
|       | 280  | 1.01  | 3.67   | 35.35  | -0.01  | -0.03  | -3.43 | 17   | -1.76  | -10.18 | 42.34  | 26.41  | 132.05  | -3.43 |
| 288   | 364  | -4.10 | 16.65  | 45.20  | 4.65   | 23.23  | 4.23  | 184  | -14.45 | -35.09 | 30.36  | -3.34  | -16.72  | 4.23  |
|       | 282  | -4.10 | 16.65  | 36.72  | -4.08  | -20.41 | -4.43 | 14   | -14.45 | -35.09 | 21.88  | 9.53   | 47.67   | -4.43 |
| 289   | 365  | -1.37 | -6.12  | 12.12  | 0.86   | 4.29   | -0.15 | 366  | -0.20  | -0.27  | 13.85  | -0.19  | -0.97   | -0.15 |
|       | 42   | -1.37 | -6.12  | 8.42   | -8.56  | -42.78 | -0.05 | 43   | -0.20  | -0.27  | 10.15  | -7.61  | -38.04  | -0.05 |
| 290   | 366  | -0.15 | -1.98  | 8.01   | -0.19  | -0.97  | 0.36  | 367  | -0.29  | -2.69  | 7.24   | 0.05   | 0.23    | 0.36  |
|       | 43   | -0.15 | -1.98  | 6.12   | -7.61  | -38.04 | -0.56 | 44   | -0.29  | -2.69  | 5.35   | -6.89  | -34.46  | -0.56 |
| 291   | 367  | -0.31 | -1.88  | 3.16   | 0.05   | 0.23   | 0.13  | 185  | -0.39  | -2.26  | 1.42   | -0.04  | -0.19   | 0.13  |
|       | 44   | -0.31 | -1.88  | 2.86   | -6.89  | -34.46 | -0.33 | 15   | -0.39  | -2.26  | 1.12   | -6.33  | -31.63  | -0.33 |
| 292   | 368  | -0.30 | -2.66  | -6.98  | 0.03   | 0.17   | -0.58 | 369  | -0.16  | -1.95  | -8.07  | -0.14  | -0.68   | -0.58 |
|       | 63   | -0.30 | -2.66  | -5.35  | -6.94  | -34.71 | 0.38  | 64   | -0.16  | -1.95  | -6.44  | -7.77  | -38.87  | 0.38  |
| 293   | 369  | -0.20 | -0.60  | -13.50 | -0.14  | -0.68  | 0.05  | 370  | -1.19  | -5.55  | -12.27 | 0.64   | 3.22    | 0.05  |
|       | 64   | -0.20 | -0.60  | -10.04 | -7.77  | -38.87 | -0.25 | 65   | -1.19  | -5.55  | -8.81  | -8.23  | -41.17  | -0.25 |

TENS. PESO PROPRIO: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 294   | 370  | -1.50             | 5.30              | -13.59            | 0.64              | 3.22              | -2.26             | 184  | -3.57             | -5.07             | -3.11             | -2.95             | -14.75            | -2.26             |
|       | 65   | -1.50             | 5.30              | -22.95            | -8.23             | -41.17            | 2.07              | 14   | -3.57             | -5.07             | -12.47            | -9.19             | -45.93            | 2.07              |

CARATT. SOVRACCARICO PERMAN.: ASTE

| Tra | Filo | Alt.  | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|-------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)   | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 24  | 2.00 | 0.00  | 0.00    | 0.34    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 0.00 | 0.00    | 0.00    | -0.34   | 0.00    | 0.00    | 0.00    |
| 19  | 2.00 | 0.00  | 0.14    | 0.00    | -0.09   | 0.00    | 0.00    | 0.00    | 24   | 2.00 | 0.00    | 0.15    | 0.00    | 0.11    | 0.00    | 0.00    |
| 24  | 2.00 | 0.00  | 0.15    | 0.00    | -0.11   | 0.00    | 0.00    | 0.00    | 21   | 2.00 | 0.00    | 0.14    | 0.00    | 0.09    | 0.00    | 0.00    |
| 1   | 5.00 | 0.01  | -0.08   | 0.63    | 0.13    | 0.00    | 0.00    | 0.00    | 1    | 2.00 | -0.01   | 0.08    | -0.63   | 0.06    | 0.02    | 0.00    |
| 2   | 5.00 | 0.01  | -0.17   | 1.12    | 0.31    | 0.02    | 0.00    | 0.00    | 2    | 2.00 | -0.01   | 0.17    | -1.12   | 0.15    | 0.01    | 0.00    |
| 3   | 5.00 | 0.01  | -0.21   | 1.31    | 0.36    | 0.02    | 0.00    | 0.00    | 3    | 2.00 | -0.01   | 0.21    | -1.31   | 0.19    | 0.01    | 0.00    |
| 4   | 5.00 | 0.00  | -0.22   | 1.39    | 0.40    | 0.00    | 0.00    | 0.00    | 4    | 2.00 | 0.00    | 0.22    | -1.39   | 0.19    | 0.00    | 0.00    |
| 5   | 5.00 | -0.01 | -0.22   | 1.40    | 0.38    | -0.02   | 0.00    | 0.00    | 5    | 2.00 | 0.01    | 0.22    | -1.40   | 0.20    | -0.01   | 0.00    |
| 6   | 5.00 | -0.01 | -0.21   | 1.33    | 0.37    | -0.01   | 0.00    | 0.00    | 6    | 2.00 | 0.01    | 0.21    | -1.33   | 0.18    | -0.01   | 0.00    |
| 7   | 5.00 | 0.00  | -0.21   | 1.31    | 0.36    | -0.01   | 0.00    | 0.00    | 7    | 2.00 | 0.00    | 0.21    | -1.31   | 0.17    | 0.00    | 0.00    |
| 8   | 5.00 | -0.01 | -0.19   | 1.23    | 0.34    | -0.01   | 0.00    | 0.00    | 8    | 2.00 | 0.01    | 0.19    | -1.23   | 0.16    | -0.01   | 0.00    |
| 9   | 5.00 | -0.01 | -0.08   | 0.67    | 0.14    | -0.01   | 0.00    | 0.00    | 9    | 2.00 | 0.01    | 0.08    | -0.67   | 0.07    | -0.02   | 0.00    |
| 10  | 5.00 | 0.01  | 0.08    | 0.66    | -0.13   | 0.02    | 0.00    | 0.00    | 10   | 2.00 | -0.01   | -0.08   | -0.66   | -0.08   | 0.02    | 0.00    |
| 11  | 5.00 | 0.02  | 0.17    | 1.06    | -0.30   | 0.03    | 0.00    | 0.00    | 11   | 2.00 | -0.02   | -0.17   | -1.06   | -0.15   | 0.02    | 0.00    |
| 12  | 5.00 | 0.01  | 0.21    | 1.28    | -0.35   | 0.01    | 0.00    | 0.00    | 12   | 2.00 | -0.01   | -0.21   | -1.28   | -0.18   | 0.01    | 0.00    |
| 13  | 5.00 | 0.00  | 0.24    | 1.53    | -0.41   | 0.00    | 0.00    | 0.00    | 13   | 2.00 | 0.00    | -0.24   | -1.53   | -0.22   | 0.00    | 0.00    |
| 14  | 5.00 | 0.00  | 0.22    | 1.36    | -0.37   | 0.00    | 0.00    | 0.00    | 14   | 2.00 | 0.00    | -0.22   | -1.36   | -0.19   | 0.00    | 0.00    |
| 15  | 5.00 | 0.00  | 0.20    | 1.27    | -0.35   | 0.00    | 0.00    | 0.00    | 15   | 2.00 | 0.00    | -0.20   | -1.27   | -0.18   | 0.00    | 0.00    |
| 16  | 5.00 | 0.00  | 0.20    | 1.26    | -0.35   | 0.00    | 0.00    | 0.00    | 16   | 2.00 | 0.00    | -0.20   | -1.26   | -0.18   | 0.00    | 0.00    |
| 17  | 5.00 | -0.01 | 0.19    | 1.20    | -0.33   | -0.02   | 0.00    | 0.00    | 17   | 2.00 | 0.01    | -0.19   | -1.20   | -0.17   | -0.01   | 0.00    |
| 18  | 5.00 | -0.01 | 0.09    | 0.74    | -0.14   | -0.01   | 0.00    | 0.00    | 18   | 2.00 | 0.01    | -0.09   | -0.74   | -0.08   | -0.02   | 0.00    |
| 1   | 5.00 | -0.01 | 0.25    | 0.97    | -0.07   | -0.01   | 0.00    | 0.00    | 25   | 6.00 | 0.01    | 0.28    | -0.80   | 0.12    | -0.02   | 0.00    |
| 9   | 5.00 | 0.01  | 0.27    | 1.00    | -0.08   | 0.01    | 0.00    | 0.00    | 33   | 6.00 | -0.01   | 0.30    | -0.80   | 0.13    | 0.02    | 0.00    |
| 10  | 5.00 | 0.01  | 0.24    | 1.06    | -0.06   | 0.01    | 0.00    | 0.00    | 25   | 6.00 | -0.01   | 0.28    | -0.88   | 0.12    | 0.02    | 0.00    |
| 18  | 5.00 | -0.01 | 0.27    | 1.23    | -0.06   | -0.01   | 0.00    | 0.00    | 33   | 6.00 | 0.01    | 0.31    | -1.04   | 0.13    | -0.02   | 0.00    |
| 2   | 5.00 | -0.01 | 0.45    | 1.77    | -0.21   | -0.02   | 0.00    | 0.00    | 26   | 6.00 | 0.01    | 0.47    | -1.45   | 0.24    | -0.03   | 0.00    |
| 6   | 5.00 | 0.00  | 0.53    | 2.11    | -0.24   | 0.01    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.56    | -1.74   | 0.28    | 0.01    | 0.00    |



**CARATT. SOVRACCARICO PERMAN.: ASTE**

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 31  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 32  | 6.00 | 0.00 | -0.01   | 0.00    | 0.00    | 0.02    | 0.00    | 0.00    | 33   | 6.00 | 0.00    | 0.01    | 0.00    | 0.02    | 0.00    | 0.00    |

**TENS. SOVRACCARICO PERMAN.: SHELL**

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 1     | 216  | -0.33             | -0.32             | -0.25             | 6.89              | -2.25             | 0.56              | 217  | -0.30             | -0.15             | -0.68             | -3.67             | -1.16             | -3.00             |
|       | 1    | 1.60              | 0.07              | 0.11              | 23.14             | 8.92              | 1.16              | 213  | 1.64              | 0.24              | -0.32             | -8.94             | -2.09             | -2.39             |
| 2     | 220  | 0.73              | -0.34             | 0.08              | 5.37              | -14.32            | -3.79             | 227  | 0.77              | -0.10             | 0.01              | -1.03             | -1.62             | -7.71             |
|       | 2    | 2.15              | -0.05             | -0.07             | 32.35             | 26.90             | 0.17              | 224  | 2.19              | 0.19              | -0.13             | -10.55            | -4.72             | -3.75             |
| 3     | 234  | -1.23             | -0.16             | 0.05              | 1.41              | -1.23             | -0.55             | 235  | -1.24             | -0.19             | 0.01              | -0.61             | 0.03              | -2.04             |
|       | 4    | -0.44             | 0.00              | 0.13              | 5.02              | 1.46              | -0.33             | 231  | -0.45             | -0.03             | 0.09              | -1.96             | -2.44             | -1.82             |
| 4     | 242  | -0.48             | -0.59             | -0.53             | 1.78              | -1.02             | -1.64             | 243  | -0.38             | -0.07             | -0.59             | -1.25             | 0.03              | -2.60             |
|       | 3    | -0.31             | -0.56             | -0.88             | 5.07              | 1.91              | -1.45             | 221  | -0.21             | -0.03             | -0.94             | -2.95             | -2.09             | -2.41             |
| 5     | 253  | 0.50              | -1.73             | 0.37              | -0.84             | -3.95             | -0.40             | 254  | 0.83              | -0.06             | -0.05             | 0.31              | 1.13              | -0.45             |
|       | 1    | -1.29             | -2.09             | -1.87             | 0.79              | 4.26              | -0.26             | 249  | -0.96             | -0.42             | -2.29             | -0.11             | -1.39             | -0.31             |
| 6     | 253  | 0.04              | -0.14             | 0.77              | -2.19             | -3.43             | 0.31              | 264  | -0.13             | -1.00             | 1.68              | 1.39              | 2.30              | 0.15              |
|       | 1    | -0.52             | -0.25             | 0.78              | 2.70              | 6.63              | -2.11             | 216  | -0.70             | -1.12             | 1.69              | 0.25              | 9.67              | -2.28             |
| 7     | 267  | 0.13              | 0.34              | 0.46              | 0.37              | 0.99              | -0.25             | 268  | -0.03             | -0.46             | 0.36              | 0.04              | -0.57             | 0.04              |
|       | 8    | -0.41             | 0.23              | 0.15              | -0.47             | -1.19             | 0.63              | 241  | -0.56             | -0.56             | 0.05              | -0.48             | -2.66             | 0.92              |
| 8     | 271  | -0.88             | -0.05             | -0.09             | 0.16              | -0.56             | -0.15             | 272  | -0.93             | -0.31             | 0.03              | -0.10             | -0.62             | -0.23             |
|       | 7    | -1.83             | -0.24             | 0.09              | -0.21             | -1.43             | 0.24              | 248  | -1.88             | -0.50             | 0.20              | -0.19             | -2.72             | 0.16              |
| 9     | 265  | -0.15             | -0.52             | 0.98              | 1.28              | 2.10              | -0.48             | 276  | -0.12             | -0.37             | 0.92              | -0.21             | 0.70              | -0.32             |
|       | 3    | -0.55             | -0.60             | -0.09             | 0.86              | 4.36              | 0.96              | 242  | -0.52             | -0.45             | -0.16             | 0.59              | 2.41              | 1.11              |
| 10    | 259  | 0.06              | -0.12             | 0.80              | 2.19              | 3.57              | -0.31             | 278  | -0.12             | -1.01             | 1.69              | -1.39             | -2.32             | -0.17             |
|       | 5    | -0.53             | -0.23             | 0.79              | -2.83             | -6.79             | 2.13              | 230  | -0.71             | -1.13             | 1.68              | -0.15             | -9.65             | 2.27              |
| 11    | 279  | -0.11             | -0.53             | 0.99              | -1.23             | -2.06             | 0.49              | 281  | -0.08             | -0.37             | 0.97              | 0.16              | -0.71             | 0.34              |
|       | 6    | -0.55             | -0.62             | -0.11             | -0.92             | -4.42             | -0.96             | 238  | -0.52             | -0.45             | -0.13             | -0.54             | -2.40             | -1.11             |
| 12    | 286  | 0.00              | 0.00              | 0.00              | 8.18              | -0.79             | 0.92              | 287  | 0.00              | 0.00              | 0.00              | -2.47             | -3.07             | 2.14              |
|       | 18   | 0.00              | 0.00              | 0.00              | 2.81              | 3.64              | 0.43              | 283  | 0.00              | 0.00              | 0.00              | -0.75             | 3.67              | 1.65              |
| 13    | 25   | 0.00              | 0.00              | 0.00              | 0.44              | -0.52             | -0.19             | 26   | 0.00              | 0.00              | 0.00              | -0.72             | -0.95             | -0.54             |
|       | 19   | 0.00              | 0.00              | 0.00              | 1.16              | 4.46              | -0.24             | 22   | 0.00              | 0.00              | 0.00              | 0.00              | 4.03              | -0.59             |
| 14    | 26   | 0.00              | 0.00              | 0.00              | -0.76             | -0.75             | -0.53             | 27   | 0.00              | 0.00              | 0.00              | -1.43             | -1.03             | -0.78             |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 22   | 0.00              | 0.00              | 0.00              | -0.45             | 3.35              | -0.57             | 23   | 0.00              | 0.00              | 0.00              | -1.12             | 3.07              | -0.82             |
| 15    | 27   | 0.00              | 0.00              | 0.00              | -0.95             | -0.68             | -0.81             | 28   | 0.00              | 0.00              | 0.00              | -0.99             | -0.81             | -1.02             |
|       | 23   | 0.00              | 0.00              | 0.00              | -0.80             | 2.59              | -0.83             | 24   | 0.00              | 0.00              | 0.00              | -0.84             | 2.46              | -1.04             |
| 16    | 28   | 0.00              | 0.00              | 0.00              | 2.18              | 0.08              | -1.02             | 13   | 0.00              | 0.00              | 0.00              | 3.35              | 0.04              | -0.81             |
|       | 24   | 0.00              | 0.00              | 0.00              | 0.54              | 2.07              | -0.71             | 11   | 0.00              | 0.00              | 0.00              | 1.71              | 2.03              | -0.49             |
| 17    | 29   | 0.00              | 0.00              | 0.00              | -1.64             | -2.74             | 0.12              | 30   | 0.00              | 0.00              | 0.00              | -1.52             | -2.63             | 0.15              |
|       | 25   | 0.00              | 0.00              | 0.00              | -1.63             | -3.84             | 0.10              | 26   | 0.00              | 0.00              | 0.00              | -1.51             | -3.73             | 0.13              |
| 18    | 30   | 0.00              | 0.00              | 0.00              | -2.14             | -2.58             | 0.27              | 31   | 0.00              | 0.00              | 0.00              | -1.82             | -2.27             | 0.38              |
|       | 26   | 0.00              | 0.00              | 0.00              | -2.41             | -3.72             | 0.04              | 27   | 0.00              | 0.00              | 0.00              | -2.10             | -3.41             | 0.15              |
| 19    | 31   | 0.00              | 0.00              | 0.00              | -2.25             | -2.11             | 0.60              | 32   | 0.00              | 0.00              | 0.00              | -1.03             | -1.43             | 0.75              |
|       | 27   | 0.00              | 0.00              | 0.00              | -2.63             | -3.00             | 0.16              | 28   | 0.00              | 0.00              | 0.00              | -1.41             | -2.32             | 0.31              |
| 20    | 32   | 0.00              | 0.00              | 0.00              | 0.57              | -1.27             | 1.00              | 16   | 0.00              | 0.00              | 0.00              | 4.32              | -0.03             | 1.02              |
|       | 28   | 0.00              | 0.00              | 0.00              | 0.65              | -0.70             | 0.47              | 13   | 0.00              | 0.00              | 0.00              | 4.39              | 0.53              | 0.49              |
| 21    | 33   | 0.00              | 0.00              | 0.00              | -0.78             | -3.31             | 0.03              | 34   | 0.00              | 0.00              | 0.00              | -0.98             | -3.40             | 0.13              |
|       | 29   | 0.00              | 0.00              | 0.00              | -1.24             | -2.61             | 0.07              | 30   | 0.00              | 0.00              | 0.00              | -1.44             | -2.69             | 0.17              |
| 22    | 34   | 0.00              | 0.00              | 0.00              | -1.01             | -3.48             | 0.39              | 35   | 0.00              | 0.00              | 0.00              | -1.34             | -3.59             | 0.51              |
|       | 30   | 0.00              | 0.00              | 0.00              | -1.51             | -2.74             | 0.42              | 31   | 0.00              | 0.00              | 0.00              | -1.84             | -2.85             | 0.54              |
| 23    | 35   | 0.00              | 0.00              | 0.00              | -0.87             | -3.73             | 0.79              | 36   | 0.00              | 0.00              | 0.00              | -1.09             | -3.90             | 0.90              |
|       | 31   | 0.00              | 0.00              | 0.00              | -1.35             | -2.72             | 0.92              | 32   | 0.00              | 0.00              | 0.00              | -1.56             | -2.89             | 1.03              |
| 24    | 36   | 0.00              | 0.00              | 0.00              | -0.07             | -4.26             | 1.05              | 40   | 0.00              | 0.00              | 0.00              | 0.59              | -4.24             | 0.65              |
|       | 32   | 0.00              | 0.00              | 0.00              | 1.16              | -2.06             | 1.16              | 16   | 0.00              | 0.00              | 0.00              | 1.82              | -2.04             | 0.76              |
| 25    | 21   | 0.00              | 0.00              | 0.00              | 4.42              | 12.13             | -0.45             | 37   | 0.00              | 0.00              | 0.00              | 1.11              | 9.77              | -0.18             |
|       | 33   | 0.00              | 0.00              | 0.00              | -1.26             | -4.84             | 0.28              | 34   | 0.00              | 0.00              | 0.00              | -0.69             | -3.85             | 0.54              |
| 26    | 37   | 0.00              | 0.00              | 0.00              | 1.82              | 9.92              | -0.06             | 38   | 0.00              | 0.00              | 0.00              | 1.00              | 9.86              | -0.15             |
|       | 34   | 0.00              | 0.00              | 0.00              | -1.35             | -3.98             | 0.29              | 35   | 0.00              | 0.00              | 0.00              | -1.03             | -4.43             | 0.21              |
| 27    | 38   | 0.00              | 0.00              | 0.00              | 0.85              | 9.83              | -0.28             | 39   | 0.00              | 0.00              | 0.00              | 2.10              | 10.86             | -0.47             |
|       | 35   | 0.00              | 0.00              | 0.00              | -1.75             | -4.57             | 0.28              | 36   | 0.00              | 0.00              | 0.00              | -0.55             | -5.75             | 0.10              |
| 28    | 39   | 0.00              | 0.00              | 0.00              | 1.02              | 10.64             | -0.36             | 41   | 0.00              | 0.00              | 0.00              | 5.05              | 13.74             | -0.26             |
|       | 36   | 0.00              | 0.00              | 0.00              | -0.85             | -5.81             | -0.26             | 40   | 0.00              | 0.00              | 0.00              | -1.27             | -8.30             | -0.16             |
| 29    | 45   | 0.00              | 0.00              | 0.00              | -0.80             | -4.62             | 0.05              | 46   | 0.00              | 0.00              | 0.00              | -0.36             | -3.86             | -0.42             |
|       | 16   | 0.00              | 0.00              | 0.00              | 5.07              | 1.65              | 0.10              | 42   | 0.00              | 0.00              | 0.00              | -3.54             | -0.92             | -0.37             |
| 30    | 46   | 0.00              | 0.00              | 0.00              | -1.29             | -4.05             | 0.09              | 47   | 0.00              | 0.00              | 0.00              | -0.82             | -3.95             | -0.23             |
|       | 42   | 0.00              | 0.00              | 0.00              | 1.39              | 0.06              | 0.08              | 43   | 0.00              | 0.00              | 0.00              | -1.40             | -0.47             | -0.24             |
| 31    | 47   | 0.00              | 0.00              | 0.00              | -1.19             | -4.03             | -0.14             | 48   | 0.00              | 0.00              | 0.00              | -0.85             | -4.08             | -0.27             |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 43   | 0.00              | 0.00              | 0.00              | 0.48              | -0.09             | -0.04             | 44   | 0.00              | 0.00              | 0.00              | -0.79             | -0.55             | -0.17             |
| 32    | 48   | 0.00              | 0.00              | 0.00              | -0.88             | -4.08             | -0.15             | 49   | 0.00              | 0.00              | 0.00              | -0.84             | -4.25             | -0.08             |
|       | 44   | 0.00              | 0.00              | 0.00              | 0.00              | -0.40             | -0.09             | 15   | 0.00              | 0.00              | 0.00              | -0.35             | -0.48             | -0.02             |
| 33    | 40   | 0.00              | 0.00              | 0.00              | -0.20             | -4.92             | 0.00              | 50   | 0.00              | 0.00              | 0.00              | -0.44             | -4.56             | 0.17              |
|       | 45   | 0.00              | 0.00              | 0.00              | -0.35             | -4.71             | -0.14             | 46   | 0.00              | 0.00              | 0.00              | -0.59             | -4.35             | 0.03              |
| 34    | 50   | 0.00              | 0.00              | 0.00              | -1.14             | -4.52             | -0.07             | 51   | 0.00              | 0.00              | 0.00              | -1.12             | -4.53             | -0.09             |
|       | 46   | 0.00              | 0.00              | 0.00              | -1.06             | -4.24             | -0.06             | 47   | 0.00              | 0.00              | 0.00              | -1.04             | -4.25             | -0.08             |
| 35    | 51   | 0.00              | 0.00              | 0.00              | -1.12             | -4.60             | -0.23             | 52   | 0.00              | 0.00              | 0.00              | -1.06             | -4.67             | -0.25             |
|       | 47   | 0.00              | 0.00              | 0.00              | -1.04             | -4.27             | -0.20             | 48   | 0.00              | 0.00              | 0.00              | -0.98             | -4.34             | -0.21             |
| 36    | 52   | 0.00              | 0.00              | 0.00              | -0.70             | -4.64             | -0.26             | 53   | 0.00              | 0.00              | 0.00              | -0.59             | -4.75             | -0.14             |
|       | 48   | 0.00              | 0.00              | 0.00              | -0.83             | -4.46             | -0.21             | 49   | 0.00              | 0.00              | 0.00              | -0.71             | -4.57             | -0.09             |
| 37    | 54   | 0.00              | 0.00              | 0.00              | -0.42             | -2.05             | 0.45              | 55   | 0.00              | 0.00              | 0.00              | -0.76             | -2.23             | 0.06              |
|       | 40   | 0.00              | 0.00              | 0.00              | -0.03             | -3.03             | 0.52              | 50   | 0.00              | 0.00              | 0.00              | -0.37             | -3.21             | 0.13              |
| 38    | 55   | 0.00              | 0.00              | 0.00              | -0.97             | -2.21             | -0.01             | 56   | 0.00              | 0.00              | 0.00              | -0.97             | -2.21             | -0.15             |
|       | 50   | 0.00              | 0.00              | 0.00              | -1.03             | -3.54             | -0.01             | 51   | 0.00              | 0.00              | 0.00              | -1.03             | -3.54             | -0.15             |
| 39    | 56   | 0.00              | 0.00              | 0.00              | -0.89             | -2.20             | -0.27             | 57   | 0.00              | 0.00              | 0.00              | -0.81             | -2.20             | -0.39             |
|       | 51   | 0.00              | 0.00              | 0.00              | -1.00             | -3.54             | -0.26             | 52   | 0.00              | 0.00              | 0.00              | -0.91             | -3.54             | -0.38             |
| 40    | 57   | 0.00              | 0.00              | 0.00              | -0.12             | -2.17             | -0.49             | 58   | 0.00              | 0.00              | 0.00              | 0.13              | -2.42             | -0.45             |
|       | 52   | 0.00              | 0.00              | 0.00              | -0.46             | -3.66             | -0.37             | 53   | 0.00              | 0.00              | 0.00              | -0.21             | -3.91             | -0.33             |
| 41    | 41   | 0.00              | 0.00              | 0.00              | 7.77              | 17.80             | -1.32             | 59   | 0.00              | 0.00              | 0.00              | -0.19             | 12.79             | 0.02              |
|       | 54   | 0.00              | 0.00              | 0.00              | -1.59             | -1.30             | -0.34             | 55   | 0.00              | 0.00              | 0.00              | 0.22              | -0.63             | 1.00              |
| 42    | 59   | 0.00              | 0.00              | 0.00              | 2.75              | 13.38             | -0.04             | 60   | 0.00              | 0.00              | 0.00              | 1.80              | 14.17             | 0.15              |
|       | 55   | 0.00              | 0.00              | 0.00              | -0.94             | -0.86             | -0.27             | 56   | 0.00              | 0.00              | 0.00              | -0.76             | -1.08             | -0.08             |
| 43    | 60   | 0.00              | 0.00              | 0.00              | 1.49              | 14.11             | -0.14             | 61   | 0.00              | 0.00              | 0.00              | 3.02              | 14.12             | -0.20             |
|       | 56   | 0.00              | 0.00              | 0.00              | -0.84             | -1.10             | -0.26             | 57   | 0.00              | 0.00              | 0.00              | -0.48             | -0.36             | -0.32             |
| 44    | 61   | 0.00              | 0.00              | 0.00              | 0.08              | 13.53             | 0.00              | 62   | 0.00              | 0.00              | 0.00              | 8.19              | 20.74             | 0.24              |
|       | 57   | 0.00              | 0.00              | 0.00              | -0.41             | -0.34             | -1.19             | 58   | 0.00              | 0.00              | 0.00              | 0.95              | -1.90             | -0.95             |
| 45    | 49   | 0.00              | 0.00              | 0.00              | -0.71             | -4.22             | 0.06              | 66   | 0.00              | 0.00              | 0.00              | -1.03             | -4.21             | 0.13              |
|       | 15   | 0.00              | 0.00              | 0.00              | -0.33             | -0.48             | 0.02              | 63   | 0.00              | 0.00              | 0.00              | -0.01             | -0.34             | 0.08              |
| 46    | 66   | 0.00              | 0.00              | 0.00              | -0.85             | -4.18             | 0.22              | 67   | 0.00              | 0.00              | 0.00              | -1.22             | -4.23             | 0.11              |
|       | 63   | 0.00              | 0.00              | 0.00              | -0.76             | -0.49             | 0.15              | 64   | 0.00              | 0.00              | 0.00              | 0.47              | -0.03             | 0.04              |
| 47    | 67   | 0.00              | 0.00              | 0.00              | -0.84             | -4.15             | 0.26              | 68   | 0.00              | 0.00              | 0.00              | -1.29             | -4.09             | -0.03             |
|       | 64   | 0.00              | 0.00              | 0.00              | -1.37             | -0.40             | 0.18              | 65   | 0.00              | 0.00              | 0.00              | 1.39              | 0.23              | -0.10             |
| 48    | 68   | 0.00              | 0.00              | 0.00              | -0.72             | -3.97             | 0.17              | 69   | 0.00              | 0.00              | 0.00              | 0.92              | -4.84             | 0.52              |



TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 65   | 0.00  | 0.00  | 0.00  | -3.21 | -0.69 | 0.17  | 14   | 0.00  | 0.00  | 0.00  | 4.82  | 2.12  | 0.51  |
| 49    | 53   | 0.00  | 0.00  | 0.00  | -1.16 | -5.80 | 0.13  | 70   | 0.00  | 0.00  | 0.00  | -0.92 | -5.20 | 0.23  |
|       | 49   | 0.00  | 0.00  | 0.00  | -0.67 | -4.02 | 0.01  | 66   | 0.00  | 0.00  | 0.00  | -1.04 | -4.27 | 0.11  |
| 50    | 70   | 0.00  | 0.00  | 0.00  | -1.07 | -5.23 | 0.25  | 71   | 0.00  | 0.00  | 0.00  | -1.46 | -5.14 | 0.22  |
|       | 66   | 0.00  | 0.00  | 0.00  | -0.86 | -4.23 | 0.17  | 67   | 0.00  | 0.00  | 0.00  | -1.22 | -4.20 | 0.14  |
| 51    | 71   | 0.00  | 0.00  | 0.00  | -1.53 | -5.16 | 0.05  | 72   | 0.00  | 0.00  | 0.00  | -1.04 | -5.29 | 0.04  |
|       | 67   | 0.00  | 0.00  | 0.00  | -0.83 | -4.13 | 0.13  | 68   | 0.00  | 0.00  | 0.00  | -1.32 | -4.26 | 0.13  |
| 52    | 72   | 0.00  | 0.00  | 0.00  | -1.16 | -5.32 | -0.10 | 73   | 0.00  | 0.00  | 0.00  | -0.55 | -6.77 | -0.79 |
|       | 68   | 0.00  | 0.00  | 0.00  | -0.75 | -4.14 | 0.61  | 69   | 0.00  | 0.00  | 0.00  | 1.00  | -4.44 | -0.08 |
| 53    | 58   | 0.00  | 0.00  | 0.00  | 1.76  | -1.08 | 0.14  | 74   | 0.00  | 0.00  | 0.00  | -0.55 | -0.66 | 0.93  |
|       | 53   | 0.00  | 0.00  | 0.00  | -1.11 | -5.57 | -0.21 | 70   | 0.00  | 0.00  | 0.00  | -0.94 | -5.32 | 0.58  |
| 54    | 74   | 0.00  | 0.00  | 0.00  | -0.79 | -0.70 | 0.47  | 75   | 0.00  | 0.00  | 0.00  | -0.77 | -1.11 | 0.06  |
|       | 70   | 0.00  | 0.00  | 0.00  | -1.10 | -5.35 | 0.49  | 71   | 0.00  | 0.00  | 0.00  | -1.44 | -5.05 | 0.08  |
| 55    | 75   | 0.00  | 0.00  | 0.00  | -0.83 | -1.12 | 0.13  | 76   | 0.00  | 0.00  | 0.00  | -0.88 | -0.87 | -0.33 |
|       | 71   | 0.00  | 0.00  | 0.00  | -1.51 | -5.07 | 0.22  | 72   | 0.00  | 0.00  | 0.00  | -1.09 | -5.53 | -0.24 |
| 56    | 76   | 0.00  | 0.00  | 0.00  | -0.41 | -0.77 | -0.35 | 77   | 0.00  | 0.00  | 0.00  | -0.21 | -1.14 | -0.87 |
|       | 72   | 0.00  | 0.00  | 0.00  | -1.21 | -5.55 | -0.21 | 73   | 0.00  | 0.00  | 0.00  | -0.27 | -5.39 | -0.73 |
| 57    | 62   | 0.00  | 0.00  | 0.00  | 7.98  | 20.70 | -0.10 | 78   | 0.00  | 0.00  | 0.00  | 0.23  | 13.70 | -0.23 |
|       | 58   | 0.00  | 0.00  | 0.00  | 1.63  | -1.77 | 1.02  | 74   | 0.00  | 0.00  | 0.00  | -0.47 | -0.28 | 0.89  |
| 58    | 78   | 0.00  | 0.00  | 0.00  | 3.03  | 14.26 | 0.09  | 79   | 0.00  | 0.00  | 0.00  | 1.53  | 14.60 | 0.09  |
|       | 74   | 0.00  | 0.00  | 0.00  | -0.72 | -0.33 | 0.15  | 75   | 0.00  | 0.00  | 0.00  | -0.78 | -1.17 | 0.15  |
| 59    | 79   | 0.00  | 0.00  | 0.00  | 2.01  | 14.70 | -0.17 | 80   | 0.00  | 0.00  | 0.00  | 2.60  | 14.17 | -0.09 |
|       | 75   | 0.00  | 0.00  | 0.00  | -0.85 | -1.19 | -0.05 | 76   | 0.00  | 0.00  | 0.00  | -0.89 | -0.92 | 0.03  |
| 60    | 80   | 0.00  | 0.00  | 0.00  | 0.94  | 13.84 | 0.38  | 81   | 0.00  | 0.00  | 0.00  | 6.34  | 18.43 | 0.96  |
|       | 76   | 0.00  | 0.00  | 0.00  | -0.42 | -0.83 | -1.05 | 77   | 0.00  | 0.00  | 0.00  | 0.07  | 0.26  | -0.47 |
| 61    | 17   | 0.00  | 0.00  | 0.00  | 3.06  | -0.03 | 0.82  | 86   | 0.00  | 0.00  | 0.00  | 1.67  | 0.01  | 1.02  |
|       | 12   | 0.00  | 0.00  | 0.00  | 1.82  | 2.17  | 0.48  | 82   | 0.00  | 0.00  | 0.00  | 0.42  | 2.21  | 0.68  |
| 62    | 86   | 0.00  | 0.00  | 0.00  | -1.30 | -0.85 | 0.94  | 87   | 0.00  | 0.00  | 0.00  | -1.19 | -0.71 | 0.70  |
|       | 82   | 0.00  | 0.00  | 0.00  | -0.82 | 2.70  | 0.97  | 83   | 0.00  | 0.00  | 0.00  | -0.72 | 2.85  | 0.72  |
| 63    | 87   | 0.00  | 0.00  | 0.00  | -1.39 | -0.95 | 0.65  | 88   | 0.00  | 0.00  | 0.00  | -0.71 | -0.64 | 0.43  |
|       | 83   | 0.00  | 0.00  | 0.00  | -0.95 | 3.32  | 0.66  | 84   | 0.00  | 0.00  | 0.00  | -0.28 | 3.64  | 0.43  |
| 64    | 88   | 0.00  | 0.00  | 0.00  | -0.45 | -0.75 | 0.53  | 89   | 0.00  | 0.00  | 0.00  | 0.92  | -0.23 | 0.25  |
|       | 84   | 0.00  | 0.00  | 0.00  | 0.23  | 4.37  | 0.53  | 85   | 0.00  | 0.00  | 0.00  | 1.61  | 4.89  | 0.26  |
| 65    | 14   | 0.00  | 0.00  | 0.00  | 4.08  | 0.07  | -1.01 | 90   | 0.00  | 0.00  | 0.00  | 0.29  | -1.27 | -0.97 |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 17   | 0.00              | 0.00              | 0.00              | 4.09              | 0.42              | -0.48             | 86   | 0.00              | 0.00              | 0.00              | 0.29              | -0.92             | -0.43             |
| 66    | 90   | 0.00              | 0.00              | 0.00              | -1.40             | -1.57             | -0.65             | 91   | 0.00              | 0.00              | 0.00              | -2.30             | -2.23             | -0.51             |
|       | 86   | 0.00              | 0.00              | 0.00              | -1.80             | -2.60             | -0.24             | 87   | 0.00              | 0.00              | 0.00              | -2.69             | -3.25             | -0.10             |
| 67    | 91   | 0.00              | 0.00              | 0.00              | -1.76             | -2.45             | -0.29             | 92   | 0.00              | 0.00              | 0.00              | -1.83             | -2.70             | -0.19             |
|       | 87   | 0.00              | 0.00              | 0.00              | -2.04             | -3.59             | -0.10             | 88   | 0.00              | 0.00              | 0.00              | -2.11             | -3.85             | 0.00              |
| 68    | 92   | 0.00              | 0.00              | 0.00              | -1.09             | -2.74             | -0.10             | 93   | 0.00              | 0.00              | 0.00              | -1.04             | -2.82             | -0.09             |
|       | 88   | 0.00              | 0.00              | 0.00              | -1.07             | -3.83             | -0.07             | 89   | 0.00              | 0.00              | 0.00              | -1.03             | -3.90             | -0.07             |
| 69    | 94   | 0.00              | 0.00              | 0.00              | -0.02             | -3.73             | -1.20             | 90   | 0.00              | 0.00              | 0.00              | 0.84              | -1.96             | -1.30             |
|       | 69   | 0.00              | 0.00              | 0.00              | 1.61              | -2.93             | -1.01             | 14   | 0.00              | 0.00              | 0.00              | 2.47              | -1.16             | -1.12             |
| 70    | 94   | 0.00              | 0.00              | 0.00              | -1.09             | -3.81             | -0.83             | 95   | 0.00              | 0.00              | 0.00              | -1.08             | -3.69             | -0.67             |
|       | 90   | 0.00              | 0.00              | 0.00              | -1.63             | -3.03             | -0.94             | 91   | 0.00              | 0.00              | 0.00              | -1.61             | -2.90             | -0.78             |
| 71    | 95   | 0.00              | 0.00              | 0.00              | -1.39             | -3.69             | -0.47             | 96   | 0.00              | 0.00              | 0.00              | -1.16             | -3.66             | -0.38             |
|       | 91   | 0.00              | 0.00              | 0.00              | -1.68             | -2.85             | -0.42             | 92   | 0.00              | 0.00              | 0.00              | -1.46             | -2.82             | -0.34             |
| 72    | 96   | 0.00              | 0.00              | 0.00              | -0.72             | -3.60             | -0.21             | 97   | 0.00              | 0.00              | 0.00              | -0.52             | -3.57             | -0.13             |
|       | 92   | 0.00              | 0.00              | 0.00              | -1.02             | -2.73             | -0.17             | 93   | 0.00              | 0.00              | 0.00              | -0.82             | -2.71             | -0.08             |
| 73    | 77   | 0.00              | 0.00              | 0.00              | 1.00              | 1.33              | 0.16              | 98   | 0.00              | 0.00              | 0.00              | 3.08              | 4.28              | 0.56              |
|       | 73   | 0.00              | 0.00              | 0.00              | -0.08             | -3.83             | -0.33             | 94   | 0.00              | 0.00              | 0.00              | 2.00              | -0.88             | 0.07              |
| 74    | 98   | 0.00              | 0.00              | 0.00              | 0.63              | 5.08              | 0.13              | 99   | 0.00              | 0.00              | 0.00              | 0.34              | 5.39              | 0.26              |
|       | 94   | 0.00              | 0.00              | 0.00              | 0.31              | -0.11             | -0.32             | 95   | 0.00              | 0.00              | 0.00              | 0.02              | 0.20              | -0.19             |
| 75    | 99   | 0.00              | 0.00              | 0.00              | 0.09              | 5.60              | -0.17             | 100  | 0.00              | 0.00              | 0.00              | 0.26              | 5.73              | -0.04             |
|       | 95   | 0.00              | 0.00              | 0.00              | -0.18             | 0.39              | -0.32             | 96   | 0.00              | 0.00              | 0.00              | -0.01             | 0.52              | -0.19             |
| 76    | 100  | 0.00              | 0.00              | 0.00              | 0.81              | 6.14              | -0.24             | 101  | 0.00              | 0.00              | 0.00              | 1.79              | 6.44              | -0.02             |
|       | 96   | 0.00              | 0.00              | 0.00              | 0.25              | 0.51              | -0.41             | 97   | 0.00              | 0.00              | 0.00              | 1.23              | 0.82              | -0.19             |
| 77    | 94   | 0.00              | 0.00              | 0.00              | -0.65             | -5.84             | -0.36             | 94   | 0.00              | 0.00              | 0.00              | -0.65             | -5.84             | -0.36             |
|       | 73   | 0.00              | 0.00              | 0.00              | -0.65             | -5.84             | -0.36             | 69   | 0.00              | 0.00              | 0.00              | -0.65             | -5.84             | -0.36             |
| 78    | 81   | 0.00              | 0.00              | 0.00              | 1.55              | 7.52              | 1.29              | 81   | 0.00              | 0.00              | 0.00              | 1.55              | 7.52              | 1.29              |
|       | 77   | 0.00              | 0.00              | 0.00              | 1.55              | 7.52              | 1.29              | 98   | 0.00              | 0.00              | 0.00              | 1.55              | 7.52              | 1.29              |
| 79    | 89   | 0.00              | 0.00              | 0.00              | -2.05             | -7.22             | -0.46             | 106  | 0.00              | 0.00              | 0.00              | -0.50             | -4.96             | -0.87             |
|       | 85   | 0.00              | 0.00              | 0.00              | 6.73              | 12.63             | 0.06              | 102  | 0.00              | 0.00              | 0.00              | -0.90             | 8.45              | -0.35             |
| 80    | 106  | 0.00              | 0.00              | 0.00              | -1.28             | -5.12             | -0.39             | 107  | 0.00              | 0.00              | 0.00              | -1.16             | -4.95             | -0.17             |
|       | 102  | 0.00              | 0.00              | 0.00              | 1.74              | 8.98              | -0.31             | 103  | 0.00              | 0.00              | 0.00              | 0.38              | 8.45              | -0.09             |
| 81    | 107  | 0.00              | 0.00              | 0.00              | -1.25             | -4.97             | -0.06             | 108  | 0.00              | 0.00              | 0.00              | -1.10             | -4.81             | 0.17              |
|       | 103  | 0.00              | 0.00              | 0.00              | 0.68              | 8.51              | -0.06             | 104  | 0.00              | 0.00              | 0.00              | 1.36              | 8.52              | 0.17              |
| 82    | 108  | 0.00              | 0.00              | 0.00              | -0.66             | -4.72             | 0.75              | 109  | 0.00              | 0.00              | 0.00              | -1.11             | -6.16             | 0.54              |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 104  | 0.00  | 0.00  | 0.00  | -0.23 | 8.20  | -0.04 | 105  | 0.00  | 0.00  | 0.00  | 5.53  | 11.76 | -0.25 |
| 83    | 93   | 0.00  | 0.00  | 0.00  | -0.20 | -1.36 | -0.06 | 110  | 0.00  | 0.00  | 0.00  | -0.45 | -1.35 | -0.06 |
|       | 89   | 0.00  | 0.00  | 0.00  | -1.70 | -5.45 | -0.11 | 106  | 0.00  | 0.00  | 0.00  | -0.55 | -5.22 | -0.11 |
| 84    | 110  | 0.00  | 0.00  | 0.00  | -0.22 | -1.31 | -0.03 | 111  | 0.00  | 0.00  | 0.00  | -0.28 | -1.36 | 0.08  |
|       | 106  | 0.00  | 0.00  | 0.00  | -1.33 | -5.37 | -0.24 | 107  | 0.00  | 0.00  | 0.00  | -1.18 | -5.01 | -0.13 |
| 85    | 111  | 0.00  | 0.00  | 0.00  | -0.26 | -1.36 | -0.07 | 112  | 0.00  | 0.00  | 0.00  | -0.22 | -1.35 | 0.04  |
|       | 107  | 0.00  | 0.00  | 0.00  | -1.26 | -5.02 | 0.02  | 108  | 0.00  | 0.00  | 0.00  | -1.16 | -5.12 | 0.13  |
| 86    | 112  | 0.00  | 0.00  | 0.00  | -0.32 | -1.37 | -0.02 | 113  | 0.00  | 0.00  | 0.00  | -0.21 | -1.19 | -0.12 |
|       | 108  | 0.00  | 0.00  | 0.00  | -0.72 | -5.03 | 0.16  | 109  | 0.00  | 0.00  | 0.00  | -0.98 | -5.49 | 0.06  |
| 87    | 97   | 0.00  | 0.00  | 0.00  | -1.23 | -4.99 | 0.04  | 114  | 0.00  | 0.00  | 0.00  | -0.41 | -4.63 | 0.13  |
|       | 93   | 0.00  | 0.00  | 0.00  | -0.20 | -1.35 | -0.12 | 110  | 0.00  | 0.00  | 0.00  | -0.46 | -1.38 | -0.02 |
| 88    | 114  | 0.00  | 0.00  | 0.00  | -1.07 | -4.77 | 0.21  | 115  | 0.00  | 0.00  | 0.00  | -1.04 | -4.41 | 0.14  |
|       | 110  | 0.00  | 0.00  | 0.00  | -0.23 | -1.33 | -0.03 | 111  | 0.00  | 0.00  | 0.00  | -0.28 | -1.37 | -0.10 |
| 89    | 115  | 0.00  | 0.00  | 0.00  | -1.09 | -4.42 | -0.02 | 116  | 0.00  | 0.00  | 0.00  | -1.04 | -4.54 | -0.12 |
|       | 111  | 0.00  | 0.00  | 0.00  | -0.26 | -1.36 | 0.06  | 112  | 0.00  | 0.00  | 0.00  | -0.21 | -1.35 | -0.03 |
| 90    | 116  | 0.00  | 0.00  | 0.00  | -0.61 | -4.45 | -0.15 | 117  | 0.00  | 0.00  | 0.00  | -0.84 | -4.87 | -0.05 |
|       | 112  | 0.00  | 0.00  | 0.00  | -0.32 | -1.37 | 0.01  | 113  | 0.00  | 0.00  | 0.00  | -0.21 | -1.20 | 0.12  |
| 91    | 101  | 0.00  | 0.00  | 0.00  | 6.59  | 14.54 | -0.06 | 118  | 0.00  | 0.00  | 0.00  | -0.15 | 10.19 | 0.22  |
|       | 97   | 0.00  | 0.00  | 0.00  | -1.57 | -6.69 | 0.59  | 114  | 0.00  | 0.00  | 0.00  | -0.35 | -4.33 | 0.88  |
| 92    | 118  | 0.00  | 0.00  | 0.00  | 2.06  | 10.63 | 0.28  | 119  | 0.00  | 0.00  | 0.00  | 0.88  | 10.16 | 0.06  |
|       | 114  | 0.00  | 0.00  | 0.00  | -1.01 | -4.46 | 0.38  | 115  | 0.00  | 0.00  | 0.00  | -1.03 | -4.36 | 0.15  |
| 93    | 119  | 0.00  | 0.00  | 0.00  | 1.05  | 10.20 | 0.03  | 120  | 0.00  | 0.00  | 0.00  | 1.80  | 10.19 | -0.18 |
|       | 115  | 0.00  | 0.00  | 0.00  | -1.08 | -4.37 | 0.05  | 116  | 0.00  | 0.00  | 0.00  | -0.98 | -4.22 | -0.16 |
| 94    | 120  | 0.00  | 0.00  | 0.00  | 0.24  | 9.88  | 0.05  | 121  | 0.00  | 0.00  | 0.00  | 5.74  | 13.38 | 0.27  |
|       | 116  | 0.00  | 0.00  | 0.00  | -0.54 | -4.14 | -0.73 | 117  | 0.00  | 0.00  | 0.00  | -0.98 | -5.56 | -0.51 |
| 95    | 109  | 0.00  | 0.00  | 0.00  | -1.14 | -6.16 | -0.69 | 126  | 0.00  | 0.00  | 0.00  | -0.57 | -4.65 | -0.90 |
|       | 105  | 0.00  | 0.00  | 0.00  | 5.55  | 11.76 | 0.19  | 122  | 0.00  | 0.00  | 0.00  | -0.15 | 8.13  | -0.02 |
| 96    | 126  | 0.00  | 0.00  | 0.00  | -1.11 | -4.76 | -0.37 | 127  | 0.00  | 0.00  | 0.00  | -1.07 | -4.67 | -0.15 |
|       | 122  | 0.00  | 0.00  | 0.00  | 1.71  | 8.50  | -0.27 | 123  | 0.00  | 0.00  | 0.00  | 0.29  | 8.01  | -0.05 |
| 97    | 127  | 0.00  | 0.00  | 0.00  | -1.16 | -4.69 | -0.02 | 128  | 0.00  | 0.00  | 0.00  | -0.99 | -4.63 | 0.20  |
|       | 123  | 0.00  | 0.00  | 0.00  | 0.62  | 8.08  | -0.04 | 124  | 0.00  | 0.00  | 0.00  | 1.34  | 8.22  | 0.17  |
| 98    | 128  | 0.00  | 0.00  | 0.00  | -0.65 | -4.56 | 0.69  | 129  | 0.00  | 0.00  | 0.00  | -1.13 | -5.91 | 0.50  |
|       | 124  | 0.00  | 0.00  | 0.00  | 0.19  | 7.99  | -0.05 | 125  | 0.00  | 0.00  | 0.00  | 4.82  | 11.11 | -0.25 |
| 99    | 113  | 0.00  | 0.00  | 0.00  | -0.22 | -1.20 | 0.13  | 130  | 0.00  | 0.00  | 0.00  | -0.30 | -1.34 | 0.03  |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 109  | 0.00              | 0.00              | 0.00              | -1.00             | -5.50             | -0.15             | 126  | 0.00              | 0.00              | 0.00              | -0.63             | -4.95             | -0.25             |
| 100   | 130  | 0.00              | 0.00              | 0.00              | -0.19             | -1.32             | -0.01             | 131  | 0.00              | 0.00              | 0.00              | -0.22             | -1.32             | 0.08              |
|       | 126  | 0.00              | 0.00              | 0.00              | -1.17             | -5.05             | -0.23             | 127  | 0.00              | 0.00              | 0.00              | -1.09             | -4.76             | -0.14             |
| 101   | 131  | 0.00              | 0.00              | 0.00              | -0.19             | -1.32             | -0.07             | 132  | 0.00              | 0.00              | 0.00              | -0.20             | -1.28             | 0.02              |
|       | 127  | 0.00              | 0.00              | 0.00              | -1.18             | -4.77             | 0.02              | 128  | 0.00              | 0.00              | 0.00              | -1.05             | -4.90             | 0.11              |
| 102   | 132  | 0.00              | 0.00              | 0.00              | -0.25             | -1.29             | -0.01             | 133  | 0.00              | 0.00              | 0.00              | -0.46             | -1.17             | -0.12             |
|       | 128  | 0.00              | 0.00              | 0.00              | -0.71             | -4.83             | 0.13              | 129  | 0.00              | 0.00              | 0.00              | -0.99             | -5.23             | 0.01              |
| 103   | 117  | 0.00              | 0.00              | 0.00              | -0.85             | -4.87             | 0.16              | 134  | 0.00              | 0.00              | 0.00              | -0.52             | -4.33             | 0.27              |
|       | 113  | 0.00              | 0.00              | 0.00              | -0.22             | -1.20             | -0.13             | 130  | 0.00              | 0.00              | 0.00              | -0.30             | -1.33             | -0.03             |
| 104   | 134  | 0.00              | 0.00              | 0.00              | -1.03             | -4.43             | 0.26              | 135  | 0.00              | 0.00              | 0.00              | -0.93             | -4.08             | 0.17              |
|       | 130  | 0.00              | 0.00              | 0.00              | -0.19             | -1.31             | 0.00              | 131  | 0.00              | 0.00              | 0.00              | -0.22             | -1.32             | -0.08             |
| 105   | 135  | 0.00              | 0.00              | 0.00              | -1.03             | -4.10             | 0.02              | 136  | 0.00              | 0.00              | 0.00              | -0.86             | -4.15             | -0.06             |
|       | 131  | 0.00              | 0.00              | 0.00              | -0.19             | -1.31             | 0.06              | 132  | 0.00              | 0.00              | 0.00              | -0.20             | -1.28             | -0.02             |
| 106   | 136  | 0.00              | 0.00              | 0.00              | -0.58             | -4.10             | -0.07             | 137  | 0.00              | 0.00              | 0.00              | -0.73             | -4.36             | 0.06              |
|       | 132  | 0.00              | 0.00              | 0.00              | -0.25             | -1.29             | -0.01             | 133  | 0.00              | 0.00              | 0.00              | -0.46             | -1.17             | 0.12              |
| 107   | 121  | 0.00              | 0.00              | 0.00              | 5.71              | 13.37             | -0.23             | 138  | 0.00              | 0.00              | 0.00              | 0.34              | 9.68              | -0.01             |
|       | 117  | 0.00              | 0.00              | 0.00              | -0.99             | -5.56             | 0.72              | 134  | 0.00              | 0.00              | 0.00              | -0.46             | -4.03             | 0.94              |
| 108   | 138  | 0.00              | 0.00              | 0.00              | 2.07              | 10.03             | 0.25              | 139  | 0.00              | 0.00              | 0.00              | 0.68              | 9.44              | 0.06              |
|       | 134  | 0.00              | 0.00              | 0.00              | -0.97             | -4.13             | 0.41              | 135  | 0.00              | 0.00              | 0.00              | -0.92             | -4.01             | 0.22              |
| 109   | 139  | 0.00              | 0.00              | 0.00              | 1.03              | 9.51              | 0.05              | 140  | 0.00              | 0.00              | 0.00              | 1.64              | 9.47              | -0.14             |
|       | 135  | 0.00              | 0.00              | 0.00              | -1.02             | -4.03             | 0.10              | 136  | 0.00              | 0.00              | 0.00              | -0.81             | -3.88             | -0.10             |
| 110   | 140  | 0.00              | 0.00              | 0.00              | 0.68              | 9.28              | 0.11              | 141  | 0.00              | 0.00              | 0.00              | 4.89              | 12.17             | 0.31              |
|       | 136  | 0.00              | 0.00              | 0.00              | -0.53             | -3.82             | -0.58             | 137  | 0.00              | 0.00              | 0.00              | -0.87             | -5.07             | -0.39             |
| 111   | 129  | 0.00              | 0.00              | 0.00              | -1.29             | -5.95             | -0.69             | 146  | 0.00              | 0.00              | 0.00              | -1.27             | -4.61             | -1.10             |
|       | 125  | 0.00              | 0.00              | 0.00              | 5.61              | 11.27             | 0.25              | 142  | 0.00              | 0.00              | 0.00              | -0.52             | 7.47              | -0.17             |
| 112   | 146  | 0.00              | 0.00              | 0.00              | -1.86             | -4.73             | -0.69             | 147  | 0.00              | 0.00              | 0.00              | -2.89             | -4.60             | -1.06             |
|       | 142  | 0.00              | 0.00              | 0.00              | 1.71              | 7.92              | -0.22             | 143  | 0.00              | 0.00              | 0.00              | -0.07             | 6.61              | -0.59             |
| 113   | 147  | 0.00              | 0.00              | 0.00              | -3.04             | -4.63             | -1.22             | 148  | 0.00              | 0.00              | 0.00              | -2.51             | -2.98             | -1.92             |
|       | 143  | 0.00              | 0.00              | 0.00              | 0.50              | 6.72              | -0.36             | 144  | 0.00              | 0.00              | 0.00              | 0.69              | 4.07              | -1.06             |
| 114   | 148  | 0.00              | 0.00              | 0.00              | -2.67             | -3.01             | -2.02             | 149  | 0.00              | 0.00              | 0.00              | 7.14              | -1.20             | -0.90             |
|       | 144  | 0.00              | 0.00              | 0.00              | -0.72             | 3.79              | -1.46             | 145  | 0.00              | 0.00              | 0.00              | 2.71              | 3.89              | -0.35             |
| 115   | 133  | 0.00              | 0.00              | 0.00              | -0.38             | -1.15             | 0.18              | 150  | 0.00              | 0.00              | 0.00              | -1.36             | -1.34             | 0.00              |
|       | 129  | 0.00              | 0.00              | 0.00              | -1.16             | -5.26             | -0.24             | 146  | 0.00              | 0.00              | 0.00              | -1.29             | -4.73             | -0.43             |
| 116   | 150  | 0.00              | 0.00              | 0.00              | -1.24             | -1.32             | 0.17              | 151  | 0.00              | 0.00              | 0.00              | -2.52             | -1.21             | 0.08              |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 146  | 0.00              | 0.00              | 0.00              | -1.88             | -4.85             | -0.63             | 147  | 0.00              | 0.00              | 0.00              | -2.84             | -4.34             | -0.71             |
| 117   | 151  | 0.00              | 0.00              | 0.00              | -2.68             | -1.24             | 0.25              | 152  | 0.00              | 0.00              | 0.00              | -1.58             | -0.57             | 0.28              |
|       | 147  | 0.00              | 0.00              | 0.00              | -2.99             | -4.37             | -0.96             | 148  | 0.00              | 0.00              | 0.00              | -2.54             | -3.12             | -0.93             |
| 118   | 152  | 0.00              | 0.00              | 0.00              | -1.88             | -0.63             | 0.64              | 153  | 0.00              | 0.00              | 0.00              | 8.45              | 1.65              | 0.88              |
|       | 148  | 0.00              | 0.00              | 0.00              | -2.70             | -3.15             | -1.26             | 149  | 0.00              | 0.00              | 0.00              | 7.62              | 1.21              | -1.02             |
| 119   | 137  | 0.00              | 0.00              | 0.00              | -0.97             | -4.41             | 0.30              | 154  | 0.00              | 0.00              | 0.00              | -0.92             | -3.75             | 0.53              |
|       | 133  | 0.00              | 0.00              | 0.00              | -0.38             | -1.16             | -0.18             | 150  | 0.00              | 0.00              | 0.00              | -1.37             | -1.37             | 0.05              |
| 120   | 154  | 0.00              | 0.00              | 0.00              | -1.58             | -3.88             | 0.67              | 155  | 0.00              | 0.00              | 0.00              | -2.15             | -3.33             | 0.89              |
|       | 150  | 0.00              | 0.00              | 0.00              | -1.24             | -1.34             | -0.07             | 151  | 0.00              | 0.00              | 0.00              | -2.54             | -1.29             | 0.15              |
| 121   | 155  | 0.00              | 0.00              | 0.00              | -2.39             | -3.38             | 1.04              | 156  | 0.00              | 0.00              | 0.00              | -1.82             | -2.71             | 1.25              |
|       | 151  | 0.00              | 0.00              | 0.00              | -2.70             | -1.32             | 0.09              | 152  | 0.00              | 0.00              | 0.00              | -1.54             | -0.38             | 0.30              |
| 122   | 156  | 0.00              | 0.00              | 0.00              | -2.19             | -2.79             | 1.68              | 157  | 0.00              | 0.00              | 0.00              | 6.19              | 2.95              | 1.13              |
|       | 152  | 0.00              | 0.00              | 0.00              | -1.84             | -0.44             | 0.03              | 153  | 0.00              | 0.00              | 0.00              | 8.06              | -0.32             | -0.52             |
| 123   | 141  | 0.00              | 0.00              | 0.00              | 5.95              | 12.38             | -0.24             | 158  | 0.00              | 0.00              | 0.00              | -0.28             | 8.24              | 0.18              |
|       | 137  | 0.00              | 0.00              | 0.00              | -1.11             | -5.11             | 0.84              | 154  | 0.00              | 0.00              | 0.00              | -0.89             | -3.60             | 1.25              |
| 124   | 158  | 0.00              | 0.00              | 0.00              | 2.14              | 8.73              | 0.25              | 159  | 0.00              | 0.00              | 0.00              | 0.06              | 7.22              | 0.55              |
|       | 154  | 0.00              | 0.00              | 0.00              | -1.55             | -3.73             | 0.85              | 155  | 0.00              | 0.00              | 0.00              | -2.20             | -3.56             | 1.15              |
| 125   | 159  | 0.00              | 0.00              | 0.00              | 1.08              | 7.42              | 0.31              | 160  | 0.00              | 0.00              | 0.00              | 0.55              | 4.82              | 0.81              |
|       | 155  | 0.00              | 0.00              | 0.00              | -2.43             | -3.61             | 1.34              | 156  | 0.00              | 0.00              | 0.00              | -1.75             | -2.33             | 1.84              |
| 126   | 160  | 0.00              | 0.00              | 0.00              | 1.33              | 4.98              | 1.03              | 161  | 0.00              | 0.00              | 0.00              | 0.39              | 5.73              | 0.02              |
|       | 156  | 0.00              | 0.00              | 0.00              | -2.12             | -2.41             | 2.22              | 157  | 0.00              | 0.00              | 0.00              | 4.89              | -3.52             | 1.21              |
| 127   | 162  | -0.20             | -1.69             | 2.60              | -0.19             | -0.95             | -0.64             | 301  | 0.11              | -0.15             | 4.03              | 0.05              | 0.23              | -0.64             |
|       | 18   | -0.20             | -1.69             | 0.07              | 0.93              | 4.67              | 0.61              | 283  | 0.11              | -0.15             | 1.50              | -0.35             | -1.77             | 0.61              |
| 128   | 163  | -1.58             | -5.94             | 3.05              | 2.26              | 11.30             | -0.94             | 304  | -0.10             | 1.42              | 3.10              | -0.48             | -2.41             | -0.94             |
|       | 19   | -1.58             | -5.94             | 0.00              | -1.63             | -8.15             | 0.91              | 22   | -0.10             | 1.42              | 0.05              | -0.34             | -1.71             | 0.91              |
| 129   | 164  | -1.23             | -4.25             | -5.84             | 1.00              | 4.98              | -0.34             | 310  | -0.06             | 1.61              | -5.63             | -0.26             | -1.31             | -0.34             |
|       | 11   | -1.23             | -4.25             | -7.19             | -0.43             | -2.15             | 0.32              | 307  | -0.06             | 1.61              | -6.98             | 0.14              | 0.68              | 0.32              |
| 130   | 166  | -2.77             | -11.09            | 2.98              | 2.36              | 11.81             | -1.18             | 316  | 0.36              | 4.57              | 3.21              | -0.55             | -2.75             | -1.18             |
|       | 165  | -2.77             | -11.09            | -2.96             | -0.31             | -1.57             | 1.15              | 313  | 0.36              | 4.57              | -2.74             | 0.15              | 0.73              | 1.15              |
| 131   | 167  | -1.28             | -5.51             | 7.30              | 1.08              | 5.40              | -0.33             | 319  | 0.06              | 1.22              | 7.84              | -0.29             | -1.44             | -0.33             |
|       | 12   | -1.28             | -5.51             | 3.47              | -0.51             | -2.55             | 0.30              | 82   | 0.06              | 1.22              | 4.01              | 0.29              | 1.47              | 0.30              |
| 132   | 168  | -1.64             | -6.35             | 5.90              | 2.52              | 12.62             | -1.16             | 322  | 0.04              | 2.05              | 6.68              | -0.59             | -2.93             | -1.16             |
|       | 85   | -1.64             | -6.35             | 2.30              | -1.73             | -8.67             | 1.13              | 102  | 0.04              | 2.05              | 3.08              | -0.80             | -3.98             | 1.13              |
| 133   | 169  | -1.62             | -6.45             | 5.74              | 2.45              | 12.25             | -1.33             | 325  | 0.04              | 1.83              | 6.38              | -0.55             | -2.73             | -1.33             |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 105  | -1.62             | -6.45             | 1.86              | -1.43             | -7.15             | 1.30              | 122  | 0.04              | 1.83              | 2.50              | -0.73             | -3.67             | 1.30              |
| 134   | 170  | -1.50             | -5.91             | 5.60              | 2.36              | 11.78             | -1.20             | 328  | 0.04              | 1.79              | 6.21              | -0.51             | -2.55             | -1.20             |
|       | 125  | -1.50             | -5.91             | 2.13              | -1.37             | -6.87             | 1.17              | 142  | 0.04              | 1.79              | 2.74              | -0.70             | -3.49             | 1.17              |
| 135   | 172  | -0.26             | -1.99             | 0.47              | 0.25              | 1.25              | 0.69              | 331  | 0.12              | -0.09             | -0.52             | -0.06             | -0.31             | 0.69              |
|       | 20   | -0.26             | -1.99             | -1.34             | -0.69             | -3.45             | -0.71             | 298  | 0.12              | -0.09             | -2.33             | 0.79              | 3.97              | -0.71             |
| 136   | 173  | -1.46             | -5.22             | 1.89              | -2.54             | -12.72            | 1.48              | 334  | -0.13             | 1.44              | 1.75              | 0.54              | 2.72              | 1.48              |
|       | 21   | -1.46             | -5.22             | -0.40             | 1.84              | 9.19              | -1.51             | 37   | -0.13             | 1.44              | -0.54             | 1.10              | 5.50              | -1.51             |
| 137   | 174  | -1.49             | -5.29             | 3.40              | -2.80             | -14.02            | 1.44              | 337  | -0.01             | 2.08              | 3.71              | 0.67              | 3.34              | 1.44              |
|       | 41   | -1.49             | -5.29             | 1.44              | 2.35              | 11.74             | -1.47             | 59   | -0.01             | 2.08              | 1.76              | 1.93              | 9.64              | -1.47             |
| 138   | 175  | -1.65             | -6.44             | 5.16              | -3.04             | -15.20            | 1.29              | 340  | 0.11              | 2.35              | 5.60              | 0.73              | 3.64              | 1.29              |
|       | 62   | -1.65             | -6.44             | 1.73              | 3.07              | 15.35             | -1.32             | 78   | 0.11              | 2.35              | 2.17              | 2.04              | 10.19             | -1.32             |
| 139   | 176  | -1.46             | -5.91             | 5.64              | -2.84             | -14.22            | 1.52              | 343  | -0.04             | 1.18              | 5.35              | 0.62              | 3.09              | 1.52              |
|       | 81   | -1.46             | -5.91             | 2.66              | 2.51              | 12.54             | -1.55             | 98   | -0.04             | 1.18              | 2.37              | 1.80              | 9.02              | -1.55             |
| 140   | 177  | -1.54             | -5.89             | 4.92              | -2.74             | -13.70            | 1.27              | 346  | 0.03              | 1.94              | 5.57              | 0.64              | 3.18              | 1.27              |
|       | 101  | -1.54             | -5.89             | 1.69              | 2.13              | 10.64             | -1.30             | 118  | 0.03              | 1.94              | 2.35              | 1.20              | 5.99              | -1.30             |
| 141   | 178  | -1.54             | -6.13             | 5.29              | -2.67             | -13.33            | 1.40              | 349  | 0.04              | 1.79              | 6.00              | 0.59              | 2.97              | 1.40              |
|       | 121  | -1.54             | -6.13             | 1.61              | 1.88              | 9.41              | -1.43             | 138  | 0.04              | 1.79              | 2.32              | 1.09              | 5.47              | -1.43             |
| 142   | 179  | -1.44             | -5.74             | 6.02              | -2.56             | -12.81            | 1.25              | 352  | 0.08              | 1.82              | 7.06              | 0.55              | 2.76              | 1.25              |
|       | 141  | -1.44             | -5.74             | 2.41              | 1.75              | 8.73              | -1.28             | 158  | 0.08              | 1.82              | 3.45              | 0.97              | 4.87              | -1.28             |
| 143   | 162  | -0.72             | -2.52             | 1.32              | 1.25              | 6.27              | 0.07              | 355  | 0.07              | 1.42              | 1.36              | -0.34             | -1.70             | 0.07              |
|       | 18   | -0.72             | -2.52             | 2.05              | -0.57             | -2.83             | -0.10             | 286  | 0.07              | 1.42              | 2.09              | 1.31              | 6.54              | -0.10             |
| 144   | 171  | -0.72             | -2.53             | 1.76              | -1.30             | -6.50             | -0.07             | 358  | 0.09              | 1.49              | 2.00              | 0.35              | 1.77              | -0.07             |
|       | 145  | -0.72             | -2.53             | 2.43              | 0.64              | 3.18              | 0.04              | 149  | 0.09              | 1.49              | 2.67              | -1.21             | -6.04             | 0.04              |
| 145   | 164  | -1.48             | -5.43             | 7.22              | 0.37              | 1.86              | -0.12             | 361  | 0.08              | 2.38              | 7.50              | -0.84             | -4.19             | -0.12             |
|       | 11   | -1.48             | -5.43             | 5.89              | -0.82             | -4.08             | 0.09              | 266  | 0.08              | 2.38              | 6.16              | 0.17              | 0.85              | 0.09              |
| 146   | 181  | -0.12             | -1.58             | 5.35              | 3.19              | 15.95             | 0.11              | 362  | 0.25              | 0.29              | 5.25              | -0.76             | -3.79             | 0.11              |
|       | 13   | -0.12             | -1.58             | 3.77              | -3.51             | -17.54            | -0.14             | 277  | 0.25              | 0.29              | 3.67              | 0.61              | 3.03              | -0.14             |
| 147   | 167  | -1.51             | -5.54             | 7.63              | -0.52             | -2.61             | 0.14              | 363  | 0.08              | 2.44              | 8.03              | 0.87              | 4.34              | 0.14              |
|       | 12   | -1.51             | -5.54             | 6.23              | 0.90              | 4.52              | -0.17             | 280  | 0.08              | 2.44              | 6.63              | -0.15             | -0.75             | -0.17             |
| 148   | 183  | -0.12             | -1.57             | 5.71              | -3.19             | -15.93            | -0.09             | 364  | 0.25              | 0.26              | 5.70              | 0.72              | 3.62              | -0.09             |
|       | 17   | -0.12             | -1.57             | 4.14              | 3.42              | 17.12             | 0.06              | 282  | 0.25              | 0.26              | 4.13              | -0.58             | -2.90             | 0.06              |
| 149   | 182  | -0.41             | -0.70             | 0.69              | -0.55             | -2.73             | 0.17              | 365  | -0.20             | 0.34              | 1.70              | 0.13              | 0.65              | 0.17              |
|       | 16   | -0.41             | -0.70             | 1.72              | -0.41             | -2.06             | -0.20             | 42   | -0.20             | 0.34              | 2.73              | -0.69             | -3.46             | -0.20             |
| 150   | 185  | -0.08             | -0.42             | -0.19             | -0.01             | -0.03             | -0.06             | 368  | -0.07             | -0.40             | -0.47             | 0.01              | 0.03              | -0.06             |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 15   | -0.08             | -0.42             | -0.17             | -0.31             | -1.54             | 0.03              | 63   | -0.07             | -0.40             | -0.45             | -0.41             | -2.07             | 0.03              |
| 151   | 217  | 0.32              | -0.05             | -0.16             | -4.72             | -1.37             | -1.40             | 218  | 0.31              | -0.14             | -0.46             | -6.24             | -3.59             | 0.82              |
|       | 213  | 1.92              | 0.27              | 0.12              | -6.35             | -1.57             | -1.77             | 214  | 1.91              | 0.18              | -0.17             | -9.42             | 0.56              | 0.46              |
| 152   | 218  | 0.62              | -0.08             | -0.11             | -6.55             | -3.65             | -0.17             | 219  | 0.61              | -0.14             | -0.29             | -2.40             | -1.89             | 2.92              |
|       | 214  | 2.15              | 0.23              | 0.07              | -9.03             | 0.64              | 1.63              | 215  | 2.14              | 0.17              | -0.10             | -7.25             | -4.06             | 4.72              |
| 153   | 219  | 0.76              | -0.10             | -0.03             | -1.05             | -1.62             | 7.69              | 220  | 0.71              | -0.33             | -0.12             | 5.39              | -14.32            | 3.82              |
|       | 215  | 2.25              | 0.20              | 0.14              | -10.53            | -4.72             | 3.74              | 2    | 2.20              | -0.04             | 0.04              | 32.22             | 26.87             | -0.14             |
| 154   | 3    | -0.33             | -0.78             | -0.87             | 4.61              | -0.36             | -1.65             | 221  | -0.17             | 0.03              | -0.68             | -2.82             | -1.44             | -2.35             |
|       | 216  | -0.37             | -0.79             | -1.20             | 7.92              | 2.93              | -0.55             | 217  | -0.21             | 0.02              | -1.01             | -3.91             | -2.37             | -1.24             |
| 155   | 221  | -0.46             | -0.04             | -0.53             | -3.15             | -1.51             | -1.85             | 222  | -0.47             | -0.09             | -0.58             | -3.07             | -2.54             | -0.04             |
|       | 217  | 0.39              | 0.13              | -0.49             | -4.96             | -2.58             | -1.45             | 218  | 0.38              | 0.08              | -0.54             | -6.06             | -2.67             | 0.36              |
| 156   | 222  | -0.47             | -0.08             | -0.26             | -2.99             | -2.52             | -0.08             | 223  | -0.49             | -0.16             | -0.33             | -2.28             | -2.85             | 1.37              |
|       | 218  | 0.68              | 0.15              | -0.20             | -6.36             | -2.73             | 0.98              | 219  | 0.66              | 0.07              | -0.27             | -2.81             | -3.98             | 2.43              |
| 157   | 223  | -0.49             | -0.16             | -0.05             | -2.03             | -2.80             | 0.80              | 4    | -0.50             | -0.21             | -0.14             | 5.25              | 2.65              | -0.90             |
|       | 219  | 0.82              | 0.11              | -0.01             | -1.46             | -3.71             | 2.97              | 220  | 0.81              | 0.05              | -0.10             | 6.02              | -11.17            | 1.26              |
| 158   | 227  | 0.61              | -0.14             | 0.26              | -2.40             | -1.89             | -2.92             | 228  | 0.62              | -0.08             | 0.10              | -6.57             | -3.66             | 0.16              |
|       | 224  | 2.14              | 0.17              | 0.10              | -7.25             | -4.06             | -4.73             | 225  | 2.15              | 0.22              | -0.06             | -9.05             | 0.64              | -1.64             |
| 159   | 228  | 0.31              | -0.14             | 0.44              | -6.26             | -3.60             | -0.83             | 229  | 0.33              | -0.05             | 0.15              | -4.74             | -1.36             | 1.40              |
|       | 225  | 1.93              | 0.19              | 0.17              | -9.44             | 0.56              | -0.47             | 226  | 1.95              | 0.27              | -0.12             | -6.38             | -1.59             | 1.76              |
| 160   | 229  | -0.31             | -0.15             | 0.67              | -3.70             | -1.16             | 2.99              | 230  | -0.34             | -0.33             | 0.25              | 6.91              | -2.33             | -0.55             |
|       | 226  | 1.69              | 0.25              | 0.32              | -8.97             | -2.11             | 2.39              | 5    | 1.66              | 0.08              | -0.11             | 23.14             | 8.99              | -1.15             |
| 161   | 4    | -0.50             | -0.21             | 0.12              | 5.26              | 2.65              | 0.89              | 231  | -0.49             | -0.16             | 0.03              | -2.04             | -2.80             | -0.81             |
|       | 220  | 0.82              | 0.06              | 0.10              | 6.00              | -11.17            | -1.26             | 227  | 0.83              | 0.10              | 0.01              | -1.45             | -3.71             | -2.96             |
| 162   | 231  | -0.49             | -0.17             | 0.31              | -2.28             | -2.85             | -1.38             | 232  | -0.47             | -0.08             | 0.25              | -3.00             | -2.54             | 0.07              |
|       | 227  | 0.66              | 0.07              | 0.25              | -2.82             | -3.99             | -2.43             | 228  | 0.68              | 0.15              | 0.19              | -6.38             | -2.74             | -0.98             |
| 163   | 232  | -0.48             | -0.09             | 0.57              | -3.09             | -2.56             | 0.04              | 233  | -0.47             | -0.03             | 0.53              | -3.17             | -1.51             | 1.85              |
|       | 228  | 0.38              | 0.08              | 0.54              | -6.08             | -2.68             | -0.37             | 229  | 0.39              | 0.14              | 0.49              | -4.99             | -2.60             | 1.45              |
| 164   | 233  | -0.17             | 0.03              | 0.68              | -2.84             | -1.44             | 2.35              | 6    | -0.34             | -0.78             | 0.88              | 4.64              | -0.42             | 1.66              |
|       | 229  | -0.21             | 0.02              | 1.02              | -3.95             | -2.39             | 1.24              | 230  | -0.38             | -0.79             | 1.22              | 7.98              | 3.02              | 0.55              |
| 165   | 235  | -1.12             | -0.17             | 0.15              | -0.60             | 0.03              | -1.46             | 236  | -1.12             | -0.19             | 0.16              | -1.25             | -0.06             | 0.12              |
|       | 231  | -0.44             | -0.03             | 0.37              | -2.21             | -2.49             | -1.55             | 232  | -0.45             | -0.05             | 0.38              | -2.97             | -2.36             | 0.04              |
| 166   | 236  | -0.83             | -0.10             | 0.35              | -1.12             | -0.03             | 0.14              | 237  | -0.86             | -0.26             | 0.44              | -1.42             | 0.00              | 2.11              |
|       | 232  | -0.47             | -0.03             | 0.70              | -3.05             | -2.38             | 0.06              | 233  | -0.50             | -0.19             | 0.80              | -3.31             | -2.18             | 2.02              |
| 167   | 237  | -0.39             | -0.07             | 0.59              | -1.26             | 0.03              | 2.61              | 238  | -0.49             | -0.60             | 0.55              | 1.80              | -1.06             | 1.65              |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 233  | -0.21             | -0.03             | 0.95              | -2.98             | -2.12             | 2.41              | 6    | -0.32             | -0.57             | 0.90              | 5.12              | 1.97              | 1.45              |
| 168   | 7    | -2.04             | -0.16             | -0.07             | 0.12              | 1.71              | 0.15              | 239  | -2.05             | -0.22             | 0.02              | 0.70              | 3.91              | -0.76             |
|       | 234  | -1.19             | 0.01              | 0.05              | 1.48              | -0.90             | -0.70             | 235  | -1.20             | -0.05             | 0.15              | -0.64             | -0.13             | -1.60             |
| 169   | 239  | -1.92             | -0.18             | -0.04             | 0.48              | 3.87              | -0.74             | 240  | -1.95             | -0.30             | 0.02              | 1.28              | 5.96              | 0.37              |
|       | 235  | -1.08             | -0.02             | 0.30              | -0.64             | -0.13             | -1.31             | 236  | -1.11             | -0.13             | 0.36              | -1.24             | 0.01              | -0.20             |
| 170   | 240  | -1.40             | -0.17             | 0.05              | 0.80              | 5.86              | -0.13             | 241  | -1.43             | -0.32             | 0.09              | 1.23              | 4.85              | 1.50              |
|       | 236  | -0.81             | -0.05             | 0.54              | -1.11             | 0.04              | 0.32              | 237  | -0.84             | -0.20             | 0.58              | -1.56             | -0.71             | 1.95              |
| 171   | 241  | -0.45             | -0.01             | 0.26              | 0.08              | 4.62              | 1.46              | 8    | -0.52             | -0.34             | 0.03              | 0.24              | -1.36             | 0.73              |
|       | 237  | -0.37             | 0.00              | 0.72              | -1.41             | -0.68             | 2.64              | 238  | -0.44             | -0.32             | 0.49              | 2.31              | 1.52              | 1.91              |
| 172   | 243  | -0.85             | -0.25             | -0.45             | -1.41             | -0.01             | -2.10             | 244  | -0.81             | -0.10             | -0.36             | -1.11             | -0.03             | -0.15             |
|       | 221  | -0.49             | -0.18             | -0.79             | -3.28             | -2.15             | -2.02             | 222  | -0.46             | -0.02             | -0.70             | -3.04             | -2.36             | -0.06             |
| 173   | 244  | -1.11             | -0.18             | -0.17             | -1.25             | -0.05             | -0.13             | 245  | -1.11             | -0.16             | -0.17             | -0.60             | 0.03              | 1.45              |
|       | 222  | -0.44             | -0.05             | -0.38             | -2.95             | -2.34             | -0.05             | 223  | -0.44             | -0.03             | -0.37             | -2.21             | -2.48             | 1.54              |
| 174   | 245  | -1.23             | -0.18             | -0.03             | -0.61             | 0.03              | 2.02              | 234  | -1.23             | -0.16             | -0.06             | 1.42              | -1.23             | 0.54              |
|       | 223  | -0.44             | -0.02             | -0.09             | -1.96             | -2.43             | 1.81              | 4    | -0.44             | 0.00              | -0.13             | 5.01              | 1.46              | 0.33              |
| 175   | 9    | -0.51             | -0.34             | -0.03             | 0.26              | -1.34             | -0.74             | 246  | -0.44             | 0.00              | -0.27             | 0.04              | 4.56              | -1.46             |
|       | 242  | -0.43             | -0.32             | -0.48             | 2.28              | 1.50              | -1.90             | 243  | -0.37             | 0.01              | -0.72             | -1.38             | -0.66             | -2.63             |
| 176   | 246  | -1.41             | -0.32             | -0.09             | 1.26              | 4.80              | -1.50             | 247  | -1.38             | -0.17             | -0.06             | 0.76              | 5.81              | 0.13              |
|       | 243  | -0.83             | -0.20             | -0.57             | -1.54             | -0.69             | -1.95             | 244  | -0.80             | -0.05             | -0.54             | -1.10             | 0.04              | -0.33             |
| 177   | 247  | -1.93             | -0.30             | -0.03             | 1.30              | 5.92              | -0.37             | 248  | -1.90             | -0.18             | 0.04              | 0.46              | 3.84              | 0.74              |
|       | 244  | -1.10             | -0.13             | -0.36             | -1.23             | 0.02              | 0.19              | 245  | -1.07             | -0.01             | -0.30             | -0.63             | -0.13             | 1.30              |
| 178   | 248  | -2.04             | -0.22             | -0.03             | 0.72              | 3.89              | 0.75              | 7    | -2.03             | -0.15             | 0.07              | 0.11              | 1.71              | -0.15             |
|       | 245  | -1.20             | -0.05             | -0.15             | -0.64             | -0.13             | 1.59              | 234  | -1.18             | 0.01              | -0.05             | 1.48              | -0.90             | 0.69              |
| 179   | 254  | 0.65              | 0.39              | -0.20             | 0.17              | 1.10              | -0.42             | 255  | 0.45              | -0.61             | -2.51             | 0.08              | -1.21             | 0.12              |
|       | 249  | 2.33              | 0.73              | 1.44              | -0.14             | -1.40             | -0.65             | 250  | 2.13              | -0.27             | -0.87             | -0.17             | 1.91              | -0.11             |
| 180   | 255  | 2.58              | 1.84              | -1.87             | 0.15              | -1.20             | -0.54             | 256  | 1.13              | -5.44             | -0.90             | -1.24             | -1.00             | -0.69             |
|       | 250  | 5.10              | 2.34              | 1.07              | -0.38             | 1.87              | 1.46              | 2    | 3.64              | -4.94             | 2.04              | -1.25             | -7.71             | 1.30              |
| 181   | 256  | 1.13              | -5.44             | 0.94              | -1.24             | -1.00             | 0.67              | 257  | 2.59              | 1.84              | 1.88              | 0.14              | -1.20             | 0.55              |
|       | 2    | 3.71              | -4.92             | -2.01             | -1.30             | -7.72             | -1.32             | 251  | 5.17              | 2.35              | -1.07             | -0.37             | 1.88              | -1.45             |
| 182   | 257  | 0.45              | -0.62             | 2.53              | 0.07              | -1.22             | -0.12             | 258  | 0.65              | 0.40              | 0.22              | 0.18              | 1.12              | 0.42              |
|       | 251  | 2.13              | -0.28             | 0.87              | -0.17             | 1.92              | 0.11              | 252  | 2.33              | 0.73              | -1.44             | -0.15             | -1.42             | 0.65              |
| 183   | 258  | 0.82              | -0.06             | 0.05              | 0.31              | 1.15              | 0.45              | 259  | 0.48              | -1.74             | -0.33             | -0.86             | -4.05             | 0.39              |
|       | 252  | -1.01             | -0.43             | 2.28              | -0.11             | -1.42             | 0.32              | 5    | -1.34             | -2.11             | 1.90              | 0.82              | 4.35              | 0.25              |
| 184   | 11   | -0.50             | -2.21             | -0.06             | -1.67             | -8.35             | 0.12              | 260  | 0.10              | 0.80              | -0.44             | 0.39              | 1.93              | 0.10              |



TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 253  | -0.06             | -2.12             | -0.77             | 1.01              | 5.31              | -0.64             | 254  | 0.54              | 0.89              | -1.15             | -0.20             | -1.41             | -0.66             |
| 185   | 260  | 0.22              | -0.47             | -2.26             | 0.39              | 1.93              | -0.37             | 261  | 0.35              | 0.21              | -0.75             | -0.07             | -0.37             | -0.59             |
|       | 254  | 0.51              | -0.42             | -1.30             | -0.33             | -1.44             | -0.13             | 255  | 0.65              | 0.27              | 0.21              | 0.28              | -0.19             | -0.34             |
| 186   | 261  | 0.17              | 2.22              | -2.37             | -0.07             | -0.37             | -0.84             | 165  | -1.65             | -6.87             | -4.14             | -0.07             | -0.35             | -0.33             |
|       | 255  | 2.79              | 2.75              | 0.85              | 0.35              | -0.18             | -0.55             | 256  | 0.97              | -6.35             | -0.92             | -1.41             | -1.84             | -0.04             |
| 187   | 165  | -1.65             | -6.88             | 4.15              | -0.07             | -0.35             | 0.32              | 262  | 0.17              | 2.23              | 2.41              | -0.08             | -0.40             | 0.83              |
|       | 256  | 0.97              | -6.35             | 0.91              | -1.40             | -1.84             | 0.04              | 257  | 2.79              | 2.75              | -0.84             | 0.35              | -0.16             | 0.55              |
| 188   | 262  | 0.36              | 0.23              | 0.78              | -0.08             | -0.40             | 0.59              | 263  | 0.21              | -0.50             | 2.29              | 0.41              | 2.05              | 0.38              |
|       | 257  | 0.65              | 0.29              | -0.19             | 0.28              | -0.18             | 0.34              | 258  | 0.51              | -0.44             | 1.32              | -0.35             | -1.52             | 0.12              |
| 189   | 263  | 0.09              | 0.82              | 0.52              | 0.41              | 2.05              | -0.13             | 12   | -0.51             | -2.20             | 0.10              | -1.77             | -8.86             | -0.16             |
|       | 258  | 0.51              | 0.90              | 1.14              | -0.22             | -1.49             | 0.69              | 259  | -0.09             | -2.12             | 0.72              | 1.07              | 5.58              | 0.66              |
| 190   | 264  | -0.50             | -1.31             | 1.44              | 0.90              | 2.20              | -1.31             | 265  | -0.29             | -0.31             | 1.67              | 1.03              | 2.05              | -0.64             |
|       | 216  | -1.06             | -1.43             | 0.07              | 1.97              | 10.01             | 0.28              | 3    | -0.86             | -0.42             | 0.30              | 0.89              | 4.36              | 0.95              |
| 191   | 11   | 0.02              | -1.59             | 2.21              | -0.38             | -1.88             | -0.30             | 266  | 0.13              | -1.06             | 3.26              | -0.84             | -4.22             | 0.05              |
|       | 253  | 0.28              | -1.54             | -0.32             | -1.23             | 1.39              | 0.25              | 264  | 0.38              | -1.01             | 0.74              | 1.38              | 2.23              | 0.60              |
| 192   | 266  | 0.00              | -0.63             | 1.36              | -0.84             | -4.22             | 0.95              | 13   | 0.15              | 0.11              | 1.59              | 0.61              | 3.04              | 0.29              |
|       | 264  | -0.18             | -0.66             | 0.49              | 0.89              | 2.13              | -0.77             | 265  | -0.03             | 0.08              | 0.73              | 0.86              | 1.23              | -1.43             |
| 193   | 268  | -0.47             | -0.45             | 0.11              | 0.07              | -0.56             | 0.26              | 269  | -0.47             | -0.41             | 0.45              | -0.19             | -0.41             | 0.14              |
|       | 241  | -1.37             | -0.63             | -0.21             | -0.23             | -2.61             | 0.64              | 240  | -1.36             | -0.59             | 0.13              | -0.87             | -4.23             | 0.52              |
| 194   | 269  | -0.79             | -0.49             | -0.02             | -0.26             | -0.42             | 0.43              | 270  | -0.74             | -0.24             | 0.26              | 0.02              | -0.58             | 0.17              |
|       | 240  | -1.84             | -0.70             | -0.34             | -0.41             | -4.13             | 0.09              | 239  | -1.79             | -0.45             | -0.06             | -0.59             | -2.81             | -0.16             |
| 195   | 270  | -0.93             | -0.30             | -0.03             | -0.10             | -0.60             | 0.23              | 271  | -0.88             | -0.05             | 0.08              | 0.15              | -0.56             | 0.15              |
|       | 239  | -1.89             | -0.50             | -0.20             | -0.23             | -2.74             | -0.16             | 7    | -1.84             | -0.24             | -0.09             | -0.17             | -1.42             | -0.24             |
| 196   | 14   | 0.38              | 0.09              | 0.71              | 0.78              | 3.91              | 0.53              | 65   | 0.22              | -0.69             | 1.77              | 0.43              | 2.17              | 0.34              |
|       | 267  | 0.39              | 0.09              | -0.49             | -0.37             | -2.70             | 0.21              | 268  | 0.23              | -0.68             | 0.57              | 0.19              | 0.16              | 0.02              |
| 197   | 65   | 0.02              | -0.08             | 0.27              | 0.43              | 2.17              | 0.03              | 64   | -0.05             | -0.41             | 0.48              | 0.42              | 2.09              | -0.01             |
|       | 268  | -0.39             | -0.16             | 0.33              | 0.21              | 0.16              | 0.27              | 269  | -0.46             | -0.49             | 0.53              | -0.24             | -0.66             | 0.23              |
| 198   | 64   | -0.08             | -0.33             | 0.06              | 0.42              | 2.09              | 0.10              | 63   | -0.05             | -0.21             | 0.17              | 0.31              | 1.53              | 0.13              |
|       | 269  | -0.81             | -0.47             | 0.06              | -0.31             | -0.67             | 0.24              | 270  | -0.79             | -0.36             | 0.17              | 0.02              | -0.55             | 0.27              |
| 199   | 63   | -0.05             | -0.23             | -0.10             | 0.31              | 1.53              | 0.15              | 15   | -0.03             | -0.13             | 0.11              | 0.24              | 1.20              | -0.02             |
|       | 270  | -0.98             | -0.42             | -0.13             | -0.09             | -0.57             | 0.23              | 271  | -0.96             | -0.32             | 0.08              | 0.18              | -0.45             | 0.06              |
| 200   | 272  | -0.73             | -0.24             | -0.27             | 0.02              | -0.59             | -0.17             | 273  | -0.78             | -0.49             | 0.02              | -0.28             | -0.44             | -0.43             |
|       | 248  | -1.77             | -0.44             | 0.05              | -0.62             | -2.81             | 0.16              | 247  | -1.82             | -0.70             | 0.34              | -0.37             | -4.09             | -0.09             |
| 201   | 273  | -0.46             | -0.41             | -0.46             | -0.19             | -0.43             | -0.14             | 274  | -0.46             | -0.45             | -0.11             | 0.04              | -0.58             | -0.27             |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 247  | -1.34             | -0.59             | -0.12             | -0.91             | -4.20             | -0.52             | 246  | -1.34             | -0.62             | 0.23              | -0.19             | -2.58             | -0.64             |
| 202   | 274  | -0.03             | -0.45             | -0.35             | 0.03              | -0.59             | -0.05             | 275  | 0.13              | 0.34              | -0.47             | 0.36              | 0.96              | 0.24              |
|       | 246  | -0.56             | -0.56             | -0.03             | -0.51             | -2.64             | -0.93             | 9    | -0.40             | 0.23              | -0.14             | -0.44             | -1.17             | -0.64             |
| 203   | 15   | -0.03             | -0.13             | -0.12             | 0.24              | 1.20              | 0.00              | 44   | -0.05             | -0.24             | 0.09              | 0.30              | 1.51              | -0.17             |
|       | 271  | -0.96             | -0.32             | -0.09             | 0.18              | -0.45             | -0.06             | 272  | -0.98             | -0.42             | 0.12              | -0.09             | -0.58             | -0.23             |
| 204   | 44   | -0.05             | -0.22             | -0.18             | 0.30              | 1.51              | -0.14             | 43   | -0.08             | -0.33             | -0.05             | 0.41              | 2.05              | -0.11             |
|       | 272  | -0.78             | -0.36             | -0.18             | 0.03              | -0.55             | -0.27             | 273  | -0.80             | -0.48             | -0.06             | -0.33             | -0.72             | -0.24             |
| 205   | 43   | -0.05             | -0.42             | -0.49             | 0.41              | 2.05              | -0.02             | 42   | 0.02              | -0.07             | -0.25             | 0.38              | 1.88              | -0.05             |
|       | 273  | -0.45             | -0.50             | -0.53             | -0.25             | -0.70             | -0.22             | 274  | -0.38             | -0.15             | -0.30             | 0.20              | 0.24              | -0.25             |
| 206   | 42   | 0.24              | -0.70             | -1.81             | 0.38              | 1.88              | -0.24             | 16   | 0.40              | 0.11              | -0.71             | 0.93              | 4.63              | -0.43             |
|       | 274  | 0.25              | -0.70             | -0.55             | 0.19              | 0.24              | -0.10             | 275  | 0.41              | 0.11              | 0.55              | -0.43             | -3.01             | -0.28             |
| 207   | 276  | 0.04              | -0.39             | 0.46              | 0.07              | 0.76              | -0.22             | 275  | 0.19              | 0.40              | 0.62              | -0.67             | 1.94              | -0.71             |
|       | 242  | -0.20             | -0.44             | -0.13             | 0.69              | 2.43              | 0.95              | 9    | -0.04             | 0.35              | 0.03              | -0.30             | -1.54             | 0.46              |
| 208   | 13   | -0.10             | 0.48              | 0.27              | 0.61              | 3.04              | -1.59             | 277  | -0.27             | -0.36             | 0.03              | -0.48             | -2.40             | -1.78             |
|       | 265  | -0.30             | 0.44              | 0.04              | 1.12              | 1.28              | 0.28              | 276  | -0.46             | -0.40             | -0.19             | 0.13              | 2.40              | 0.09              |
| 209   | 277  | -0.27             | -0.36             | 1.04              | -0.48             | -2.40             | -0.31             | 16   | -0.17             | 0.12              | 1.18              | 1.16              | 5.81              | 0.11              |
|       | 276  | -0.37             | -0.38             | -0.65             | 0.41              | 2.46              | -1.35             | 275  | -0.28             | 0.10              | -0.51             | -1.80             | -3.68             | -0.94             |
| 210   | 278  | -0.49             | -1.32             | 1.47              | -0.89             | -2.22             | 1.29              | 279  | -0.28             | -0.31             | 1.71              | -1.01             | -2.02             | 0.65              |
|       | 230  | -1.06             | -1.44             | 0.06              | -2.03             | -10.03            | -0.30             | 6    | -0.86             | -0.43             | 0.30              | -0.85             | -4.40             | -0.94             |
| 211   | 12   | 0.06              | -1.58             | 2.27              | 0.46              | 2.31              | 0.29              | 280  | 0.15              | -1.11             | 3.38              | 0.84              | 4.18              | -0.04             |
|       | 259  | 0.33              | -1.52             | -0.41             | 1.13              | -1.69             | -0.24             | 278  | 0.42              | -1.06             | 0.70              | -1.36             | -2.14             | -0.57             |
| 212   | 280  | 0.01              | -0.62             | 1.38              | 0.84              | 4.18              | -0.92             | 17   | 0.15              | 0.10              | 1.63              | -0.56             | -2.78             | -0.28             |
|       | 278  | -0.16             | -0.65             | 0.47              | -0.85             | -2.03             | 0.76              | 279  | -0.01             | 0.07              | 0.72              | -0.86             | -1.27             | 1.40              |
| 213   | 281  | 0.02              | -0.39             | 0.48              | -0.09             | -0.76             | 0.23              | 267  | 0.17              | 0.39              | 0.62              | 0.66              | -1.87             | 0.71              |
|       | 238  | -0.19             | -0.43             | -0.11             | -0.75             | -2.45             | -0.95             | 8    | -0.04             | 0.35              | 0.02              | 0.32              | 1.48              | -0.47             |
| 214   | 17   | -0.09             | 0.48              | 0.25              | -0.56             | -2.78             | 1.52              | 282  | -0.27             | -0.39             | 0.07              | 0.45              | 2.23              | 1.70              |
|       | 279  | -0.26             | 0.44              | 0.00              | -1.08             | -1.32             | -0.23             | 281  | -0.44             | -0.42             | -0.19             | -0.16             | -2.31             | -0.04             |
| 215   | 282  | -0.17             | -0.45             | 0.86              | 0.45              | 2.23              | 0.34              | 14   | -0.04             | 0.21              | 1.25              | -1.10             | -5.51             | -0.06             |
|       | 281  | -0.29             | -0.47             | -0.68             | -0.41             | -2.36             | 1.30              | 267  | -0.16             | 0.19              | -0.29             | 1.73              | 3.49              | 0.91              |
| 216   | 287  | 0.00              | 0.00              | 0.00              | -2.16             | -3.01             | 2.18              | 288  | 0.00              | 0.00              | 0.00              | -3.49             | -5.04             | 1.55              |
|       | 283  | 0.00              | 0.00              | 0.00              | 0.58              | 3.93              | 1.18              | 284  | 0.00              | 0.00              | 0.00              | 0.53              | 6.88              | 0.56              |
| 217   | 288  | 0.00              | 0.00              | 0.00              | -3.18             | -4.98             | 1.38              | 289  | 0.00              | 0.00              | 0.00              | -2.51             | -5.54             | 0.94              |
|       | 284  | 0.00              | 0.00              | 0.00              | -0.27             | 6.72              | 0.78              | 285  | 0.00              | 0.00              | 0.00              | 1.89              | 8.59              | 0.33              |
| 218   | 289  | 0.00              | 0.00              | 0.00              | -1.77             | -5.40             | 1.11              | 25   | 0.00              | 0.00              | 0.00              | -2.53             | -7.23             | 0.43              |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 285  | 0.00  | 0.00  | 0.00  | -0.62 | 8.08  | 0.53  | 19   | 0.00  | 0.00  | 0.00  | 6.05  | 11.79 | -0.15 |
| 219   | 290  | 0.00  | 0.00  | 0.00  | 8.96  | 2.12  | -1.02 | 291  | 0.00  | 0.00  | 0.00  | -1.33 | -0.53 | -0.85 |
|       | 286  | 0.00  | 0.00  | 0.00  | 8.55  | 1.03  | 1.13  | 287  | 0.00  | 0.00  | 0.00  | -2.49 | -3.17 | 1.30  |
| 220   | 291  | 0.00  | 0.00  | 0.00  | -1.07 | -0.48 | -0.48 | 292  | 0.00  | 0.00  | 0.00  | -2.85 | -1.22 | -0.38 |
|       | 287  | 0.00  | 0.00  | 0.00  | -2.18 | -3.10 | 1.02  | 288  | 0.00  | 0.00  | 0.00  | -3.43 | -4.77 | 1.11  |
| 221   | 292  | 0.00  | 0.00  | 0.00  | -2.66 | -1.18 | -0.16 | 293  | 0.00  | 0.00  | 0.00  | -1.73 | -1.32 | -0.22 |
|       | 288  | 0.00  | 0.00  | 0.00  | -3.13 | -4.70 | 0.82  | 289  | 0.00  | 0.00  | 0.00  | -2.49 | -5.43 | 0.76  |
| 222   | 293  | 0.00  | 0.00  | 0.00  | -1.86 | -1.35 | 0.17  | 29   | 0.00  | 0.00  | 0.00  | -0.99 | -1.36 | 0.06  |
|       | 289  | 0.00  | 0.00  | 0.00  | -1.75 | -5.28 | 0.30  | 25   | 0.00  | 0.00  | 0.00  | -2.15 | -5.32 | 0.18  |
| 223   | 294  | 0.00  | 0.00  | 0.00  | 6.21  | 3.48  | -1.21 | 295  | 0.00  | 0.00  | 0.00  | -1.98 | -2.62 | -1.89 |
|       | 290  | 0.00  | 0.00  | 0.00  | 8.39  | -0.73 | 0.55  | 291  | 0.00  | 0.00  | 0.00  | -1.28 | -0.31 | -0.13 |
| 224   | 295  | 0.00  | 0.00  | 0.00  | -1.33 | -2.49 | -1.45 | 296  | 0.00  | 0.00  | 0.00  | -2.39 | -3.23 | -1.24 |
|       | 291  | 0.00  | 0.00  | 0.00  | -1.03 | -0.26 | -0.42 | 292  | 0.00  | 0.00  | 0.00  | -2.87 | -1.34 | -0.21 |
| 225   | 296  | 0.00  | 0.00  | 0.00  | -2.03 | -3.16 | -1.13 | 297  | 0.00  | 0.00  | 0.00  | -1.76 | -3.80 | -0.82 |
|       | 292  | 0.00  | 0.00  | 0.00  | -2.69 | -1.30 | -0.23 | 293  | 0.00  | 0.00  | 0.00  | -1.77 | -1.51 | 0.08  |
| 226   | 297  | 0.00  | 0.00  | 0.00  | -1.05 | -3.65 | -0.73 | 33   | 0.00  | 0.00  | 0.00  | -1.30 | -4.50 | -0.39 |
|       | 293  | 0.00  | 0.00  | 0.00  | -1.90 | -1.54 | 0.01  | 29   | 0.00  | 0.00  | 0.00  | -1.01 | -1.46 | 0.34  |
| 227   | 20   | 0.00  | 0.00  | 0.00  | -1.31 | 6.03  | 0.08  | 298  | 0.00  | 0.00  | 0.00  | 2.47  | 5.42  | -1.00 |
|       | 294  | 0.00  | 0.00  | 0.00  | 4.69  | -4.14 | -1.34 | 295  | 0.00  | 0.00  | 0.00  | -1.94 | -2.39 | -2.42 |
| 228   | 298  | 0.00  | 0.00  | 0.00  | 0.31  | 4.99  | -0.81 | 299  | 0.00  | 0.00  | 0.00  | 1.38  | 7.49  | -0.44 |
|       | 295  | 0.00  | 0.00  | 0.00  | -1.28 | -2.26 | -1.95 | 296  | 0.00  | 0.00  | 0.00  | -2.43 | -3.41 | -1.58 |
| 229   | 299  | 0.00  | 0.00  | 0.00  | -0.15 | 7.18  | -0.64 | 300  | 0.00  | 0.00  | 0.00  | 2.43  | 9.03  | -0.34 |
|       | 296  | 0.00  | 0.00  | 0.00  | -2.06 | -3.34 | -1.41 | 297  | 0.00  | 0.00  | 0.00  | -1.74 | -3.68 | -1.11 |
| 230   | 300  | 0.00  | 0.00  | 0.00  | -0.03 | 8.54  | -0.24 | 21   | 0.00  | 0.00  | 0.00  | 5.76  | 12.40 | 0.23  |
|       | 297  | 0.00  | 0.00  | 0.00  | -1.02 | -3.54 | -1.44 | 33   | 0.00  | 0.00  | 0.00  | -1.38 | -4.86 | -0.97 |
| 231   | 301  | 0.14  | -0.33 | 1.07  | 0.05  | 0.23  | -0.17 | 302  | 0.06  | -0.75 | 0.47  | 0.09  | 0.44  | -0.17 |
|       | 283  | 0.14  | -0.33 | 0.46  | -0.35 | -1.77 | 0.14  | 284  | 0.06  | -0.75 | -0.14 | -0.66 | -3.29 | 0.14  |
| 232   | 302  | 0.12  | -1.15 | -2.13 | 0.09  | 0.44  | -0.38 | 303  | 0.29  | -0.32 | -2.66 | -0.47 | -2.35 | -0.38 |
|       | 284  | 0.12  | -1.15 | -0.68 | -0.66 | -3.29 | 0.36  | 285  | 0.29  | -0.32 | -1.22 | -0.72 | -3.59 | 0.36  |
| 233   | 303  | -0.02 | 1.54  | -6.02 | -0.47 | -2.35 | 1.07  | 163  | -1.52 | -5.96 | -5.37 | 2.26  | 11.30 | 1.07  |
|       | 285  | -0.02 | 1.54  | -2.50 | -0.72 | -3.59 | -1.10 | 19   | -1.52 | -5.96 | -1.85 | -1.63 | -8.15 | -1.10 |
| 234   | 304  | 0.28  | -0.32 | 0.20  | -0.48 | -2.41 | 0.37  | 305  | 0.11  | -1.15 | -0.45 | 0.16  | 0.78  | 0.37  |
|       | 22   | 0.28  | -0.32 | -0.93 | -0.34 | -1.71 | -0.40 | 23   | 0.11  | -1.15 | -1.59 | -0.37 | -1.85 | -0.40 |
| 235   | 305  | 0.12  | -1.20 | -3.38 | 0.16  | 0.78  | 0.15  | 306  | 0.32  | -0.21 | -3.92 | -0.25 | -1.26 | 0.15  |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 23   | 0.12              | -1.20             | -2.19             | -0.37             | -1.85             | -0.17             | 24   | 0.32              | -0.21             | -2.73             | 0.29              | 1.46              | -0.17             |
| 236   | 306  | 0.06              | 0.98              | -7.66             | -0.25             | -1.26             | 0.32              | 164  | -1.26             | -5.60             | -7.04             | 1.00              | 4.98              | 0.32              |
|       | 24   | 0.06              | 0.98              | -3.67             | 0.29              | 1.46              | -0.35             | 11   | -1.26             | -5.60             | -3.05             | -0.43             | -2.15             | -0.35             |
| 237   | 310  | 0.01              | -1.06             | -3.70             | -0.26             | -1.31             | 0.09              | 311  | 0.23              | 0.01              | -3.49             | 0.18              | 0.89              | 0.09              |
|       | 307  | 0.01              | -1.06             | -4.96             | 0.14              | 0.68              | -0.12             | 308  | 0.23              | 0.01              | -4.75             | -0.08             | -0.40             | -0.12             |
| 238   | 311  | 0.27              | -1.38             | -3.53             | 0.18              | 0.89              | -0.25             | 312  | 0.49              | -0.27             | -3.33             | -0.55             | -2.74             | -0.25             |
|       | 308  | 0.27              | -1.38             | -0.76             | -0.08             | -0.40             | 0.23              | 309  | 0.49              | -0.27             | -0.55             | 0.15              | 0.73              | 0.23              |
| 239   | 312  | 0.35              | 4.57              | -2.90             | -0.55             | -2.74             | 1.15              | 166  | -2.77             | -11.07            | -2.69             | 2.36              | 11.81             | 1.15              |
|       | 309  | 0.35              | 4.57              | 2.98              | 0.15              | 0.73              | -1.18             | 165  | -2.77             | -11.07            | 3.19              | -0.31             | -1.57             | -1.18             |
| 240   | 316  | 0.49              | -0.27             | 3.59              | -0.55             | -2.75             | 0.23              | 317  | 0.27              | -1.38             | 3.82              | 0.18              | 0.92              | 0.23              |
|       | 313  | 0.49              | -0.27             | 0.80              | 0.15              | 0.73              | -0.25             | 314  | 0.27              | -1.38             | 1.02              | -0.08             | -0.42             | -0.25             |
| 241   | 317  | 0.23              | -0.03             | 3.72              | 0.18              | 0.92              | -0.12             | 318  | 0.04              | -1.02             | 3.95              | -0.28             | -1.41             | -0.12             |
|       | 314  | 0.23              | -0.03             | 5.03              | -0.08             | -0.42             | 0.09              | 315  | 0.04              | -1.02             | 5.26              | 0.16              | 0.79              | 0.09              |
| 242   | 318  | -0.04             | 1.66              | 5.77              | -0.28             | -1.41             | 0.32              | 167  | -1.26             | -4.44             | 6.00              | 1.08              | 5.40              | 0.32              |
|       | 315  | -0.04             | 1.66              | 7.36              | 0.16              | 0.79              | -0.34             | 12   | -1.26             | -4.44             | 7.58              | -0.51             | -2.55             | -0.34             |
| 243   | 319  | 0.26              | -0.47             | 4.06              | -0.29             | -1.44             | -0.18             | 320  | 0.13              | -1.09             | 3.37              | 0.19              | 0.96              | -0.18             |
|       | 82   | 0.26              | -0.47             | 2.64              | 0.29              | 1.47              | 0.15              | 83   | 0.13              | -1.09             | 1.95              | -0.48             | -2.40             | 0.15              |
| 244   | 320  | 0.14              | -1.15             | -0.18             | 0.19              | 0.96              | -0.37             | 321  | 0.27              | -0.48             | -0.87             | -0.57             | -2.87             | -0.37             |
|       | 83   | 0.14              | -1.15             | 1.37              | -0.48             | -2.40             | 0.34              | 84   | 0.27              | -0.48             | 0.67              | -0.35             | -1.75             | 0.34              |
| 245   | 321  | 0.00              | 1.90              | -4.14             | -0.57             | -2.87             | 0.94              | 168  | -1.67             | -6.47             | -3.93             | 2.52              | 12.62             | 0.94              |
|       | 84   | 0.00              | 1.90              | -0.64             | -0.35             | -1.75             | -0.96             | 85   | -1.67             | -6.47             | -0.43             | -1.73             | -8.67             | -0.96             |
| 246   | 322  | 0.25              | -0.59             | 3.10              | -0.59             | -2.93             | 0.31              | 323  | 0.18              | -0.94             | 2.71              | 0.24              | 1.22              | 0.31              |
|       | 102  | 0.25              | -0.59             | 1.33              | -0.80             | -3.98             | -0.34             | 103  | 0.18              | -0.94             | 0.94              | -1.02             | -5.08             | -0.34             |
| 247   | 323  | 0.18              | -0.84             | -0.97             | 0.24              | 1.22              | -0.31             | 324  | 0.21              | -0.65             | -1.49             | -0.57             | -2.83             | -0.31             |
|       | 103  | 0.18              | -0.84             | 0.55              | -1.02             | -5.08             | 0.28              | 104  | 0.21              | -0.65             | 0.03              | -0.76             | -3.79             | 0.28              |
| 248   | 324  | 0.00              | 1.98              | -4.47             | -0.57             | -2.83             | 1.22              | 169  | -1.60             | -6.02             | -4.28             | 2.45              | 12.25             | 1.22              |
|       | 104  | 0.00              | 1.98              | -1.47             | -0.76             | -3.79             | -1.25             | 105  | -1.60             | -6.02             | -1.28             | -1.43             | -7.15             | -1.25             |
| 249   | 325  | 0.33              | -0.30             | 2.83              | -0.55             | -2.73             | 0.28              | 326  | 0.18              | -1.02             | 2.61              | 0.22              | 1.11              | 0.28              |
|       | 122  | 0.33              | -0.30             | 1.26              | -0.73             | -3.67             | -0.31             | 123  | 0.18              | -1.02             | 1.03              | -0.98             | -4.89             | -0.31             |
| 250   | 326  | 0.16              | -0.88             | -0.68             | 0.22              | 1.11              | -0.29             | 327  | 0.26              | -0.41             | -1.08             | -0.53             | -2.63             | -0.29             |
|       | 123  | 0.16              | -0.88             | 0.64              | -0.98             | -4.89             | 0.26              | 124  | 0.26              | -0.41             | 0.24              | -0.71             | -3.57             | 0.26              |
| 251   | 327  | -0.03             | 1.71              | -3.91             | -0.53             | -2.63             | 1.26              | 170  | -1.54             | -5.85             | -3.80             | 2.36              | 11.78             | 1.26              |
|       | 124  | -0.03             | 1.71              | -0.90             | -0.71             | -3.57             | -1.28             | 125  | -1.54             | -5.85             | -0.80             | -1.37             | -6.87             | -1.28             |
| 252   | 328  | 0.25              | -0.36             | 2.97              | -0.51             | -2.55             | 0.33              | 329  | 0.11              | -1.05             | 2.52              | 0.11              | 0.53              | 0.33              |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 142  | 0.25              | -0.36             | 1.36              | -0.70             | -3.49             | -0.35             | 143  | 0.11              | -1.05             | 0.91              | -0.69             | -3.43             | -0.35             |
| 253   | 329  | 0.08              | -0.65             | -0.26             | 0.11              | 0.53              | 0.08              | 330  | 0.14              | -0.34             | -0.81             | 0.01              | 0.04              | 0.08              |
|       | 143  | 0.08              | -0.65             | 0.37              | -0.69             | -3.43             | -0.11             | 144  | 0.14              | -0.34             | -0.18             | -0.41             | -2.07             | -0.11             |
| 254   | 330  | 0.11              | -0.02             | -3.76             | 0.01              | 0.04              | 0.60              | 171  | -0.26             | -1.84             | -2.56             | -0.04             | -0.22             | 0.60              |
|       | 144  | 0.11              | -0.02             | -1.21             | -0.41             | -2.07             | -0.63             | 145  | -0.26             | -1.84             | -0.02             | 0.77              | 3.87              | -0.63             |
| 255   | 331  | 0.12              | -0.09             | -1.90             | -0.06             | -0.31             | 0.10              | 332  | 0.04              | -0.49             | -2.45             | -0.09             | -0.47             | 0.10              |
|       | 298  | 0.12              | -0.09             | -2.00             | 0.79              | 3.97              | -0.13             | 299  | 0.04              | -0.49             | -2.55             | 1.02              | 5.12              | -0.13             |
| 256   | 332  | 0.12              | -0.98             | -4.40             | -0.09             | -0.47             | 0.35              | 333  | 0.32              | -0.01             | -4.40             | 0.53              | 2.63              | 0.35              |
|       | 299  | 0.12              | -0.98             | -2.90             | 1.02              | 5.12              | -0.38             | 300  | 0.32              | -0.01             | -2.90             | 1.01              | 5.04              | -0.38             |
| 257   | 333  | 0.06              | 1.51              | -7.70             | 0.53              | 2.63              | -1.35             | 173  | -1.35             | -5.56             | -6.55             | -2.54             | -12.72            | -1.35             |
|       | 300  | 0.06              | 1.51              | -3.95             | 1.01              | 5.04              | 1.32              | 21   | -1.35             | -5.56             | -2.81             | 1.84              | 9.19              | 1.32              |
| 258   | 334  | 0.24              | -0.25             | -0.39             | 0.54              | 2.72              | -0.26             | 335  | 0.13              | -0.81             | -0.71             | -0.23             | -1.17             | -0.26             |
|       | 37   | 0.24              | -0.25             | -1.32             | 1.10              | 5.50              | 0.23              | 38   | 0.13              | -0.81             | -1.65             | 1.49              | 7.45              | 0.23              |
| 259   | 335  | 0.19              | -1.08             | -3.44             | -0.23             | -1.17             | 0.28              | 336  | 0.42              | 0.05              | -3.39             | 0.61              | 3.03              | 0.28              |
|       | 38   | 0.19              | -1.08             | -2.04             | 1.49              | 7.45              | -0.31             | 39   | 0.42              | 0.05              | -1.99             | 1.12              | 5.59              | -0.31             |
| 260   | 336  | 0.10              | 1.50              | -7.31             | 0.61              | 3.03              | -1.40             | 174  | -1.54             | -6.68             | -6.53             | -2.80             | -14.02            | -1.40             |
|       | 39   | 0.10              | 1.50              | -2.73             | 1.12              | 5.59              | 1.37              | 41   | -1.54             | -6.68             | -1.95             | 2.35              | 11.74             | 1.37              |
| 261   | 337  | 0.07              | -0.97             | 1.05              | 0.67              | 3.34              | -0.35             | 338  | 0.17              | -0.48             | 0.78              | -0.30             | -1.51             | -0.35             |
|       | 59   | 0.07              | -0.97             | -0.44             | 1.93              | 9.64              | 0.32              | 60   | 0.17              | -0.48             | -0.70             | 2.20              | 11.00             | 0.32              |
| 262   | 338  | 0.18              | -0.85             | -3.13             | -0.30             | -1.51             | 0.39              | 339  | 0.22              | -0.67             | -3.26             | 0.73              | 3.64              | 0.39              |
|       | 60   | 0.18              | -0.85             | -1.30             | 2.20              | 11.00             | -0.42             | 61   | 0.22              | -0.67             | -1.43             | 2.01              | 10.07             | -0.42             |
| 263   | 339  | 0.13              | 2.37              | -6.91             | 0.73              | 3.64              | -1.31             | 175  | -1.65             | -6.52             | -6.22             | -3.04             | -15.20            | -1.31             |
|       | 61   | 0.13              | 2.37              | -3.30             | 2.01              | 10.07             | 1.28              | 62   | -1.65             | -6.52             | -2.60             | 3.07              | 15.35             | 1.28              |
| 264   | 340  | 0.20              | -0.69             | 2.26              | 0.73              | 3.64              | -0.40             | 341  | 0.17              | -0.84             | 1.90              | -0.31             | -1.53             | -0.40             |
|       | 78   | 0.20              | -0.69             | 0.41              | 2.04              | 10.19             | 0.37              | 79   | 0.17              | -0.84             | 0.06              | 2.27              | 11.34             | 0.37              |
| 265   | 341  | 0.16              | -0.66             | -1.89             | -0.31             | -1.53             | 0.34              | 342  | 0.14              | -0.77             | -2.38             | 0.68              | 3.39              | 0.34              |
|       | 79   | 0.16              | -0.66             | -0.43             | 2.27              | 11.34             | -0.37             | 80   | 0.14              | -0.77             | -0.93             | 2.03              | 10.16             | -0.37             |
| 266   | 342  | 0.07              | 1.83              | -5.32             | 0.68              | 3.39              | -1.46             | 176  | -1.39             | -5.48             | -5.44             | -2.84             | -14.22            | -1.46             |
|       | 80   | 0.07              | 1.83              | -2.52             | 2.03              | 10.16             | 1.44              | 81   | -1.39             | -5.48             | -2.64             | 2.51              | 12.54             | 1.44              |
| 267   | 343  | 0.15              | -0.52             | 1.50              | 0.62              | 3.09              | -0.75             | 344  | 0.12              | -0.67             | 2.15              | -0.25             | -1.23             | -0.75             |
|       | 98   | 0.15              | -0.52             | 0.04              | 1.80              | 9.02              | 0.72              | 99   | 0.12              | -0.67             | 0.70              | 1.34              | 6.70              | 0.72              |
| 268   | 344  | 0.17              | -1.04             | -1.61             | -0.25             | -1.23             | 0.23              | 345  | 0.31              | -0.34             | -1.66             | 0.63              | 3.15              | 0.23              |
|       | 99   | 0.17              | -1.04             | -0.40             | 1.34              | 6.70              | -0.26             | 100  | 0.31              | -0.34             | -0.44             | 0.91              | 4.53              | -0.26             |
| 269   | 345  | 0.05              | 1.89              | -5.06             | 0.63              | 3.15              | -1.21             | 177  | -1.55             | -6.15             | -4.58             | -2.74             | -13.70            | -1.21             |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22    | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|--------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq |
|       | 100  | 0.05  | 1.89  | -1.67 | 0.91  | 4.53  | 1.18  | 101  | -1.55 | -6.15 | -1.19 | 2.13  | 10.64  | 1.18  |
| 270   | 346  | 0.23  | -0.56 | 2.35  | 0.64  | 3.18  | -0.36 | 347  | 0.18  | -0.83 | 2.04  | -0.27 | -1.33  | -0.36 |
|       | 118  | 0.23  | -0.56 | 0.74  | 1.20  | 5.99  | 0.33  | 119  | 0.18  | -0.83 | 0.43  | 1.44  | 7.22   | 0.33  |
| 271   | 347  | 0.17  | -0.78 | -1.40 | -0.27 | -1.33 | 0.29  | 348  | 0.21  | -0.57 | -1.78 | 0.62  | 3.09   | 0.29  |
|       | 119  | 0.17  | -0.78 | 0.07  | 1.44  | 7.22  | -0.32 | 120  | 0.21  | -0.57 | -0.31 | 1.14  | 5.70   | -0.32 |
| 272   | 348  | 0.01  | 1.92  | -4.65 | 0.62  | 3.09  | -1.35 | 178  | -1.52 | -5.74 | -4.33 | -2.67 | -13.33 | -1.35 |
|       | 120  | 0.01  | 1.92  | -1.74 | 1.14  | 5.70  | 1.32  | 121  | -1.52 | -5.74 | -1.42 | 1.88  | 9.41   | 1.32  |
| 273   | 349  | 0.32  | -0.25 | 2.63  | 0.59  | 2.97  | -0.34 | 350  | 0.18  | -0.93 | 2.56  | -0.24 | -1.21  | -0.34 |
|       | 138  | 0.32  | -0.25 | 1.13  | 1.09  | 5.47  | 0.31  | 139  | 0.18  | -0.93 | 1.05  | 1.36  | 6.82   | 0.31  |
| 274   | 350  | 0.16  | -0.79 | -0.57 | -0.24 | -1.21 | 0.27  | 351  | 0.25  | -0.37 | -0.81 | 0.57  | 2.87   | 0.27  |
|       | 139  | 0.16  | -0.79 | 0.68  | 1.36  | 6.82  | -0.29 | 140  | 0.25  | -0.37 | 0.44  | 1.04  | 5.19   | -0.29 |
| 275   | 351  | -0.04 | 1.74  | -3.37 | 0.57  | 2.87  | -1.40 | 179  | -1.50 | -5.56 | -3.19 | -2.56 | -12.81 | -1.40 |
|       | 140  | -0.04 | 1.74  | -0.65 | 1.04  | 5.19  | 1.37  | 141  | -1.50 | -5.56 | -0.47 | 1.75  | 8.73   | 1.37  |
| 276   | 352  | 0.27  | -0.20 | 3.82  | 0.55  | 2.76  | -0.37 | 353  | 0.12  | -0.95 | 3.73  | -0.11 | -0.53  | -0.37 |
|       | 158  | 0.27  | -0.20 | 2.12  | 0.97  | 4.87  | 0.34  | 159  | 0.12  | -0.95 | 2.04  | 0.97  | 4.84   | 0.34  |
| 277   | 353  | 0.08  | -0.52 | 1.28  | -0.11 | -0.53 | -0.09 | 354  | 0.16  | -0.14 | 0.86  | -0.05 | -0.23  | -0.09 |
|       | 159  | 0.08  | -0.52 | 1.64  | 0.97  | 4.84  | 0.06  | 160  | 0.16  | -0.14 | 1.22  | 0.77  | 3.86   | 0.06  |
| 278   | 354  | 0.13  | 0.08  | -1.25 | -0.05 | -0.23 | -0.68 | 180  | -0.31 | -2.13 | -1.35 | 0.20  | 0.99   | -0.68 |
|       | 160  | 0.13  | 0.08  | 1.07  | 0.77  | 3.86  | 0.65  | 161  | -0.31 | -2.13 | 0.98  | -0.70 | -3.51  | 0.65  |
| 279   | 355  | -0.25 | -1.43 | -0.66 | -0.34 | -1.70 | 0.10  | 356  | 0.05  | 0.07  | -1.36 | 0.14  | 0.70   | 0.10  |
|       | 286  | -0.25 | -1.43 | -1.13 | 1.31  | 6.54  | -0.13 | 290  | 0.05  | 0.07  | -1.84 | 1.21  | 6.05   | -0.13 |
| 280   | 356  | 0.03  | -0.14 | -4.24 | 0.14  | 0.70  | -0.26 | 357  | -0.15 | -1.03 | -4.27 | -0.27 | -1.33  | -0.26 |
|       | 290  | 0.03  | -0.14 | -3.69 | 1.21  | 6.05  | 0.23  | 294  | -0.15 | -1.03 | -3.72 | 0.79  | 3.96   | 0.23  |
| 281   | 357  | 0.12  | 1.38  | -6.83 | -0.27 | -1.34 | -0.03 | 172  | -0.58 | -2.11 | -4.76 | 0.97  | 4.86   | -0.03 |
|       | 294  | 0.12  | 1.38  | -6.85 | 0.79  | 3.97  | 0.00  | 20   | -0.58 | -2.11 | -4.78 | -0.49 | -2.44  | 0.00  |
| 282   | 358  | -0.24 | -1.40 | 0.06  | 0.35  | 1.77  | -0.14 | 359  | 0.06  | 0.09  | -0.58 | -0.16 | -0.79  | -0.14 |
|       | 149  | -0.24 | -1.40 | -0.41 | -1.21 | -6.04 | 0.11  | 153  | 0.06  | 0.09  | -1.05 | -1.12 | -5.61  | 0.11  |
| 283   | 359  | 0.04  | -0.09 | -3.39 | -0.16 | -0.79 | 0.20  | 360  | -0.17 | -1.13 | -3.55 | 0.32  | 1.61   | 0.20  |
|       | 153  | 0.04  | -0.09 | -2.75 | -1.12 | -5.61 | -0.23 | 157  | -0.17 | -1.13 | -2.91 | -0.89 | -4.45  | -0.23 |
| 284   | 360  | 0.13  | 1.56  | -5.94 | 0.32  | 1.61  | -0.02 | 180  | -0.67 | -2.44 | -4.23 | -1.18 | -5.89  | -0.02 |
|       | 157  | 0.13  | 1.56  | -5.98 | -0.89 | -4.45 | 0.00  | 161  | -0.67 | -2.44 | -4.28 | 0.58  | 2.90   | 0.00  |
| 285   | 361  | 0.09  | 0.25  | 5.81  | -0.84 | -4.19 | 0.14  | 181  | -0.25 | -1.49 | 6.64  | 3.19  | 15.95  | 0.14  |
|       | 266  | 0.09  | 0.25  | 4.26  | 0.17  | 0.85  | -0.17 | 13   | -0.25 | -1.49 | 5.09  | -3.51 | -17.54 | -0.17 |
| 286   | 362  | -0.25 | 1.41  | 5.28  | -0.76 | -3.79 | -0.41 | 182  | -1.22 | -3.45 | 3.24  | 0.17  | 0.87   | -0.41 |

TENS. SOVRACCARICO PERMAN.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N.ro | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> |
|       | 277  | -0.25             | 1.41              | 4.67              | 0.61              | 3.03              | 0.38              | 16   | -1.22             | -3.45             | 2.62              | -0.84             | -4.18             | 0.38              |
| 287   | 363  | 0.10              | 0.25              | 6.22              | 0.87              | 4.34              | -0.23             | 183  | -0.25             | -1.50             | 7.12              | -3.19             | -15.93            | -0.23             |
|       | 280  | 0.10              | 0.25              | 4.63              | -0.15             | -0.75             | 0.20              | 17   | -0.25             | -1.50             | 5.53              | 3.42              | 17.12             | 0.20              |
| 288   | 364  | -0.38             | 1.68              | 5.92              | 0.72              | 3.62              | 0.34              | 184  | -1.49             | -3.87             | 3.75              | -0.05             | -0.26             | 0.34              |
|       | 282  | -0.38             | 1.68              | 4.92              | -0.58             | -2.90             | -0.37             | 14   | -1.49             | -3.87             | 2.75              | 0.66              | 3.31              | -0.37             |
| 289   | 365  | -0.17             | -0.79             | 1.53              | 0.13              | 0.65              | 0.00              | 366  | -0.06             | -0.25             | 1.59              | -0.03             | -0.15             | 0.00              |
|       | 42   | -0.17             | -0.79             | 1.17              | -0.69             | -3.46             | -0.03             | 43   | -0.06             | -0.25             | 1.24              | -0.51             | -2.53             | -0.03             |
| 290   | 366  | -0.06             | -0.41             | 0.99              | -0.03             | -0.15             | 0.06              | 367  | -0.07             | -0.47             | 0.79              | 0.01              | 0.04              | 0.06              |
|       | 43   | -0.06             | -0.41             | 0.80              | -0.51             | -2.53             | -0.09             | 44   | -0.07             | -0.47             | 0.61              | -0.39             | -1.96             | -0.09             |
| 291   | 367  | -0.07             | -0.40             | 0.37              | 0.01              | 0.04              | 0.02              | 185  | -0.08             | -0.43             | 0.10              | -0.01             | -0.03             | 0.02              |
|       | 44   | -0.07             | -0.40             | 0.34              | -0.39             | -1.96             | -0.05             | 15   | -0.08             | -0.43             | 0.07              | -0.31             | -1.54             | -0.05             |
| 292   | 368  | -0.07             | -0.47             | -0.89             | 0.01              | 0.03              | -0.09             | 369  | -0.06             | -0.41             | -1.10             | -0.03             | -0.13             | -0.09             |
|       | 63   | -0.07             | -0.47             | -0.71             | -0.41             | -2.07             | 0.07              | 64   | -0.06             | -0.41             | -0.93             | -0.55             | -2.75             | 0.07              |
| 293   | 369  | -0.06             | -0.27             | -1.71             | -0.03             | -0.13             | -0.02             | 370  | -0.16             | -0.76             | -1.66             | 0.11              | 0.56              | -0.02             |
|       | 64   | -0.06             | -0.27             | -1.35             | -0.55             | -2.75             | 0.00              | 65   | -0.16             | -0.76             | -1.30             | -0.71             | -3.56             | 0.00              |
| 294   | 370  | -0.19             | 0.31              | -1.89             | 0.11              | 0.56              | -0.33             | 184  | -0.40             | -0.72             | -0.89             | -0.50             | -2.49             | -0.33             |
|       | 65   | -0.19             | 0.31              | -2.79             | -0.71             | -3.56             | 0.30              | 14   | -0.40             | -0.72             | -1.80             | -0.76             | -3.82             | 0.30              |

CARATT. Var.Bibl.Arch.: ASTE

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
|     | 24   | 2.00 | 0.00    | 0.01    | 1.75    | 0.00    | 0.00    | 0.00    | 24   | 0.00 | 0.00    | -0.01   | -1.75   | -0.01   | 0.00    | 0.00    |
|     | 19   | 2.00 | 0.00    | 0.77    | 0.00    | -0.49   | 0.00    | 0.00    | 24   | 2.00 | 0.00    | 0.79    | 0.00    | 0.53    | 0.00    | 0.00    |
|     | 24   | 2.00 | 0.00    | 0.79    | 0.00    | -0.53   | 0.00    | 0.00    | 21   | 2.00 | 0.00    | 0.77    | 0.00    | 0.49    | 0.00    | 0.00    |
|     | 1    | 5.00 | 0.00    | 0.00    | 0.03    | 0.00    | 0.00    | 0.00    | 1    | 2.00 | 0.00    | 0.00    | -0.03   | 0.00    | 0.00    | 0.00    |
|     | 2    | 5.00 | 0.01    | 0.00    | 0.02    | 0.00    | 0.01    | 0.00    | 2    | 2.00 | -0.01   | 0.00    | -0.02   | 0.00    | 0.01    | 0.00    |
|     | 3    | 5.00 | 0.01    | 0.00    | -0.03   | 0.00    | 0.01    | 0.00    | 3    | 2.00 | -0.01   | 0.00    | 0.03    | 0.00    | 0.01    | 0.00    |
|     | 4    | 5.00 | 0.00    | 0.00    | -0.03   | -0.01   | 0.00    | 0.00    | 4    | 2.00 | 0.00    | 0.00    | 0.03    | 0.00    | 0.00    | 0.00    |
|     | 5    | 5.00 | -0.01   | 0.00    | -0.04   | -0.01   | -0.01   | 0.00    | 5    | 2.00 | 0.01    | 0.00    | 0.04    | 0.00    | -0.01   | 0.00    |
|     | 6    | 5.00 | -0.01   | 0.00    | 0.01    | 0.00    | -0.01   | 0.00    | 6    | 2.00 | 0.01    | 0.00    | -0.01   | 0.00    | -0.01   | 0.00    |
|     | 7    | 5.00 | 0.00    | 0.00    | 0.01    | 0.00    | 0.00    | 0.00    | 7    | 2.00 | 0.00    | 0.00    | -0.01   | 0.00    | 0.00    | 0.00    |
|     | 8    | 5.00 | 0.00    | 0.00    | 0.01    | 0.00    | 0.00    | 0.00    | 8    | 2.00 | 0.00    | 0.00    | -0.01   | 0.00    | 0.00    | 0.00    |
|     | 9    | 5.00 | 0.00    | 0.00    | 0.01    | 0.00    | 0.00    | 0.00    | 9    | 2.00 | 0.00    | 0.00    | -0.01   | 0.00    | 0.00    | 0.00    |





CARATT. Var.Bibl.Arch.: ASTE

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 8   | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 9    | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 10  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 11   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 11  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 12   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 12  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 13   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 13  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 14   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 14  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 15  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 16   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 16  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 17   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 17  | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 18   | 5.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 25  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 26   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 26  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 27   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 27  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 28   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 28  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 29   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 29  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 30  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 31  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 32  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 33   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 1     | 216  | -0.20             | -0.01             | 0.41              | 2.67              | 0.16              | 0.28              | 217  | -0.19             | 0.04              | 0.18              | -1.85             | -0.52             | -0.59             |
|       | 1    | 0.22              | 0.07              | 0.20              | 5.35              | 1.42              | 0.28              | 213  | 0.23              | 0.12              | -0.04             | -2.03             | -0.28             | -0.59             |
| 2     | 220  | -0.14             | 0.18              | -0.01             | 5.18              | -5.97             | 1.58              | 227  | -0.16             | 0.04              | -0.09             | -0.03             | -1.21             | 2.59              |
|       | 2    | -0.50             | 0.11              | 0.09              | 5.09              | -0.61             | -1.61             | 224  | -0.53             | -0.03             | 0.01              | -1.24             | -0.36             | -0.60             |
| 3     | 234  | 0.44              | 0.33              | -0.10             | 7.71              | -3.94             | -3.97             | 235  | 0.42              | 0.21              | -0.08             | -2.10             | 1.30              | -8.10             |
|       | 4    | 0.18              | 0.28              | -0.05             | 27.14             | 31.39             | -0.20             | 231  | 0.15              | 0.15              | -0.03             | -8.07             | 2.53              | -4.33             |
| 4     | 242  | -0.05             | 0.04              | -0.02             | 1.42              | 0.75              | -0.91             | 243  | -0.05             | 0.05              | 0.04              | -1.00             | -0.94             | -1.26             |
|       | 3    | -0.12             | 0.03              | -0.02             | 2.71              | -0.09             | -0.53             | 221  | -0.12             | 0.04              | 0.03              | -2.03             | -1.33             | -0.87             |
| 5     | 253  | 0.26              | -0.07             | 0.34              | -0.27             | -0.14             | 0.13              | 254  | 0.24              | -0.15             | 0.07              | 0.06              | -0.10             | -0.04             |
|       | 1    | -0.70             | -0.26             | -0.43             | 0.26              | 0.40              | 0.19              | 249  | -0.71             | -0.34             | -0.70             | -0.11             | 0.07              | 0.03              |
| 6     | 253  | 0.01              | 0.27              | -0.35             | -0.68             | -0.14             | 0.28              | 264  | -0.15             | -0.49             | -0.48             | 0.75              | 0.32              | 0.25              |
|       | 1    | 0.05              | 0.28              | 0.13              | 1.00              | 1.36              | -0.35             | 216  | -0.10             | -0.48             | 0.00              | 0.00              | 3.22              | -0.38             |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 7     | 267  | 0.14              | 0.17              | -0.08             | 0.11              | -0.32             | -0.09             | 268  | 0.01              | -0.46             | -0.15             | -0.49             | -0.85             | -0.13             |
|       | 8    | 0.02              | 0.14              | 0.07              | 0.14              | 0.11              | 0.46              | 241  | -0.11             | -0.49             | 0.00              | -0.50             | -1.48             | 0.43              |
| 8     | 271  | 0.40              | 0.90              | 0.18              | 0.76              | 0.51              | -0.67             | 272  | 0.18              | -0.16             | -0.01             | -0.03             | 0.36              | -0.34             |
|       | 7    | 1.13              | 1.05              | 0.67              | 1.44              | 9.06              | 0.96              | 248  | 0.91              | -0.02             | 0.48              | 1.05              | 3.48              | 1.30              |
| 9     | 265  | 0.46              | -0.69             | 0.09              | -0.49             | 0.13              | -0.26             | 276  | 0.55              | -0.25             | 0.27              | -0.12             | -0.40             | -0.44             |
|       | 3    | -0.07             | -0.80             | -0.02             | 0.24              | 2.68              | 0.51              | 242  | 0.01              | -0.36             | 0.17              | 0.57              | 1.75              | 0.33              |
| 10    | 259  | 0.01              | 0.28              | -0.36             | 0.68              | 0.17              | -0.28             | 278  | -0.14             | -0.49             | -0.50             | -0.75             | -0.32             | -0.25             |
|       | 5    | 0.05              | 0.29              | 0.13              | -1.03             | -1.39             | 0.34              | 230  | -0.10             | -0.48             | -0.01             | 0.04              | -3.15             | 0.37              |
| 11    | 279  | 0.48              | -0.69             | 0.07              | 0.54              | -0.09             | 0.26              | 281  | 0.57              | -0.24             | 0.28              | 0.09              | 0.38              | 0.45              |
|       | 6    | -0.07             | -0.80             | -0.01             | -0.26             | -2.67             | -0.50             | 238  | 0.02              | -0.35             | 0.19              | -0.55             | -1.71             | -0.32             |
| 12    | 286  | 0.00              | 0.00              | 0.00              | 0.45              | -0.36             | 0.13              | 287  | 0.00              | 0.00              | 0.00              | -0.26             | -0.35             | 0.24              |
|       | 18   | 0.00              | 0.00              | 0.00              | -0.27             | 0.50              | 0.01              | 283  | 0.00              | 0.00              | 0.00              | 0.30              | 0.60              | 0.12              |
| 13    | 25   | 0.00              | 0.00              | 0.00              | -0.39             | -0.16             | 0.00              | 26   | 0.00              | 0.00              | 0.00              | -0.50             | -0.20             | -0.09             |
|       | 19   | 0.00              | 0.00              | 0.00              | -0.14             | 0.55              | -0.01             | 22   | 0.00              | 0.00              | 0.00              | -0.25             | 0.51              | -0.10             |
| 14    | 26   | 0.00              | 0.00              | 0.00              | -0.69             | -0.18             | -0.22             | 27   | 0.00              | 0.00              | 0.00              | -0.80             | -0.22             | -0.35             |
|       | 22   | 0.00              | 0.00              | 0.00              | -0.25             | 0.41              | -0.23             | 23   | 0.00              | 0.00              | 0.00              | -0.36             | 0.37              | -0.36             |
| 15    | 27   | 0.00              | 0.00              | 0.00              | -0.41             | 0.06              | -0.55             | 28   | 0.00              | 0.00              | 0.00              | -0.18             | 0.10              | -0.58             |
|       | 23   | 0.00              | 0.00              | 0.00              | -0.25             | 0.16              | -0.52             | 24   | 0.00              | 0.00              | 0.00              | -0.02             | 0.19              | -0.56             |
| 16    | 28   | 0.00              | 0.00              | 0.00              | 2.58              | 0.86              | -0.57             | 13   | 0.00              | 0.00              | 0.00              | 3.82              | 0.96              | -0.08             |
|       | 24   | 0.00              | 0.00              | 0.00              | 0.54              | -0.07             | -0.29             | 11   | 0.00              | 0.00              | 0.00              | 1.79              | 0.03              | 0.20              |
| 17    | 29   | 0.00              | 0.00              | 0.00              | -0.64             | -0.35             | 0.07              | 30   | 0.00              | 0.00              | 0.00              | -0.72             | -0.32             | 0.08              |
|       | 25   | 0.00              | 0.00              | 0.00              | -0.65             | -0.51             | 0.02              | 26   | 0.00              | 0.00              | 0.00              | -0.73             | -0.48             | 0.03              |
| 18    | 30   | 0.00              | 0.00              | 0.00              | -1.13             | -0.30             | 0.12              | 31   | 0.00              | 0.00              | 0.00              | -1.07             | -0.17             | 0.14              |
|       | 26   | 0.00              | 0.00              | 0.00              | -1.15             | -0.48             | -0.02             | 27   | 0.00              | 0.00              | 0.00              | -1.08             | -0.35             | 0.00              |
| 19    | 31   | 0.00              | 0.00              | 0.00              | -1.12             | -0.01             | 0.17              | 32   | 0.00              | 0.00              | 0.00              | -0.42             | 0.33              | 0.13              |
|       | 27   | 0.00              | 0.00              | 0.00              | -0.96             | -0.13             | -0.05             | 28   | 0.00              | 0.00              | 0.00              | -0.26             | 0.21              | -0.09             |
| 20    | 32   | 0.00              | 0.00              | 0.00              | 1.25              | 0.67              | -0.18             | 16   | 0.00              | 0.00              | 0.00              | 3.52              | 1.13              | -0.59             |
|       | 28   | 0.00              | 0.00              | 0.00              | 2.50              | 1.00              | -0.16             | 13   | 0.00              | 0.00              | 0.00              | 4.77              | 1.46              | -0.56             |
| 21    | 33   | 0.00              | 0.00              | 0.00              | -0.24             | -0.06             | 0.10              | 34   | 0.00              | 0.00              | 0.00              | -0.36             | -0.08             | 0.17              |
|       | 29   | 0.00              | 0.00              | 0.00              | -0.47             | -0.17             | 0.09              | 30   | 0.00              | 0.00              | 0.00              | -0.59             | -0.19             | 0.16              |
| 22    | 34   | 0.00              | 0.00              | 0.00              | -0.45             | -0.10             | 0.33              | 35   | 0.00              | 0.00              | 0.00              | -0.53             | -0.09             | 0.44              |
|       | 30   | 0.00              | 0.00              | 0.00              | -0.85             | -0.20             | 0.29              | 31   | 0.00              | 0.00              | 0.00              | -0.93             | -0.19             | 0.40              |
| 23    | 35   | 0.00              | 0.00              | 0.00              | -0.48             | -0.17             | 0.70              | 36   | 0.00              | 0.00              | 0.00              | -0.26             | -0.06             | 0.80              |
|       | 31   | 0.00              | 0.00              | 0.00              | -0.85             | 0.01              | 0.60              | 32   | 0.00              | 0.00              | 0.00              | -0.62             | 0.13              | 0.70              |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 24    | 36   | 0.00              | 0.00              | 0.00              | -0.02             | -0.43             | 0.93              | 40   | 0.00              | 0.00              | 0.00              | 1.05              | -0.04             | 0.68              |
|       | 32   | 0.00              | 0.00              | 0.00              | 0.74              | 1.09              | 0.69              | 16   | 0.00              | 0.00              | 0.00              | 1.81              | 1.48              | 0.45              |
| 25    | 21   | 0.00              | 0.00              | 0.00              | -0.03             | -0.01             | -0.06             | 37   | 0.00              | 0.00              | 0.00              | 0.00              | 0.04              | 0.00              |
|       | 33   | 0.00              | 0.00              | 0.00              | -0.11             | 0.07              | 0.06              | 34   | 0.00              | 0.00              | 0.00              | -0.25             | -0.14             | 0.12              |
| 26    | 37   | 0.00              | 0.00              | 0.00              | 0.03              | 0.05              | -0.10             | 38   | 0.00              | 0.00              | 0.00              | -0.03             | 0.01              | 0.00              |
|       | 34   | 0.00              | 0.00              | 0.00              | -0.32             | -0.16             | 0.24              | 35   | 0.00              | 0.00              | 0.00              | -0.38             | -0.53             | 0.35              |
| 27    | 38   | 0.00              | 0.00              | 0.00              | 0.06              | 0.03              | -0.11             | 39   | 0.00              | 0.00              | 0.00              | -0.05             | 0.02              | -0.04             |
|       | 35   | 0.00              | 0.00              | 0.00              | -0.46             | -0.55             | 0.49              | 36   | 0.00              | 0.00              | 0.00              | -0.27             | -1.20             | 0.56              |
| 28    | 39   | 0.00              | 0.00              | 0.00              | -0.01             | 0.03              | 0.06              | 41   | 0.00              | 0.00              | 0.00              | 0.03              | -0.20             | 0.02              |
|       | 36   | 0.00              | 0.00              | 0.00              | -0.08             | -1.17             | 0.43              | 40   | 0.00              | 0.00              | 0.00              | -0.17             | -1.36             | 0.39              |
| 29    | 45   | 0.00              | 0.00              | 0.00              | -0.68             | -0.46             | 0.39              | 46   | 0.00              | 0.00              | 0.00              | 0.40              | -0.40             | -0.30             |
|       | 16   | 0.00              | 0.00              | 0.00              | 3.94              | 5.12              | 0.49              | 42   | 0.00              | 0.00              | 0.00              | -0.96             | 3.98              | -0.21             |
| 30    | 46   | 0.00              | 0.00              | 0.00              | -0.28             | -0.53             | 0.20              | 47   | 0.00              | 0.00              | 0.00              | -0.06             | -0.47             | 0.02              |
|       | 42   | 0.00              | 0.00              | 0.00              | 1.42              | 4.46              | 0.14              | 43   | 0.00              | 0.00              | 0.00              | 0.56              | 4.47              | -0.04             |
| 31    | 47   | 0.00              | 0.00              | 0.00              | -0.21             | -0.50             | 0.17              | 48   | 0.00              | 0.00              | 0.00              | 0.00              | -0.51             | 0.10              |
|       | 43   | 0.00              | 0.00              | 0.00              | 0.94              | 4.55              | -0.03             | 44   | 0.00              | 0.00              | 0.00              | 1.12              | 5.24              | -0.09             |
| 32    | 48   | 0.00              | 0.00              | 0.00              | -0.01             | -0.51             | 0.10              | 49   | 0.00              | 0.00              | 0.00              | -0.02             | -0.55             | 0.04              |
|       | 44   | 0.00              | 0.00              | 0.00              | 1.12              | 5.24              | -0.02             | 15   | 0.00              | 0.00              | 0.00              | 1.36              | 5.70              | -0.08             |
| 33    | 40   | 0.00              | 0.00              | 0.00              | 0.06              | -1.12             | -0.08             | 50   | 0.00              | 0.00              | 0.00              | 0.06              | -1.06             | 0.10              |
|       | 45   | 0.00              | 0.00              | 0.00              | -0.10             | -0.86             | -0.10             | 46   | 0.00              | 0.00              | 0.00              | -0.10             | -0.79             | 0.07              |
| 34    | 50   | 0.00              | 0.00              | 0.00              | -0.23             | -1.11             | 0.06              | 51   | 0.00              | 0.00              | 0.00              | -0.23             | -1.14             | 0.09              |
|       | 46   | 0.00              | 0.00              | 0.00              | -0.20             | -0.79             | 0.07              | 47   | 0.00              | 0.00              | 0.00              | -0.21             | -0.82             | 0.10              |
| 35    | 51   | 0.00              | 0.00              | 0.00              | -0.25             | -1.19             | 0.08              | 52   | 0.00              | 0.00              | 0.00              | -0.21             | -1.21             | 0.08              |
|       | 47   | 0.00              | 0.00              | 0.00              | -0.18             | -0.83             | 0.09              | 48   | 0.00              | 0.00              | 0.00              | -0.15             | -0.85             | 0.09              |
| 36    | 52   | 0.00              | 0.00              | 0.00              | -0.15             | -1.22             | 0.04              | 53   | 0.00              | 0.00              | 0.00              | -0.13             | -1.23             | 0.04              |
|       | 48   | 0.00              | 0.00              | 0.00              | -0.09             | -0.85             | 0.04              | 49   | 0.00              | 0.00              | 0.00              | -0.06             | -0.86             | 0.04              |
| 37    | 54   | 0.00              | 0.00              | 0.00              | 0.10              | -0.96             | 0.13              | 55   | 0.00              | 0.00              | 0.00              | -0.13             | -1.03             | 0.04              |
|       | 40   | 0.00              | 0.00              | 0.00              | 0.22              | -1.01             | 0.14              | 50   | 0.00              | 0.00              | 0.00              | -0.01             | -1.08             | 0.06              |
| 38    | 55   | 0.00              | 0.00              | 0.00              | -0.20             | -1.04             | 0.03              | 56   | 0.00              | 0.00              | 0.00              | -0.24             | -1.09             | 0.02              |
|       | 50   | 0.00              | 0.00              | 0.00              | -0.22             | -1.23             | 0.05              | 51   | 0.00              | 0.00              | 0.00              | -0.26             | -1.29             | 0.04              |
| 39    | 56   | 0.00              | 0.00              | 0.00              | -0.23             | -1.13             | 0.04              | 57   | 0.00              | 0.00              | 0.00              | -0.23             | -1.17             | 0.03              |
|       | 51   | 0.00              | 0.00              | 0.00              | -0.26             | -1.33             | 0.05              | 52   | 0.00              | 0.00              | 0.00              | -0.26             | -1.36             | 0.05              |
| 40    | 57   | 0.00              | 0.00              | 0.00              | -0.20             | -1.20             | 0.03              | 58   | 0.00              | 0.00              | 0.00              | -0.19             | -1.22             | 0.00              |
|       | 52   | 0.00              | 0.00              | 0.00              | -0.20             | -1.37             | 0.04              | 53   | 0.00              | 0.00              | 0.00              | -0.18             | -1.39             | 0.01              |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 41    | 41   | 0.00              | 0.00              | 0.00              | 0.04              | -0.18             | 0.06              | 59   | 0.00              | 0.00              | 0.00              | -0.12             | -0.32             | -0.03             |
|       | 54   | 0.00              | 0.00              | 0.00              | -0.06             | -0.82             | 0.11              | 55   | 0.00              | 0.00              | 0.00              | -0.08             | -0.87             | 0.01              |
| 42    | 59   | 0.00              | 0.00              | 0.00              | -0.07             | -0.31             | -0.02             | 60   | 0.00              | 0.00              | 0.00              | -0.07             | -0.27             | 0.00              |
|       | 55   | 0.00              | 0.00              | 0.00              | -0.23             | -0.90             | -0.02             | 56   | 0.00              | 0.00              | 0.00              | -0.20             | -0.94             | 0.01              |
| 43    | 60   | 0.00              | 0.00              | 0.00              | -0.09             | -0.27             | -0.01             | 61   | 0.00              | 0.00              | 0.00              | -0.04             | -0.26             | 0.00              |
|       | 56   | 0.00              | 0.00              | 0.00              | -0.24             | -0.94             | 0.01              | 57   | 0.00              | 0.00              | 0.00              | -0.20             | -1.01             | 0.02              |
| 44    | 61   | 0.00              | 0.00              | 0.00              | -0.15             | -0.28             | -0.01             | 62   | 0.00              | 0.00              | 0.00              | 0.08              | -0.21             | -0.01             |
|       | 57   | 0.00              | 0.00              | 0.00              | -0.18             | -1.00             | -0.01             | 58   | 0.00              | 0.00              | 0.00              | -0.22             | -1.06             | 0.00              |
| 45    | 49   | 0.00              | 0.00              | 0.00              | 0.18              | -0.51             | -0.09             | 66   | 0.00              | 0.00              | 0.00              | -0.07             | -0.52             | -0.07             |
|       | 15   | 0.00              | 0.00              | 0.00              | 1.38              | 5.70              | 0.04              | 63   | 0.00              | 0.00              | 0.00              | 1.08              | 5.21              | 0.05              |
| 46    | 66   | 0.00              | 0.00              | 0.00              | -0.04             | -0.51             | -0.12             | 67   | 0.00              | 0.00              | 0.00              | -0.22             | -0.54             | -0.20             |
|       | 63   | 0.00              | 0.00              | 0.00              | 1.17              | 5.23              | 0.09              | 64   | 0.00              | 0.00              | 0.00              | 0.87              | 4.50              | 0.02              |
| 47    | 67   | 0.00              | 0.00              | 0.00              | -0.14             | -0.53             | -0.04             | 68   | 0.00              | 0.00              | 0.00              | -0.19             | -0.29             | -0.22             |
|       | 64   | 0.00              | 0.00              | 0.00              | 0.63              | 4.45              | -0.01             | 65   | 0.00              | 0.00              | 0.00              | 1.26              | 4.23              | -0.19             |
| 48    | 68   | 0.00              | 0.00              | 0.00              | -0.01             | -0.25             | -0.07             | 69   | 0.00              | 0.00              | 0.00              | 1.00              | -0.88             | 0.03              |
|       | 65   | 0.00              | 0.00              | 0.00              | -0.57             | 3.87              | -0.01             | 14   | 0.00              | 0.00              | 0.00              | 3.44              | 5.31              | 0.09              |
| 49    | 53   | 0.00              | 0.00              | 0.00              | -0.39             | -1.74             | 0.03              | 70   | 0.00              | 0.00              | 0.00              | -0.26             | -1.61             | -0.12             |
|       | 49   | 0.00              | 0.00              | 0.00              | 0.19              | -0.43             | 0.01              | 66   | 0.00              | 0.00              | 0.00              | -0.07             | -0.52             | -0.14             |
| 50    | 70   | 0.00              | 0.00              | 0.00              | -0.29             | -1.62             | -0.08             | 71   | 0.00              | 0.00              | 0.00              | -0.36             | -1.50             | -0.07             |
|       | 66   | 0.00              | 0.00              | 0.00              | -0.04             | -0.52             | -0.13             | 67   | 0.00              | 0.00              | 0.00              | -0.22             | -0.53             | -0.12             |
| 51    | 71   | 0.00              | 0.00              | 0.00              | -0.39             | -1.50             | -0.09             | 72   | 0.00              | 0.00              | 0.00              | -0.19             | -1.38             | 0.00              |
|       | 67   | 0.00              | 0.00              | 0.00              | -0.14             | -0.52             | -0.14             | 68   | 0.00              | 0.00              | 0.00              | -0.23             | -0.46             | -0.05             |
| 52    | 72   | 0.00              | 0.00              | 0.00              | -0.17             | -1.38             | 0.05              | 73   | 0.00              | 0.00              | 0.00              | 0.07              | -1.56             | -0.35             |
|       | 68   | 0.00              | 0.00              | 0.00              | -0.05             | -0.42             | 0.11              | 69   | 0.00              | 0.00              | 0.00              | 1.14              | -0.16             | -0.29             |
| 53    | 58   | 0.00              | 0.00              | 0.00              | -0.10             | -0.98             | -0.01             | 74   | 0.00              | 0.00              | 0.00              | -0.24             | -1.02             | 0.01              |
|       | 53   | 0.00              | 0.00              | 0.00              | -0.39             | -1.76             | -0.04             | 70   | 0.00              | 0.00              | 0.00              | -0.26             | -1.61             | -0.02             |
| 54    | 74   | 0.00              | 0.00              | 0.00              | -0.22             | -1.02             | 0.00              | 75   | 0.00              | 0.00              | 0.00              | -0.23             | -0.98             | -0.01             |
|       | 70   | 0.00              | 0.00              | 0.00              | -0.29             | -1.62             | -0.06             | 71   | 0.00              | 0.00              | 0.00              | -0.36             | -1.49             | -0.07             |
| 55    | 75   | 0.00              | 0.00              | 0.00              | -0.21             | -0.98             | 0.00              | 76   | 0.00              | 0.00              | 0.00              | -0.19             | -0.90             | -0.02             |
|       | 71   | 0.00              | 0.00              | 0.00              | -0.39             | -1.50             | -0.04             | 72   | 0.00              | 0.00              | 0.00              | -0.20             | -1.42             | -0.05             |
| 56    | 76   | 0.00              | 0.00              | 0.00              | -0.14             | -0.89             | 0.01              | 77   | 0.00              | 0.00              | 0.00              | -0.10             | -0.74             | -0.21             |
|       | 72   | 0.00              | 0.00              | 0.00              | -0.18             | -1.42             | -0.06             | 73   | 0.00              | 0.00              | 0.00              | 0.12              | -1.29             | -0.27             |
| 57    | 62   | 0.00              | 0.00              | 0.00              | 0.01              | -0.23             | 0.02              | 78   | 0.00              | 0.00              | 0.00              | -0.10             | -0.27             | 0.00              |
|       | 58   | 0.00              | 0.00              | 0.00              | -0.11             | -1.04             | 0.01              | 74   | 0.00              | 0.00              | 0.00              | -0.24             | -1.02             | -0.01             |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 58    | 78   | 0.00              | 0.00              | 0.00              | -0.08             | -0.27             | 0.00              | 79   | 0.00              | 0.00              | 0.00              | -0.06             | -0.26             | 0.01              |
|       | 74   | 0.00              | 0.00              | 0.00              | -0.22             | -1.01             | -0.02             | 75   | 0.00              | 0.00              | 0.00              | -0.23             | -0.98             | -0.01             |
| 59    | 79   | 0.00              | 0.00              | 0.00              | -0.10             | -0.27             | 0.00              | 80   | 0.00              | 0.00              | 0.00              | -0.03             | -0.28             | 0.00              |
|       | 75   | 0.00              | 0.00              | 0.00              | -0.21             | -0.97             | -0.01             | 76   | 0.00              | 0.00              | 0.00              | -0.20             | -0.93             | 0.00              |
| 60    | 80   | 0.00              | 0.00              | 0.00              | -0.14             | -0.30             | 0.04              | 81   | 0.00              | 0.00              | 0.00              | 0.07              | -0.25             | 0.01              |
|       | 76   | 0.00              | 0.00              | 0.00              | -0.14             | -0.92             | -0.06             | 77   | 0.00              | 0.00              | 0.00              | -0.07             | -0.59             | -0.10             |
| 61    | 17   | 0.00              | 0.00              | 0.00              | 3.54              | 0.92              | 0.10              | 86   | 0.00              | 0.00              | 0.00              | 2.19              | 0.80              | 0.58              |
|       | 12   | 0.00              | 0.00              | 0.00              | 1.71              | 0.02              | -0.16             | 82   | 0.00              | 0.00              | 0.00              | 0.36              | -0.09             | 0.32              |
| 62    | 86   | 0.00              | 0.00              | 0.00              | -0.40             | 0.03              | 0.52              | 87   | 0.00              | 0.00              | 0.00              | -0.57             | 0.00              | 0.44              |
|       | 82   | 0.00              | 0.00              | 0.00              | -0.10             | 0.23              | 0.52              | 83   | 0.00              | 0.00              | 0.00              | -0.27             | 0.20              | 0.44              |
| 63    | 87   | 0.00              | 0.00              | 0.00              | -0.74             | -0.21             | 0.23              | 88   | 0.00              | 0.00              | 0.00              | -0.61             | -0.18             | 0.10              |
|       | 83   | 0.00              | 0.00              | 0.00              | -0.32             | 0.38              | 0.24              | 84   | 0.00              | 0.00              | 0.00              | -0.20             | 0.42              | 0.11              |
| 64    | 88   | 0.00              | 0.00              | 0.00              | -0.34             | -0.13             | -0.01             | 89   | 0.00              | 0.00              | 0.00              | -0.27             | -0.11             | -0.07             |
|       | 84   | 0.00              | 0.00              | 0.00              | -0.17             | 0.46              | 0.00              | 85   | 0.00              | 0.00              | 0.00              | -0.10             | 0.49              | -0.06             |
| 65    | 14   | 0.00              | 0.00              | 0.00              | 3.30              | 1.16              | 0.53              | 90   | 0.00              | 0.00              | 0.00              | 0.94              | 0.68              | 0.12              |
|       | 17   | 0.00              | 0.00              | 0.00              | 4.40              | 1.39              | 0.51              | 86   | 0.00              | 0.00              | 0.00              | 2.04              | 0.91              | 0.11              |
| 66    | 90   | 0.00              | 0.00              | 0.00              | -0.64             | 0.33              | -0.16             | 91   | 0.00              | 0.00              | 0.00              | -1.17             | -0.02             | -0.18             |
|       | 86   | 0.00              | 0.00              | 0.00              | -0.54             | 0.12              | 0.06              | 87   | 0.00              | 0.00              | 0.00              | -1.08             | -0.23             | 0.04              |
| 67    | 91   | 0.00              | 0.00              | 0.00              | -0.98             | -0.20             | -0.12             | 92   | 0.00              | 0.00              | 0.00              | -0.90             | -0.29             | -0.11             |
|       | 87   | 0.00              | 0.00              | 0.00              | -1.01             | -0.37             | -0.02             | 88   | 0.00              | 0.00              | 0.00              | -0.93             | -0.46             | -0.01             |
| 68    | 92   | 0.00              | 0.00              | 0.00              | -0.51             | -0.29             | -0.06             | 93   | 0.00              | 0.00              | 0.00              | -0.38             | -0.29             | -0.06             |
|       | 88   | 0.00              | 0.00              | 0.00              | -0.52             | -0.44             | -0.05             | 89   | 0.00              | 0.00              | 0.00              | -0.39             | -0.44             | -0.04             |
| 69    | 94   | 0.00              | 0.00              | 0.00              | 0.11              | -0.13             | -0.86             | 90   | 0.00              | 0.00              | 0.00              | 0.62              | 0.96              | -0.66             |
|       | 69   | 0.00              | 0.00              | 0.00              | 1.83              | 0.94              | -0.81             | 14   | 0.00              | 0.00              | 0.00              | 2.34              | 2.03              | -0.61             |
| 70    | 94   | 0.00              | 0.00              | 0.00              | -0.37             | -0.12             | -0.66             | 95   | 0.00              | 0.00              | 0.00              | -0.47             | -0.15             | -0.54             |
|       | 90   | 0.00              | 0.00              | 0.00              | -0.78             | -0.13             | -0.65             | 91   | 0.00              | 0.00              | 0.00              | -0.89             | -0.16             | -0.52             |
| 71    | 95   | 0.00              | 0.00              | 0.00              | -0.48             | -0.09             | -0.31             | 96   | 0.00              | 0.00              | 0.00              | -0.36             | -0.07             | -0.21             |
|       | 91   | 0.00              | 0.00              | 0.00              | -0.82             | -0.23             | -0.30             | 92   | 0.00              | 0.00              | 0.00              | -0.70             | -0.21             | -0.20             |
| 72    | 96   | 0.00              | 0.00              | 0.00              | -0.24             | -0.05             | -0.09             | 97   | 0.00              | 0.00              | 0.00              | -0.13             | -0.03             | -0.04             |
|       | 92   | 0.00              | 0.00              | 0.00              | -0.39             | -0.15             | -0.09             | 93   | 0.00              | 0.00              | 0.00              | -0.28             | -0.12             | -0.05             |
| 73    | 77   | 0.00              | 0.00              | 0.00              | -0.07             | -0.69             | -0.20             | 98   | 0.00              | 0.00              | 0.00              | 0.21              | -0.38             | -0.18             |
|       | 73   | 0.00              | 0.00              | 0.00              | -0.11             | -0.99             | -0.31             | 94   | 0.00              | 0.00              | 0.00              | 0.17              | -0.69             | -0.28             |
| 74    | 98   | 0.00              | 0.00              | 0.00              | -0.20             | -0.34             | -0.15             | 99   | 0.00              | 0.00              | 0.00              | -0.02             | -0.15             | -0.12             |
|       | 94   | 0.00              | 0.00              | 0.00              | -0.30             | -0.54             | -0.32             | 95   | 0.00              | 0.00              | 0.00              | -0.12             | -0.34             | -0.29             |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 75    | 99   | 0.00              | 0.00              | 0.00              | -0.11             | -0.08             | -0.08             | 100  | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              | -0.03             |
|       | 95   | 0.00              | 0.00              | 0.00              | -0.25             | -0.21             | -0.15             | 96   | 0.00              | 0.00              | 0.00              | -0.14             | -0.12             | -0.11             |
| 76    | 100  | 0.00              | 0.00              | 0.00              | -0.02             | 0.02              | -0.01             | 101  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.01              |
|       | 96   | 0.00              | 0.00              | 0.00              | -0.09             | -0.02             | -0.03             | 97   | 0.00              | 0.00              | 0.00              | -0.05             | 0.00              | -0.01             |
| 77    | 94   | 0.00              | 0.00              | 0.00              | 0.08              | -1.07             | -0.46             | 94   | 0.00              | 0.00              | 0.00              | 0.08              | -1.07             | -0.46             |
|       | 73   | 0.00              | 0.00              | 0.00              | 0.08              | -1.07             | -0.46             | 69   | 0.00              | 0.00              | 0.00              | 0.08              | -1.07             | -0.46             |
| 78    | 81   | 0.00              | 0.00              | 0.00              | -0.14             | -0.48             | -0.02             | 81   | 0.00              | 0.00              | 0.00              | -0.14             | -0.48             | -0.02             |
|       | 77   | 0.00              | 0.00              | 0.00              | -0.14             | -0.48             | -0.02             | 98   | 0.00              | 0.00              | 0.00              | -0.14             | -0.48             | -0.02             |
| 79    | 89   | 0.00              | 0.00              | 0.00              | -0.42             | -0.71             | -0.12             | 106  | 0.00              | 0.00              | 0.00              | -0.04             | -0.45             | -0.16             |
|       | 85   | 0.00              | 0.00              | 0.00              | 0.44              | 1.19              | -0.04             | 102  | 0.00              | 0.00              | 0.00              | -0.10             | 0.78              | -0.08             |
| 80    | 106  | 0.00              | 0.00              | 0.00              | -0.14             | -0.47             | -0.14             | 107  | 0.00              | 0.00              | 0.00              | -0.03             | -0.34             | -0.11             |
|       | 102  | 0.00              | 0.00              | 0.00              | 0.22              | 0.84              | -0.07             | 103  | 0.00              | 0.00              | 0.00              | -0.03             | 0.60              | -0.05             |
| 81    | 107  | 0.00              | 0.00              | 0.00              | -0.08             | -0.35             | -0.10             | 108  | 0.00              | 0.00              | 0.00              | -0.04             | -0.27             | -0.08             |
|       | 103  | 0.00              | 0.00              | 0.00              | 0.13              | 0.63              | -0.05             | 104  | 0.00              | 0.00              | 0.00              | 0.00              | 0.46              | -0.03             |
| 82    | 108  | 0.00              | 0.00              | 0.00              | -0.07             | -0.27             | -0.06             | 109  | 0.00              | 0.00              | 0.00              | -0.03             | -0.23             | -0.05             |
|       | 104  | 0.00              | 0.00              | 0.00              | 0.10              | 0.48              | -0.04             | 105  | 0.00              | 0.00              | 0.00              | 0.01              | 0.39              | -0.02             |
| 83    | 93   | 0.00              | 0.00              | 0.00              | -0.18             | -0.10             | -0.02             | 110  | 0.00              | 0.00              | 0.00              | -0.01             | -0.06             | 0.00              |
|       | 89   | 0.00              | 0.00              | 0.00              | -0.40             | -0.62             | -0.08             | 106  | 0.00              | 0.00              | 0.00              | -0.04             | -0.46             | -0.07             |
| 84    | 110  | 0.00              | 0.00              | 0.00              | 0.00              | -0.06             | 0.01              | 111  | 0.00              | 0.00              | 0.00              | 0.02              | -0.04             | 0.02              |
|       | 106  | 0.00              | 0.00              | 0.00              | -0.14             | -0.48             | -0.08             | 107  | 0.00              | 0.00              | 0.00              | -0.03             | -0.35             | -0.07             |
| 85    | 111  | 0.00              | 0.00              | 0.00              | 0.02              | -0.04             | 0.00              | 112  | 0.00              | 0.00              | 0.00              | 0.01              | -0.03             | 0.01              |
|       | 107  | 0.00              | 0.00              | 0.00              | -0.08             | -0.36             | -0.06             | 108  | 0.00              | 0.00              | 0.00              | -0.04             | -0.28             | -0.05             |
| 86    | 112  | 0.00              | 0.00              | 0.00              | 0.01              | -0.03             | 0.00              | 113  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.01              |
|       | 108  | 0.00              | 0.00              | 0.00              | -0.07             | -0.28             | -0.04             | 109  | 0.00              | 0.00              | 0.00              | -0.03             | -0.23             | -0.04             |
| 87    | 97   | 0.00              | 0.00              | 0.00              | -0.03             | 0.01              | 0.00              | 114  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.03              |
|       | 93   | 0.00              | 0.00              | 0.00              | -0.18             | -0.12             | -0.04             | 110  | 0.00              | 0.00              | 0.00              | -0.01             | -0.07             | 0.00              |
| 88    | 114  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.02              | 115  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.02              |
|       | 110  | 0.00              | 0.00              | 0.00              | 0.00              | -0.07             | 0.00              | 111  | 0.00              | 0.00              | 0.00              | 0.02              | -0.04             | 0.00              |
| 89    | 115  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.02              | 116  | 0.00              | 0.00              | 0.00              | 0.02              | 0.06              | 0.01              |
|       | 111  | 0.00              | 0.00              | 0.00              | 0.02              | -0.04             | 0.01              | 112  | 0.00              | 0.00              | 0.00              | 0.01              | -0.03             | 0.00              |
| 90    | 116  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.01              | 117  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.01              |
|       | 112  | 0.00              | 0.00              | 0.00              | 0.01              | -0.03             | 0.00              | 113  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              |
| 91    | 101  | 0.00              | 0.00              | 0.00              | 0.03              | 0.03              | 0.01              | 118  | 0.00              | 0.00              | 0.00              | -0.01             | 0.01              | 0.02              |
|       | 97   | 0.00              | 0.00              | 0.00              | -0.02             | 0.04              | 0.02              | 114  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.02              |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 92    | 118  | 0.00              | 0.00              | 0.00              | 0.01              | 0.02              | 0.01              | 119  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
|       | 114  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.03              | 115  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.02              |
| 93    | 119  | 0.00              | 0.00              | 0.00              | 0.01              | -0.01             | 0.00              | 120  | 0.00              | 0.00              | 0.00              | 0.00              | -0.03             | 0.00              |
|       | 115  | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 0.02              | 116  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.01              |
| 94    | 120  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              | 121  | 0.00              | 0.00              | 0.00              | -0.03             | -0.06             | 0.00              |
|       | 116  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.01              | 117  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.01              |
| 95    | 109  | 0.00              | 0.00              | 0.00              | -0.07             | -0.24             | -0.05             | 126  | 0.00              | 0.00              | 0.00              | -0.03             | -0.18             | -0.05             |
|       | 105  | 0.00              | 0.00              | 0.00              | 0.15              | 0.42              | -0.02             | 122  | 0.00              | 0.00              | 0.00              | -0.02             | 0.29              | -0.02             |
| 96    | 126  | 0.00              | 0.00              | 0.00              | -0.05             | -0.19             | -0.04             | 127  | 0.00              | 0.00              | 0.00              | -0.03             | -0.15             | -0.04             |
|       | 122  | 0.00              | 0.00              | 0.00              | 0.08              | 0.31              | -0.02             | 123  | 0.00              | 0.00              | 0.00              | -0.01             | 0.24              | -0.01             |
| 97    | 127  | 0.00              | 0.00              | 0.00              | -0.04             | -0.16             | -0.03             | 128  | 0.00              | 0.00              | 0.00              | -0.02             | -0.13             | -0.02             |
|       | 123  | 0.00              | 0.00              | 0.00              | 0.05              | 0.25              | -0.02             | 124  | 0.00              | 0.00              | 0.00              | 0.00              | 0.20              | -0.01             |
| 98    | 128  | 0.00              | 0.00              | 0.00              | -0.04             | -0.13             | -0.02             | 129  | 0.00              | 0.00              | 0.00              | -0.02             | -0.12             | -0.01             |
|       | 124  | 0.00              | 0.00              | 0.00              | 0.04              | 0.21              | -0.01             | 125  | 0.00              | 0.00              | 0.00              | 0.02              | 0.20              | -0.01             |
| 99    | 113  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              | 130  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.01              |
|       | 109  | 0.00              | 0.00              | 0.00              | -0.07             | -0.23             | -0.03             | 126  | 0.00              | 0.00              | 0.00              | -0.03             | -0.19             | -0.03             |
| 100   | 130  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              | 131  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.01              |
|       | 126  | 0.00              | 0.00              | 0.00              | -0.05             | -0.19             | -0.03             | 127  | 0.00              | 0.00              | 0.00              | -0.03             | -0.16             | -0.02             |
| 101   | 131  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              | 132  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
|       | 127  | 0.00              | 0.00              | 0.00              | -0.05             | -0.16             | -0.02             | 128  | 0.00              | 0.00              | 0.00              | -0.03             | -0.13             | -0.02             |
| 102   | 132  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 133  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
|       | 128  | 0.00              | 0.00              | 0.00              | -0.04             | -0.14             | -0.01             | 129  | 0.00              | 0.00              | 0.00              | -0.02             | -0.12             | -0.01             |
| 103   | 117  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.00              | 134  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              |
|       | 113  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              | 130  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              |
| 104   | 134  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              | 135  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              |
|       | 130  | 0.00              | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              | 131  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
| 105   | 135  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              | 136  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              |
|       | 131  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 132  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
| 106   | 136  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              | 137  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.00              |
|       | 132  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 133  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
| 107   | 121  | 0.00              | 0.00              | 0.00              | -0.05             | -0.06             | 0.00              | 138  | 0.00              | 0.00              | 0.00              | 0.01              | -0.03             | 0.00              |
|       | 117  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.00              | 134  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              |
| 108   | 138  | 0.00              | 0.00              | 0.00              | -0.01             | -0.04             | 0.00              | 139  | 0.00              | 0.00              | 0.00              | 0.01              | -0.04             | 0.00              |
|       | 134  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              | 135  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 109   | 139  | 0.00              | 0.00              | 0.00              | 0.00              | -0.04             | 0.00              | 140  | 0.00              | 0.00              | 0.00              | 0.00              | -0.05             | 0.00              |
|       | 135  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              | 136  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.01              |
| 110   | 140  | 0.00              | 0.00              | 0.00              | 0.00              | -0.05             | 0.00              | 141  | 0.00              | 0.00              | 0.00              | -0.03             | -0.08             | 0.00              |
|       | 136  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.01              | 137  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.01              |
| 111   | 129  | 0.00              | 0.00              | 0.00              | -0.04             | -0.13             | -0.02             | 146  | 0.00              | 0.00              | 0.00              | -0.02             | -0.10             | -0.03             |
|       | 125  | 0.00              | 0.00              | 0.00              | 0.09              | 0.21              | -0.01             | 142  | 0.00              | 0.00              | 0.00              | -0.02             | 0.14              | -0.01             |
| 112   | 146  | 0.00              | 0.00              | 0.00              | -0.03             | -0.10             | -0.02             | 147  | 0.00              | 0.00              | 0.00              | -0.03             | -0.08             | -0.02             |
|       | 142  | 0.00              | 0.00              | 0.00              | 0.04              | 0.15              | -0.01             | 143  | 0.00              | 0.00              | 0.00              | -0.01             | 0.11              | -0.01             |
| 113   | 147  | 0.00              | 0.00              | 0.00              | -0.04             | -0.08             | -0.02             | 148  | 0.00              | 0.00              | 0.00              | -0.02             | -0.05             | -0.02             |
|       | 143  | 0.00              | 0.00              | 0.00              | 0.02              | 0.12              | -0.01             | 144  | 0.00              | 0.00              | 0.00              | 0.00              | 0.07              | -0.01             |
| 114   | 148  | 0.00              | 0.00              | 0.00              | -0.04             | -0.05             | -0.02             | 149  | 0.00              | 0.00              | 0.00              | 0.06              | -0.05             | -0.01             |
|       | 144  | 0.00              | 0.00              | 0.00              | 0.02              | 0.08              | -0.02             | 145  | 0.00              | 0.00              | 0.00              | 0.01              | 0.08              | -0.01             |
| 115   | 133  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 150  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
|       | 129  | 0.00              | 0.00              | 0.00              | -0.03             | -0.12             | -0.01             | 146  | 0.00              | 0.00              | 0.00              | -0.02             | -0.10             | -0.01             |
| 116   | 150  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 151  | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              |
|       | 146  | 0.00              | 0.00              | 0.00              | -0.03             | -0.10             | -0.01             | 147  | 0.00              | 0.00              | 0.00              | -0.03             | -0.08             | -0.01             |
| 117   | 151  | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              | 152  | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              | 0.02              |
|       | 147  | 0.00              | 0.00              | 0.00              | -0.04             | -0.08             | -0.01             | 148  | 0.00              | 0.00              | 0.00              | -0.02             | -0.05             | 0.00              |
| 118   | 152  | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | 0.03              | 153  | 0.00              | 0.00              | 0.00              | 0.02              | -0.01             | 0.02              |
|       | 148  | 0.00              | 0.00              | 0.00              | -0.04             | -0.06             | -0.01             | 149  | 0.00              | 0.00              | 0.00              | 0.08              | 0.03              | -0.01             |
| 119   | 137  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.00              | 154  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              |
|       | 133  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 150  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              |
| 120   | 154  | 0.00              | 0.00              | 0.00              | 0.02              | 0.06              | 0.00              | 155  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.00              |
|       | 150  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 151  | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              |
| 121   | 155  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.00              | 156  | 0.00              | 0.00              | 0.00              | 0.03              | 0.04              | 0.01              |
|       | 151  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.01              | 152  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.02              |
| 122   | 156  | 0.00              | 0.00              | 0.00              | 0.04              | 0.04              | 0.00              | 157  | 0.00              | 0.00              | 0.00              | -0.04             | -0.02             | 0.00              |
|       | 152  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.03              | 153  | 0.00              | 0.00              | 0.00              | 0.03              | 0.02              | 0.02              |
| 123   | 141  | 0.00              | 0.00              | 0.00              | -0.05             | -0.08             | 0.00              | 158  | 0.00              | 0.00              | 0.00              | 0.01              | -0.05             | 0.00              |
|       | 137  | 0.00              | 0.00              | 0.00              | 0.01              | 0.06              | 0.00              | 154  | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | 0.00              |
| 124   | 158  | 0.00              | 0.00              | 0.00              | -0.02             | -0.06             | 0.00              | 159  | 0.00              | 0.00              | 0.00              | 0.00              | -0.06             | 0.00              |
|       | 154  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.00              | 155  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.00              |
| 125   | 159  | 0.00              | 0.00              | 0.00              | 0.00              | -0.06             | 0.00              | 160  | 0.00              | 0.00              | 0.00              | 0.00              | -0.05             | -0.01             |
|       | 155  | 0.00              | 0.00              | 0.00              | 0.02              | 0.05              | 0.00              | 156  | 0.00              | 0.00              | 0.00              | 0.03              | 0.04              | 0.00              |



TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 126   | 160  | 0.00  | 0.00  | 0.00  | -0.01 | -0.05 | -0.01 | 161  | 0.00  | 0.00  | 0.00  | -0.01 | -0.07 | 0.00  |
|       | 156  | 0.00  | 0.00  | 0.00  | 0.03  | 0.04  | -0.01 | 157  | 0.00  | 0.00  | 0.00  | -0.03 | 0.04  | 0.00  |
| 127   | 162  | -0.03 | -0.15 | -0.10 | -0.05 | -0.23 | -0.05 | 301  | -0.01 | -0.03 | -0.39 | 0.01  | 0.06  | -0.05 |
|       | 18   | -0.03 | -0.15 | -0.13 | 0.08  | 0.41  | 0.05  | 283  | -0.01 | -0.03 | -0.41 | -0.06 | -0.32 | 0.05  |
| 128   | 163  | -0.07 | -0.09 | -1.03 | 0.06  | 0.31  | -0.01 | 304  | -0.06 | -0.07 | -1.51 | -0.01 | -0.06 | -0.01 |
|       | 19   | -0.07 | -0.09 | -0.74 | -0.16 | -0.79 | 0.00  | 22   | -0.06 | -0.07 | -1.23 | -0.09 | -0.46 | 0.00  |
| 129   | 164  | 0.06  | 0.23  | -1.29 | 0.18  | 0.90  | -0.05 | 310  | -0.04 | -0.30 | -0.95 | -0.04 | -0.22 | -0.05 |
|       | 11   | 0.06  | 0.23  | -1.11 | -0.09 | -0.47 | 0.05  | 307  | -0.04 | -0.30 | -0.77 | 0.03  | 0.14  | 0.05  |
| 130   | 166  | -0.16 | -0.67 | -0.61 | 0.06  | 0.29  | 0.09  | 316  | 0.00  | 0.12  | -0.27 | -0.02 | -0.10 | 0.09  |
|       | 165  | -0.16 | -0.67 | -0.91 | -0.21 | -1.05 | -0.09 | 313  | 0.00  | 0.12  | -0.57 | 0.05  | 0.25  | -0.09 |
| 131   | 167  | 0.07  | 0.33  | 1.90  | 0.17  | 0.83  | 0.12  | 319  | -0.03 | -0.15 | 2.26  | -0.06 | -0.28 | 0.12  |
|       | 12   | 0.07  | 0.33  | 2.02  | -0.09 | -0.46 | -0.13 | 82   | -0.03 | -0.15 | 2.37  | 0.36  | 1.78  | -0.13 |
| 132   | 168  | -0.01 | -0.20 | 0.98  | 0.04  | 0.18  | -0.01 | 322  | 0.02  | -0.05 | 1.03  | -0.01 | -0.04 | -0.01 |
|       | 85   | -0.01 | -0.20 | 0.65  | -0.12 | -0.60 | 0.01  | 102  | 0.02  | -0.05 | 0.70  | -0.10 | -0.48 | 0.01  |
| 133   | 169  | -0.01 | -0.11 | 0.36  | 0.03  | 0.17  | -0.01 | 325  | 0.01  | -0.01 | 0.37  | -0.01 | -0.04 | -0.01 |
|       | 105  | -0.01 | -0.11 | 0.23  | -0.05 | -0.24 | 0.01  | 122  | 0.01  | -0.01 | 0.24  | -0.03 | -0.15 | 0.01  |
| 134   | 170  | -0.01 | -0.07 | 0.15  | 0.03  | 0.13  | -0.01 | 328  | 0.00  | 0.01  | 0.16  | -0.01 | -0.03 | -0.01 |
|       | 125  | -0.01 | -0.07 | 0.08  | -0.02 | -0.12 | 0.01  | 142  | 0.00  | 0.01  | 0.09  | -0.01 | -0.06 | 0.01  |
| 135   | 172  | 0.01  | 0.10  | -0.12 | 0.02  | 0.08  | -0.02 | 331  | -0.01 | -0.01 | -0.19 | 0.00  | -0.02 | -0.02 |
|       | 20   | 0.01  | 0.10  | 0.03  | 0.01  | 0.03  | 0.02  | 298  | -0.01 | -0.01 | -0.04 | 0.00  | -0.02 | 0.02  |
| 136   | 173  | 0.01  | 0.06  | -0.09 | 0.04  | 0.22  | -0.02 | 334  | 0.00  | -0.02 | -0.14 | -0.01 | -0.05 | -0.02 |
|       | 21   | 0.01  | 0.06  | -0.03 | 0.01  | 0.03  | 0.02  | 37   | 0.00  | -0.02 | -0.08 | 0.02  | 0.12  | 0.02  |
| 137   | 174  | -0.02 | -0.07 | 0.02  | 0.04  | 0.18  | -0.02 | 337  | 0.00  | 0.03  | 0.01  | -0.01 | -0.04 | -0.02 |
|       | 41   | -0.02 | -0.07 | 0.01  | -0.07 | -0.36 | 0.02  | 59   | 0.00  | 0.03  | 0.00  | -0.07 | -0.34 | 0.02  |
| 138   | 175  | -0.03 | -0.13 | 0.05  | 0.03  | 0.13  | -0.01 | 340  | 0.00  | 0.04  | 0.03  | -0.01 | -0.03 | -0.01 |
|       | 62   | -0.03 | -0.13 | -0.01 | -0.08 | -0.38 | 0.01  | 78   | 0.00  | 0.04  | -0.02 | -0.07 | -0.34 | 0.01  |
| 139   | 176  | -0.03 | -0.14 | 0.08  | 0.03  | 0.16  | 0.03  | 343  | 0.01  | 0.05  | -0.05 | -0.01 | -0.04 | 0.03  |
|       | 81   | -0.03 | -0.14 | 0.03  | -0.09 | -0.47 | -0.04 | 98   | 0.01  | 0.05  | -0.10 | 0.01  | 0.05  | -0.04 |
| 140   | 177  | 0.00  | 0.01  | -0.08 | 0.02  | 0.11  | -0.02 | 346  | 0.00  | 0.00  | -0.07 | 0.00  | -0.02 | -0.02 |
|       | 101  | 0.00  | 0.01  | -0.07 | 0.01  | 0.07  | 0.02  | 118  | 0.00  | 0.00  | -0.05 | 0.01  | 0.05  | 0.02  |
| 141   | 178  | 0.01  | 0.05  | -0.08 | 0.03  | 0.13  | -0.02 | 349  | 0.00  | -0.01 | -0.10 | -0.01 | -0.03 | -0.02 |
|       | 121  | 0.01  | 0.05  | -0.04 | -0.01 | -0.03 | 0.01  | 138  | 0.00  | -0.01 | -0.06 | 0.00  | 0.00  | 0.01  |
| 142   | 179  | 0.01  | 0.05  | -0.08 | 0.02  | 0.12  | -0.01 | 352  | 0.00  | -0.01 | -0.09 | -0.01 | -0.03 | -0.01 |
|       | 141  | 0.01  | 0.05  | -0.04 | -0.01 | -0.04 | 0.01  | 158  | 0.00  | -0.01 | -0.05 | 0.00  | -0.01 | 0.01  |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11    | M22    | M12   | Nodo | S11   | S22   | S12   | M11   | M22    | M12   |
|-------|------|-------|-------|-------|--------|--------|-------|------|-------|-------|-------|-------|--------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq |
| 143   | 162  | -0.03 | -0.09 | 0.38  | 0.03   | 0.17   | 0.01  | 355  | 0.00  | 0.05  | 0.56  | -0.01 | -0.04  | 0.01  |
|       | 18   | -0.03 | -0.09 | 0.40  | -0.04  | -0.19  | -0.02 | 286  | 0.00  | 0.05  | 0.58  | 0.06  | 0.28   | -0.02 |
| 144   | 171  | -0.01 | -0.03 | 0.06  | -0.01  | -0.04  | 0.00  | 358  | 0.00  | 0.02  | 0.08  | 0.00  | 0.01   | 0.00  |
|       | 145  | -0.01 | -0.03 | 0.06  | 0.01   | 0.04   | 0.00  | 149  | 0.00  | 0.02  | 0.09  | -0.01 | -0.05  | 0.00  |
| 145   | 164  | 0.02  | -0.52 | -1.62 | 1.03   | 5.15   | -0.96 | 361  | 0.14  | 0.07  | -1.65 | -4.00 | -19.98 | -0.96 |
|       | 11   | 0.02  | -0.52 | -0.68 | -1.03  | -5.14  | 0.96  | 266  | 0.14  | 0.07  | -0.72 | 1.88  | 9.41   | 0.96  |
| 146   | 181  | -1.10 | -5.44 | 1.76  | 16.74  | 83.71  | -8.60 | 362  | 0.23  | 1.18  | 2.42  | -3.30 | -16.52 | -8.60 |
|       | 13   | -1.10 | -5.44 | -1.22 | -6.86  | -34.28 | 8.59  | 277  | 0.23  | 1.18  | -0.55 | 2.01  | 10.07  | 8.59  |
| 147   | 167  | 0.03  | -0.49 | -1.62 | -1.01  | -5.04  | 0.97  | 363  | 0.14  | 0.05  | -1.60 | 3.99  | 19.93  | 0.97  |
|       | 12   | 0.03  | -0.49 | -0.70 | 1.01   | 5.03   | -0.97 | 280  | 0.14  | 0.05  | -0.68 | -1.86 | -9.32  | -0.97 |
| 148   | 183  | -1.10 | -5.43 | 1.77  | -16.72 | -83.62 | 8.65  | 364  | 0.22  | 1.16  | 2.47  | 3.27  | 16.34  | 8.65  |
|       | 17   | -1.10 | -5.43 | -1.19 | 6.76   | 33.81  | -8.66 | 282  | 0.22  | 1.16  | -0.49 | -1.98 | -9.89  | -8.66 |
| 149   | 182  | -0.33 | -0.49 | -1.84 | 0.31   | 1.54   | -0.20 | 365  | -0.28 | -0.26 | -1.01 | -0.07 | -0.35  | -0.20 |
|       | 16   | -0.33 | -0.49 | -0.49 | -0.76  | -3.80  | 0.20  | 42   | -0.28 | -0.26 | 0.33  | -0.79 | -3.97  | 0.20  |
| 150   | 185  | -0.11 | -0.58 | -0.03 | 0.00   | -0.01  | -0.06 | 368  | -0.12 | -0.62 | 0.48  | -0.01 | -0.03  | -0.06 |
|       | 15   | -0.11 | -0.58 | 0.00  | -0.63  | -3.15  | 0.05  | 63   | -0.12 | -0.62 | 0.50  | -0.74 | -3.70  | 0.05  |
| 151   | 217  | -0.06 | 0.02  | 0.24  | -2.05  | -0.56  | -0.29 | 218  | -0.06 | 0.03  | 0.17  | -3.32 | -0.61  | -0.60 |
|       | 213  | -0.21 | -0.01 | 0.05  | -1.73  | -0.22  | -0.51 | 214  | -0.21 | 0.00  | -0.02 | -2.71 | -0.12  | -0.82 |
| 152   | 218  | -0.10 | 0.03  | 0.15  | -3.99  | -0.74  | -1.26 | 219  | -0.10 | 0.06  | 0.11  | -0.87 | -1.38  | -1.54 |
|       | 214  | -0.43 | -0.03 | 0.03  | -2.39  | -0.06  | -0.48 | 215  | -0.42 | 0.00  | -0.01 | -1.43 | -0.40  | -0.76 |
| 153   | 219  | -0.17 | 0.05  | 0.09  | -0.03  | -1.21  | -2.58 | 220  | -0.14 | 0.18  | 0.00  | 5.17  | -5.97  | -1.58 |
|       | 215  | -0.51 | -0.02 | -0.01 | -1.25  | -0.36  | 0.61  | 2    | -0.49 | 0.11  | -0.09 | 5.11  | -0.61  | 1.61  |
| 154   | 3    | -0.03 | 0.16  | 0.15  | 2.92   | 0.96   | -0.65 | 221  | -0.05 | 0.02  | 0.17  | -2.05 | -1.42  | -0.63 |
|       | 216  | -0.10 | 0.15  | 0.08  | 2.73   | 0.43   | -0.04 | 217  | -0.13 | 0.00  | 0.10  | -1.85 | -0.51  | -0.01 |
| 155   | 221  | 0.07  | 0.08  | 0.16  | -1.86  | -1.38  | -0.13 | 222  | 0.06  | 0.04  | 0.14  | -3.72 | -1.56  | -0.07 |
|       | 217  | -0.07 | 0.05  | 0.15  | -2.05  | -0.55  | -0.45 | 218  | -0.08 | 0.02  | 0.13  | -3.24 | -0.24  | -0.39 |
| 156   | 222  | 0.13  | 0.06  | 0.17  | -2.59  | -1.34  | 1.46  | 223  | 0.15  | 0.15  | 0.13  | -6.36 | 3.88   | -0.54 |
|       | 218  | -0.12 | 0.01  | 0.12  | -3.92  | -0.37  | -0.93 | 219  | -0.10 | 0.10  | 0.08  | -0.64 | -0.22  | -2.93 |
| 157   | 223  | 0.15  | 0.15  | 0.10  | -7.87  | 3.58   | -2.11 | 4    | 0.16  | 0.24  | 0.05  | 26.48 | 28.04  | 0.17  |
|       | 219  | -0.17 | 0.09  | 0.06  | 0.20   | -0.06  | -5.52 | 220  | -0.16 | 0.17  | 0.01  | 4.58  | -8.95  | -3.25 |
| 158   | 227  | -0.10 | 0.06  | -0.12 | -0.87  | -1.38  | 1.55  | 228  | -0.10 | 0.03  | -0.15 | -3.97 | -0.73  | 1.26  |
|       | 224  | -0.42 | 0.00  | 0.00  | -1.43  | -0.40  | 0.76  | 225  | -0.43 | -0.03 | -0.03 | -2.37 | -0.06  | 0.48  |
| 159   | 228  | -0.06 | 0.03  | -0.17 | -3.30  | -0.60  | 0.59  | 229  | -0.06 | 0.02  | -0.24 | -2.02 | -0.55  | 0.28  |
|       | 225  | -0.21 | 0.00  | 0.02  | -2.68  | -0.12  | 0.81  | 226  | -0.21 | 0.00  | -0.05 | -1.70 | -0.21  | 0.50  |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22    | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 160   | 229  | -0.19 | 0.04  | -0.19 | -1.83 | -0.52  | 0.58  | 230  | -0.20 | -0.01 | -0.42 | 2.64  | 0.17  | -0.27 |
|       | 226  | 0.25  | 0.13  | 0.03  | -1.99 | -0.27  | 0.58  | 5    | 0.24  | 0.07  | -0.20 | 5.24  | 1.37  | -0.27 |
| 161   | 4    | 0.16  | 0.24  | -0.05 | 26.47 | 28.04  | -0.16 | 231  | 0.15  | 0.15  | -0.10 | -7.86 | 3.58  | 2.11  |
|       | 220  | -0.15 | 0.17  | -0.01 | 4.58  | -8.95  | 3.25  | 227  | -0.17 | 0.08  | -0.06 | 0.20  | -0.05 | 5.52  |
| 162   | 231  | 0.15  | 0.15  | -0.14 | -6.36 | 3.88   | 0.55  | 232  | 0.13  | 0.06  | -0.17 | -2.58 | -1.32 | -1.45 |
|       | 227  | -0.10 | 0.10  | -0.09 | -0.64 | -0.22  | 2.93  | 228  | -0.12 | 0.01  | -0.12 | -3.90 | -0.36 | 0.93  |
| 163   | 232  | 0.06  | 0.04  | -0.14 | -3.70 | -1.55  | 0.07  | 233  | 0.07  | 0.08  | -0.16 | -1.84 | -1.36 | 0.12  |
|       | 228  | -0.08 | 0.02  | -0.14 | -3.22 | -0.23  | 0.39  | 229  | -0.07 | 0.06  | -0.15 | -2.02 | -0.53 | 0.44  |
| 164   | 233  | -0.05 | 0.02  | -0.17 | -2.02 | -1.40  | 0.62  | 6    | -0.02 | 0.17  | -0.15 | 2.91  | 0.97  | 0.65  |
|       | 229  | -0.13 | 0.00  | -0.10 | -1.82 | -0.50  | 0.01  | 230  | -0.10 | 0.15  | -0.08 | 2.69  | 0.42  | 0.04  |
| 165   | 235  | 0.34  | 0.19  | -0.16 | -2.31 | 1.25   | -4.61 | 236  | 0.31  | 0.05  | -0.14 | -2.12 | -0.94 | -1.27 |
|       | 231  | 0.15  | 0.15  | -0.06 | -6.57 | 2.83   | -2.72 | 232  | 0.13  | 0.01  | -0.04 | -2.61 | -1.47 | 0.62  |
| 166   | 236  | 0.14  | 0.02  | -0.10 | -1.88 | -0.89  | -0.70 | 237  | 0.14  | 0.04  | -0.10 | -1.10 | -0.96 | 0.88  |
|       | 232  | 0.05  | 0.01  | -0.02 | -3.73 | -1.70  | -0.66 | 233  | 0.05  | 0.02  | -0.02 | -1.82 | -1.27 | 0.93  |
| 167   | 237  | -0.05 | 0.05  | -0.04 | -0.99 | -0.94  | 1.25  | 238  | -0.05 | 0.05  | 0.02  | 1.42  | 0.78  | 0.90  |
|       | 233  | -0.12 | 0.04  | -0.03 | -2.00 | -1.30  | 0.86  | 6    | -0.12 | 0.03  | 0.03  | 2.69  | -0.11 | 0.52  |
| 168   | 7    | 0.98  | 0.44  | -0.21 | -2.58 | -12.74 | 0.47  | 239  | 0.93  | 0.22  | 0.05  | -0.65 | -3.52 | -3.65 |
|       | 234  | 0.45  | 0.34  | -0.10 | 8.14  | -1.81  | -2.92 | 235  | 0.41  | 0.12  | 0.16  | -2.28 | 0.40  | -7.04 |
| 169   | 239  | 0.47  | 0.18  | -0.05 | -0.71 | -3.53  | -3.38 | 240  | 0.44  | 0.03  | -0.05 | 0.95  | 3.76  | -0.23 |
|       | 235  | 0.33  | 0.15  | 0.08  | -2.49 | 0.36   | -4.76 | 236  | 0.30  | 0.00  | 0.08  | -2.17 | -1.18 | -1.60 |
| 170   | 240  | 0.13  | -0.03 | 0.06  | 0.59  | 3.69   | -1.04 | 241  | 0.14  | 0.02  | 0.00  | 0.97  | 2.82  | 0.90  |
|       | 236  | 0.12  | -0.04 | 0.12  | -1.92 | -1.14  | -0.84 | 237  | 0.14  | 0.02  | 0.06  | -1.07 | -0.78 | 1.09  |
| 171   | 241  | 0.03  | 0.03  | 0.10  | 0.05  | 2.63   | 0.79  | 8    | 0.02  | -0.01 | 0.04  | 0.44  | 0.21  | 0.43  |
|       | 237  | -0.05 | 0.01  | 0.12  | -0.96 | -0.76  | 1.41  | 238  | -0.06 | -0.03 | 0.07  | 1.22  | -0.22 | 1.05  |
| 172   | 243  | 0.14  | 0.04  | 0.10  | -1.13 | -0.97  | -0.89 | 244  | 0.14  | 0.02  | 0.09  | -1.87 | -0.90 | 0.70  |
|       | 221  | 0.05  | 0.02  | 0.02  | -1.85 | -1.29  | -0.94 | 222  | 0.05  | 0.01  | 0.01  | -3.75 | -1.71 | 0.66  |
| 173   | 244  | 0.31  | 0.05  | 0.13  | -2.13 | -0.95  | 1.27  | 245  | 0.34  | 0.19  | 0.16  | -2.31 | 1.25  | 4.61  |
|       | 222  | 0.12  | 0.01  | 0.04  | -2.62 | -1.49  | -0.62 | 223  | 0.15  | 0.15  | 0.06  | -6.57 | 2.83  | 2.72  |
| 174   | 245  | 0.42  | 0.21  | 0.08  | -2.11 | 1.29   | 8.11  | 234  | 0.44  | 0.33  | 0.09  | 7.72  | -3.94 | 3.97  |
|       | 223  | 0.15  | 0.15  | 0.03  | -8.08 | 2.53   | 4.34  | 4    | 0.17  | 0.28  | 0.05  | 27.15 | 31.39 | 0.20  |
| 175   | 9    | 0.02  | -0.02 | -0.04 | 0.50  | 0.20   | -0.44 | 246  | 0.03  | 0.03  | -0.10 | -0.02 | 2.65  | -0.81 |
|       | 242  | -0.06 | -0.03 | -0.06 | 1.23  | -0.19  | -1.06 | 243  | -0.05 | 0.01  | -0.12 | -0.97 | -0.78 | -1.42 |
| 176   | 246  | 0.14  | 0.02  | 0.00  | 1.04  | 2.86   | -0.91 | 247  | 0.13  | -0.04 | -0.07 | 0.53  | 3.70  | 1.04  |
|       | 243  | 0.13  | 0.02  | -0.06 | -1.10 | -0.80  | -1.10 | 244  | 0.12  | -0.04 | -0.13 | -1.92 | -1.14 | 0.84  |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 177   | 247  | 0.44              | 0.03              | 0.05              | 1.00              | 3.79              | 0.23              | 248  | 0.47              | 0.17              | 0.05              | -0.75             | -3.52             | 3.39              |
|       | 244  | 0.29              | 0.00              | -0.08             | -2.18             | -1.19             | 1.61              | 245  | 0.32              | 0.15              | -0.08             | -2.49             | 0.36              | 4.77              |
| 178   | 248  | 0.93              | 0.22              | -0.05             | -0.62             | -3.50             | 3.66              | 7    | 0.97              | 0.44              | 0.21              | -2.61             | -12.75            | -0.46             |
|       | 245  | 0.41              | 0.12              | -0.16             | -2.29             | 0.40              | 7.05              | 234  | 0.45              | 0.34              | 0.10              | 8.15              | -1.81             | 2.93              |
| 179   | 254  | -0.06             | 0.12              | 0.05              | 0.04              | -0.10             | 0.09              | 255  | -0.10             | -0.09             | -0.24             | -0.04             | 0.36              | -0.07             |
|       | 249  | 0.04              | 0.14              | 0.19              | -0.05             | 0.08              | 0.17              | 250  | 0.00              | -0.07             | -0.11             | 0.07              | -0.73             | 0.01              |
| 180   | 255  | 0.16              | 0.25              | -0.24             | -0.05             | 0.36              | 0.25              | 256  | -0.02             | -0.65             | -0.06             | 0.37              | 0.31              | 0.33              |
|       | 250  | 0.26              | 0.27              | 0.11              | 0.11              | -0.72             | -0.65             | 2    | 0.08              | -0.63             | 0.29              | 0.51              | 3.49              | -0.56             |
| 181   | 256  | -0.02             | -0.64             | 0.06              | 0.37              | 0.32              | -0.34             | 257  | 0.16              | 0.25              | 0.24              | -0.05             | 0.36              | -0.25             |
|       | 2    | 0.10              | -0.62             | -0.29             | 0.50              | 3.49              | 0.56              | 251  | 0.28              | 0.27              | -0.10             | 0.12              | -0.72             | 0.65              |
| 182   | 257  | -0.10             | -0.09             | 0.25              | -0.04             | 0.36              | 0.07              | 258  | -0.06             | 0.12              | -0.04             | 0.04              | -0.11             | -0.09             |
|       | 251  | 0.00              | -0.07             | 0.10              | 0.07              | -0.73             | -0.01             | 252  | 0.04              | 0.14              | -0.18             | -0.05             | 0.09              | -0.17             |
| 183   | 258  | 0.24              | -0.15             | -0.07             | 0.06              | -0.10             | 0.04              | 259  | 0.26              | -0.06             | -0.33             | -0.27             | -0.12             | -0.13             |
|       | 252  | -0.73             | -0.35             | 0.69              | -0.11             | 0.07              | -0.02             | 5    | -0.72             | -0.26             | 0.43              | 0.26              | 0.38              | -0.19             |
| 184   | 11   | 0.17              | 0.07              | 0.28              | 0.30              | 1.52              | -0.07             | 260  | 0.09              | -0.32             | 0.57              | -0.08             | -0.38             | 0.06              |
|       | 253  | 0.31              | 0.10              | -0.49             | -0.44             | -1.00             | 0.10              | 254  | 0.23              | -0.30             | -0.20             | 0.12              | 0.20              | 0.23              |
| 185   | 260  | 0.06              | 0.05              | -0.31             | -0.08             | -0.38             | 0.14              | 261  | 0.05              | 0.01              | 0.00              | 0.05              | 0.25              | 0.18              |
|       | 254  | -0.08             | 0.02              | -0.22             | 0.10              | 0.20              | 0.02              | 255  | -0.09             | -0.02             | 0.10              | -0.10             | 0.09              | 0.06              |
| 186   | 261  | 0.02              | 0.27              | -0.27             | 0.05              | 0.25              | 0.13              | 165  | -0.19             | -0.77             | -0.43             | -0.16             | -0.81             | -0.01             |
|       | 255  | 0.17              | 0.30              | 0.10              | -0.10             | 0.08              | 0.26              | 256  | -0.04             | -0.74             | -0.06             | 0.43              | 0.66              | 0.12              |
| 187   | 165  | -0.19             | -0.77             | 0.43              | -0.16             | -0.81             | 0.01              | 262  | 0.02              | 0.27              | 0.28              | 0.05              | 0.25              | -0.13             |
|       | 256  | -0.03             | -0.74             | 0.05              | 0.43              | 0.66              | -0.12             | 257  | 0.18              | 0.30              | -0.10             | -0.11             | 0.08              | -0.26             |
| 188   | 262  | 0.05              | 0.01              | 0.01              | 0.05              | 0.25              | -0.18             | 263  | 0.05              | 0.04              | 0.32              | -0.08             | -0.38             | -0.14             |
|       | 257  | -0.09             | -0.02             | -0.10             | -0.10             | 0.09              | -0.06             | 258  | -0.08             | 0.02              | 0.22              | 0.10              | 0.19              | -0.02             |
| 189   | 263  | 0.09              | -0.33             | -0.55             | -0.08             | -0.38             | -0.06             | 12   | 0.17              | 0.10              | -0.26             | 0.30              | 1.49              | 0.06              |
|       | 258  | 0.22              | -0.30             | 0.19              | 0.12              | 0.20              | -0.22             | 259  | 0.31              | 0.13              | 0.48              | -0.44             | -1.00             | -0.10             |
| 190   | 264  | 0.20              | -0.37             | -0.50             | 0.58              | 0.29              | 0.22              | 265  | 0.15              | -0.61             | -0.10             | -0.52             | 0.12              | 0.13              |
|       | 216  | 0.09              | -0.39             | -0.37             | 0.87              | 3.39              | 0.37              | 3    | 0.04              | -0.63             | 0.03              | 0.48              | 2.73              | 0.28              |
| 191   | 11   | 0.02              | 0.47              | -0.37             | 0.36              | 1.80              | -0.10             | 266  | -0.13             | -0.27             | -0.80             | -0.08             | -0.42             | -0.12             |
|       | 253  | -0.02             | 0.47              | 0.23              | -0.77             | -0.62             | 0.32              | 264  | -0.16             | -0.27             | -0.20             | 0.75              | 0.33              | 0.30              |
| 192   | 266  | -0.11             | -0.34             | -0.39             | -0.08             | -0.42             | -0.75             | 13   | -0.26             | -1.09             | -0.54             | -1.06             | -5.30             | -0.74             |
|       | 264  | 0.22              | -0.28             | -0.22             | 0.58              | 0.30              | 0.44              | 265  | 0.07              | -1.02             | -0.37             | -0.42             | 0.58              | 0.45              |
| 193   | 268  | 0.20              | -0.38             | -0.34             | -0.52             | -0.86             | 0.09              | 269  | 0.15              | -0.60             | 0.12              | -0.39             | -0.63             | -0.24             |
|       | 241  | 0.01              | -0.41             | -0.41             | 0.03              | -1.37             | 0.04              | 240  | -0.04             | -0.64             | 0.06              | -0.66             | -1.54             | -0.29             |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 194   | 269  | 0.21  | -0.61 | -0.23 | -0.52 | -0.66 | 0.49  | 270  | 0.33  | 0.00  | 0.01  | 0.17  | 0.41  | 0.35  |
|       | 240  | 0.27  | -0.59 | -0.70 | 0.22  | -1.37 | -1.18 | 239  | 0.39  | 0.02  | -0.46 | 0.11  | 3.30  | -1.32 |
| 195   | 270  | 0.18  | -0.16 | 0.01  | -0.03 | 0.37  | 0.34  | 271  | 0.40  | 0.90  | -0.18 | 0.76  | 0.51  | 0.67  |
|       | 239  | 0.91  | -0.02 | -0.47 | 1.04  | 3.48  | -1.29 | 7    | 1.13  | 1.05  | -0.67 | 1.46  | 9.07  | -0.96 |
| 196   | 14   | 0.36  | 0.38  | -0.13 | -0.72 | -3.59 | -0.33 | 65   | 0.12  | -0.78 | 0.65  | -0.19 | -0.94 | -0.24 |
|       | 267  | 0.47  | 0.41  | -0.84 | 0.45  | 1.38  | -0.35 | 268  | 0.24  | -0.76 | -0.07 | -0.58 | -1.29 | -0.26 |
| 197   | 65   | -0.05 | -0.27 | -0.26 | -0.19 | -0.94 | -0.20 | 64   | -0.09 | -0.48 | -0.16 | -0.29 | -1.45 | 0.16  |
|       | 268  | 0.26  | -0.21 | -0.26 | -0.61 | -1.29 | -0.20 | 269  | 0.22  | -0.42 | -0.16 | -0.41 | -0.76 | 0.16  |
| 198   | 64   | -0.10 | -0.47 | -0.32 | -0.29 | -1.45 | 0.12  | 63   | -0.01 | -0.04 | -0.34 | -0.59 | -2.97 | 0.30  |
|       | 269  | 0.26  | -0.39 | -0.52 | -0.55 | -0.79 | 0.27  | 270  | 0.35  | 0.04  | -0.53 | 0.16  | 0.33  | 0.44  |
| 199   | 63   | 0.00  | -0.07 | -0.36 | -0.59 | -2.97 | 0.32  | 15   | 0.08  | 0.35  | -0.01 | -0.83 | -4.15 | -0.01 |
|       | 270  | 0.17  | -0.04 | -0.53 | -0.05 | 0.29  | 0.48  | 271  | 0.26  | 0.39  | -0.18 | 0.87  | 1.04  | 0.16  |
| 200   | 272  | 0.33  | 0.00  | -0.02 | 0.18  | 0.40  | -0.35 | 273  | 0.21  | -0.61 | 0.24  | -0.53 | -0.67 | -0.49 |
|       | 248  | 0.39  | 0.01  | 0.46  | 0.09  | 3.29  | 1.32  | 247  | 0.27  | -0.60 | 0.72  | 0.23  | -1.38 | 1.19  |
| 201   | 273  | 0.15  | -0.61 | -0.15 | -0.39 | -0.65 | 0.25  | 274  | 0.20  | -0.38 | 0.34  | -0.54 | -0.89 | -0.09 |
|       | 247  | -0.04 | -0.64 | -0.06 | -0.67 | -1.56 | 0.30  | 246  | 0.01  | -0.42 | 0.43  | 0.04  | -1.37 | -0.04 |
| 202   | 274  | 0.02  | -0.46 | 0.13  | -0.50 | -0.88 | 0.13  | 275  | 0.15  | 0.17  | 0.05  | 0.11  | -0.30 | 0.09  |
|       | 246  | -0.11 | -0.49 | 0.02  | -0.51 | -1.48 | -0.44 | 9    | 0.02  | 0.14  | -0.07 | 0.13  | 0.09  | -0.48 |
| 203   | 15   | 0.08  | 0.35  | 0.02  | -0.83 | -4.15 | 0.00  | 44   | 0.00  | -0.07 | 0.37  | -0.60 | -2.98 | -0.32 |
|       | 271  | 0.26  | 0.39  | 0.18  | 0.87  | 1.04  | -0.16 | 272  | 0.17  | -0.04 | 0.53  | -0.05 | 0.28  | -0.48 |
| 204   | 44   | -0.01 | -0.04 | 0.33  | -0.60 | -2.98 | -0.30 | 43   | -0.10 | -0.47 | 0.33  | -0.29 | -1.44 | -0.13 |
|       | 272  | 0.35  | 0.04  | 0.52  | 0.16  | 0.32  | -0.45 | 273  | 0.26  | -0.39 | 0.52  | -0.56 | -0.83 | -0.27 |
| 205   | 43   | -0.09 | -0.49 | 0.13  | -0.29 | -1.44 | -0.18 | 42   | -0.04 | -0.25 | 0.28  | -0.22 | -1.12 | 0.18  |
|       | 273  | 0.22  | -0.43 | 0.14  | -0.42 | -0.80 | -0.15 | 274  | 0.27  | -0.18 | 0.28  | -0.61 | -1.24 | 0.21  |
| 206   | 42   | 0.15  | -0.80 | -0.78 | -0.22 | -1.12 | 0.30  | 16   | 0.39  | 0.37  | 0.08  | -0.62 | -3.11 | 0.39  |
|       | 274  | 0.27  | -0.78 | 0.08  | -0.57 | -1.23 | 0.22  | 275  | 0.51  | 0.39  | 0.94  | 0.40  | 1.14  | 0.31  |
| 207   | 276  | 0.05  | -0.30 | 0.24  | -0.03 | -0.38 | -0.27 | 275  | 0.16  | 0.29  | -0.05 | -0.15 | 1.36  | -0.39 |
|       | 242  | -0.11 | -0.33 | 0.27  | -0.07 | 1.62  | 0.31  | 9    | 0.01  | 0.26  | -0.02 | 0.09  | -1.32 | 0.19  |
| 208   | 13   | -0.13 | -1.24 | -0.02 | -1.06 | -5.30 | 0.74  | 277  | -0.03 | -0.72 | 0.23  | -0.30 | -1.48 | 0.94  |
|       | 265  | 0.41  | -1.13 | -0.18 | -0.40 | 0.59  | -0.75 | 276  | 0.51  | -0.62 | 0.07  | -0.02 | 0.11  | -0.55 |
| 209   | 277  | 0.29  | -0.93 | -0.13 | -0.30 | -1.48 | 0.89  | 16   | 0.81  | 1.67  | 0.55  | 0.80  | 4.02  | 1.03  |
|       | 276  | 0.39  | -0.91 | 0.04  | 0.08  | 0.13  | -0.62 | 275  | 0.91  | 1.69  | 0.72  | -0.87 | -2.20 | -0.48 |
| 210   | 278  | 0.21  | -0.36 | -0.52 | -0.59 | -0.29 | -0.23 | 279  | 0.16  | -0.61 | -0.11 | 0.55  | -0.09 | -0.13 |
|       | 230  | 0.10  | -0.39 | -0.38 | -0.88 | -3.34 | -0.38 | 6    | 0.05  | -0.63 | 0.04  | -0.46 | -2.71 | -0.28 |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 211   | 12   | 0.03              | 0.50              | -0.39             | -0.34             | -1.71             | 0.09              | 280  | -0.13             | -0.27             | -0.81             | 0.06              | 0.32              | 0.12              |
|       | 259  | 0.00              | 0.50              | 0.21              | 0.75              | 0.54              | -0.31             | 278  | -0.16             | -0.28             | -0.20             | -0.74             | -0.27             | -0.28             |
| 212   | 280  | -0.11             | -0.34             | -0.41             | 0.06              | 0.32              | 0.79              | 17   | -0.26             | -1.10             | -0.55             | 1.10              | 5.52              | 0.77              |
|       | 278  | 0.23              | -0.27             | -0.23             | -0.58             | -0.24             | -0.46             | 279  | 0.07              | -1.03             | -0.37             | 0.44              | -0.61             | -0.48             |
| 213   | 281  | 0.04              | -0.29             | 0.24              | 0.01              | 0.36              | 0.28              | 267  | 0.15              | 0.29              | -0.07             | 0.14              | -1.22             | 0.39              |
|       | 238  | -0.11             | -0.32             | 0.29              | 0.07              | -1.59             | -0.30             | 8    | 0.01              | 0.26              | -0.02             | -0.11             | 1.20              | -0.19             |
| 214   | 17   | -0.13             | -1.25             | -0.04             | 1.10              | 5.52              | -0.80             | 282  | -0.02             | -0.72             | 0.24              | 0.26              | 1.30              | -1.01             |
|       | 279  | 0.43              | -1.14             | -0.19             | 0.43              | -0.61             | 0.80              | 281  | 0.54              | -0.61             | 0.09              | 0.02              | 0.01              | 0.59              |
| 215   | 282  | 0.35              | -0.96             | -0.24             | 0.26              | 1.30              | -0.84             | 14   | 0.88              | 1.71              | 0.54              | -0.69             | -3.46             | -0.96             |
|       | 281  | 0.44              | -0.94             | 0.05              | -0.06             | -0.01             | 0.54              | 267  | 0.97              | 1.73              | 0.83              | 0.75              | 1.85              | 0.43              |
| 216   | 287  | 0.00              | 0.00              | 0.00              | -0.13             | -0.32             | 0.20              | 288  | 0.00              | 0.00              | 0.00              | -0.26             | -0.53             | 0.18              |
|       | 283  | 0.00              | 0.00              | 0.00              | -0.03             | 0.54              | 0.10              | 284  | 0.00              | 0.00              | 0.00              | 0.17              | 0.87              | 0.08              |
| 217   | 288  | 0.00              | 0.00              | 0.00              | -0.19             | -0.52             | 0.18              | 289  | 0.00              | 0.00              | 0.00              | -0.31             | -0.68             | 0.15              |
|       | 284  | 0.00              | 0.00              | 0.00              | -0.04             | 0.83              | 0.10              | 285  | 0.00              | 0.00              | 0.00              | 0.29              | 1.14              | 0.07              |
| 218   | 289  | 0.00              | 0.00              | 0.00              | -0.19             | -0.66             | 0.16              | 25   | 0.00              | 0.00              | 0.00              | -0.66             | -0.95             | 0.06              |
|       | 285  | 0.00              | 0.00              | 0.00              | -0.10             | 1.06              | 0.11              | 19   | 0.00              | 0.00              | 0.00              | 0.55              | 1.45              | 0.01              |
| 219   | 290  | 0.00              | 0.00              | 0.00              | 0.36              | -0.09             | -0.13             | 291  | 0.00              | 0.00              | 0.00              | -0.02             | 0.01              | -0.13             |
|       | 286  | 0.00              | 0.00              | 0.00              | 0.58              | 0.28              | 0.12              | 287  | 0.00              | 0.00              | 0.00              | -0.27             | -0.36             | 0.12              |
| 220   | 291  | 0.00              | 0.00              | 0.00              | -0.02             | 0.01              | -0.08             | 292  | 0.00              | 0.00              | 0.00              | -0.10             | -0.06             | -0.05             |
|       | 287  | 0.00              | 0.00              | 0.00              | -0.13             | -0.33             | 0.10              | 288  | 0.00              | 0.00              | 0.00              | -0.26             | -0.51             | 0.12              |
| 221   | 292  | 0.00              | 0.00              | 0.00              | -0.09             | -0.06             | -0.03             | 293  | 0.00              | 0.00              | 0.00              | -0.14             | -0.09             | -0.02             |
|       | 288  | 0.00              | 0.00              | 0.00              | -0.18             | -0.50             | 0.09              | 289  | 0.00              | 0.00              | 0.00              | -0.31             | -0.65             | 0.10              |
| 222   | 293  | 0.00              | 0.00              | 0.00              | -0.15             | -0.09             | 0.04              | 29   | 0.00              | 0.00              | 0.00              | -0.40             | -0.14             | 0.04              |
|       | 289  | 0.00              | 0.00              | 0.00              | -0.19             | -0.63             | 0.04              | 25   | 0.00              | 0.00              | 0.00              | -0.61             | -0.72             | 0.05              |
| 223   | 294  | 0.00              | 0.00              | 0.00              | 0.07              | -0.05             | -0.02             | 295  | 0.00              | 0.00              | 0.00              | 0.02              | 0.04              | -0.07             |
|       | 290  | 0.00              | 0.00              | 0.00              | 0.41              | 0.14              | -0.04             | 291  | 0.00              | 0.00              | 0.00              | -0.03             | -0.04             | -0.09             |
| 224   | 295  | 0.00              | 0.00              | 0.00              | 0.03              | 0.04              | -0.08             | 296  | 0.00              | 0.00              | 0.00              | -0.01             | 0.06              | -0.05             |
|       | 291  | 0.00              | 0.00              | 0.00              | -0.03             | -0.04             | -0.07             | 292  | 0.00              | 0.00              | 0.00              | -0.10             | -0.08             | -0.05             |
| 225   | 296  | 0.00              | 0.00              | 0.00              | 0.00              | 0.06              | -0.06             | 297  | 0.00              | 0.00              | 0.00              | -0.02             | 0.07              | -0.03             |
|       | 292  | 0.00              | 0.00              | 0.00              | -0.10             | -0.08             | -0.04             | 293  | 0.00              | 0.00              | 0.00              | -0.15             | -0.13             | 0.00              |
| 226   | 297  | 0.00              | 0.00              | 0.00              | -0.02             | 0.07              | -0.05             | 33   | 0.00              | 0.00              | 0.00              | -0.10             | -0.01             | 0.03              |
|       | 293  | 0.00              | 0.00              | 0.00              | -0.15             | -0.13             | 0.01              | 29   | 0.00              | 0.00              | 0.00              | -0.41             | -0.19             | 0.09              |
| 227   | 20   | 0.00              | 0.00              | 0.00              | -0.10             | -0.17             | 0.00              | 298  | 0.00              | 0.00              | 0.00              | 0.04              | -0.04             | -0.02             |
|       | 294  | 0.00              | 0.00              | 0.00              | 0.11              | 0.12              | -0.03             | 295  | 0.00              | 0.00              | 0.00              | 0.02              | 0.04              | -0.06             |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 228   | 298  | 0.00  | 0.00  | 0.00  | -0.06 | -0.06 | -0.01 | 299  | 0.00  | 0.00  | 0.00  | 0.05  | -0.01 | -0.01 |
|       | 295  | 0.00  | 0.00  | 0.00  | 0.03  | 0.04  | -0.06 | 296  | 0.00  | 0.00  | 0.00  | 0.00  | 0.06  | -0.06 |
| 229   | 299  | 0.00  | 0.00  | 0.00  | -0.02 | -0.02 | -0.02 | 300  | 0.00  | 0.00  | 0.00  | 0.03  | 0.03  | 0.00  |
|       | 296  | 0.00  | 0.00  | 0.00  | 0.00  | 0.06  | -0.05 | 297  | 0.00  | 0.00  | 0.00  | -0.02 | 0.06  | -0.04 |
| 230   | 300  | 0.00  | 0.00  | 0.00  | 0.00  | 0.02  | -0.02 | 21   | 0.00  | 0.00  | 0.00  | -0.01 | -0.01 | 0.00  |
|       | 297  | 0.00  | 0.00  | 0.00  | -0.02 | 0.06  | -0.02 | 33   | 0.00  | 0.00  | 0.00  | -0.08 | 0.07  | 0.00  |
| 231   | 301  | 0.00  | -0.04 | -0.37 | 0.01  | 0.06  | -0.02 | 302  | -0.01 | -0.06 | -0.55 | 0.00  | 0.00  | -0.02 |
|       | 283  | 0.00  | -0.04 | -0.35 | -0.06 | -0.32 | 0.02  | 284  | -0.01 | -0.06 | -0.53 | -0.09 | -0.46 | 0.02  |
| 232   | 302  | 0.00  | -0.11 | -0.67 | 0.00  | 0.00  | -0.03 | 303  | 0.02  | -0.03 | -0.78 | -0.01 | -0.06 | -0.03 |
|       | 284  | 0.00  | -0.11 | -0.56 | -0.09 | -0.46 | 0.03  | 285  | 0.02  | -0.03 | -0.68 | -0.13 | -0.63 | 0.03  |
| 233   | 303  | 0.02  | -0.06 | -1.17 | -0.01 | -0.06 | 0.02  | 163  | -0.03 | -0.29 | -1.11 | 0.06  | 0.31  | 0.02  |
|       | 285  | 0.02  | -0.06 | -0.77 | -0.13 | -0.63 | -0.03 | 19   | -0.03 | -0.29 | -0.71 | -0.16 | -0.79 | -0.03 |
| 234   | 304  | -0.04 | -0.17 | -1.37 | -0.01 | -0.06 | 0.10  | 305  | -0.03 | -0.11 | -1.73 | 0.02  | 0.09  | 0.10  |
|       | 22   | -0.04 | -0.17 | -1.32 | -0.09 | -0.46 | -0.11 | 23   | -0.03 | -0.11 | -1.68 | 0.04  | 0.20  | -0.11 |
| 235   | 305  | -0.03 | -0.13 | -1.82 | 0.02  | 0.09  | 0.15  | 306  | -0.03 | -0.13 | -2.08 | -0.06 | -0.30 | 0.15  |
|       | 23   | -0.03 | -0.13 | -1.79 | 0.04  | 0.20  | -0.15 | 24   | -0.03 | -0.13 | -2.06 | 0.36  | 1.79  | -0.15 |
| 236   | 306  | -0.03 | -0.12 | -2.22 | -0.06 | -0.30 | -0.14 | 164  | 0.06  | 0.31  | -1.91 | 0.18  | 0.90  | -0.14 |
|       | 24   | -0.03 | -0.12 | -2.33 | 0.36  | 1.79  | 0.13  | 11   | 0.06  | 0.31  | -2.02 | -0.09 | -0.47 | 0.13  |
| 237   | 310  | -0.05 | -0.17 | -0.69 | -0.04 | -0.22 | 0.00  | 311  | -0.02 | -0.05 | -0.36 | 0.02  | 0.08  | 0.00  |
|       | 307  | -0.05 | -0.17 | -0.61 | 0.03  | 0.14  | -0.01 | 308  | -0.02 | -0.05 | -0.28 | -0.02 | -0.09 | -0.01 |
| 238   | 311  | -0.02 | -0.21 | -0.17 | 0.02  | 0.08  | 0.01  | 312  | 0.00  | -0.10 | 0.16  | -0.02 | -0.11 | 0.01  |
|       | 308  | -0.02 | -0.21 | -0.04 | -0.02 | -0.09 | -0.02 | 309  | 0.00  | -0.10 | 0.29  | 0.05  | 0.25  | -0.02 |
| 239   | 312  | 0.00  | 0.12  | 0.30  | -0.02 | -0.11 | -0.09 | 166  | -0.16 | -0.66 | 0.64  | 0.06  | 0.29  | -0.09 |
|       | 309  | 0.00  | 0.12  | 0.58  | 0.05  | 0.25  | 0.08  | 165  | -0.16 | -0.66 | 0.91  | -0.21 | -1.05 | 0.08  |
| 240   | 316  | 0.01  | -0.09 | -0.15 | -0.02 | -0.10 | -0.02 | 317  | -0.02 | -0.22 | 0.19  | 0.02  | 0.08  | -0.02 |
|       | 313  | 0.01  | -0.09 | -0.28 | 0.05  | 0.25  | 0.01  | 314  | -0.02 | -0.22 | 0.06  | -0.02 | -0.09 | 0.01  |
| 241   | 317  | -0.02 | -0.05 | 0.37  | 0.02  | 0.08  | -0.01 | 318  | -0.05 | -0.17 | 0.72  | -0.04 | -0.21 | -0.01 |
|       | 314  | -0.02 | -0.05 | 0.29  | -0.02 | -0.09 | 0.00  | 315  | -0.05 | -0.17 | 0.63  | 0.03  | 0.14  | 0.00  |
| 242   | 318  | -0.04 | -0.31 | 0.97  | -0.04 | -0.21 | 0.04  | 167  | 0.07  | 0.25  | 1.31  | 0.17  | 0.83  | 0.04  |
|       | 315  | -0.04 | -0.31 | 0.78  | 0.03  | 0.14  | -0.04 | 12   | 0.07  | 0.25  | 1.12  | -0.09 | -0.46 | -0.04 |
| 243   | 319  | -0.03 | -0.14 | 2.05  | -0.06 | -0.28 | -0.16 | 320  | -0.03 | -0.12 | 1.77  | 0.02  | 0.09  | -0.16 |
|       | 82   | -0.03 | -0.14 | 2.02  | 0.36  | 1.78  | 0.16  | 83   | -0.03 | -0.12 | 1.74  | -0.01 | -0.03 | 0.16  |
| 244   | 320  | -0.03 | -0.10 | 1.69  | 0.02  | 0.09  | -0.07 | 321  | -0.04 | -0.15 | 1.30  | -0.01 | -0.04 | -0.07 |
|       | 83   | -0.03 | -0.10 | 1.60  | -0.01 | -0.03 | 0.07  | 84   | -0.04 | -0.15 | 1.22  | -0.10 | -0.51 | 0.07  |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 245   | 321  | -0.05             | -0.09             | 1.47              | -0.01             | -0.04             | 0.01              | 168  | -0.03             | -0.01             | 0.97              | 0.04              | 0.18              | 0.01              |
|       | 84   | -0.05             | -0.09             | 1.16              | -0.10             | -0.51             | -0.02             | 85   | -0.03             | -0.01             | 0.66              | -0.12             | -0.60             | -0.02             |
| 246   | 322  | 0.01              | -0.01             | 0.71              | -0.01             | -0.04             | 0.02              | 323  | 0.00              | -0.08             | 0.63              | 0.00              | 0.02              | 0.02              |
|       | 102  | 0.01              | -0.01             | 0.62              | -0.10             | -0.48             | -0.02             | 103  | 0.00              | -0.08             | 0.55              | -0.07             | -0.36             | -0.02             |
| 247   | 323  | -0.01             | -0.02             | 0.54              | 0.00              | 0.02              | 0.00              | 324  | -0.01             | -0.05             | 0.40              | -0.01             | -0.04             | 0.00              |
|       | 103  | -0.01             | -0.02             | 0.52              | -0.07             | -0.36             | -0.01             | 104  | -0.01             | -0.05             | 0.38              | -0.05             | -0.24             | -0.01             |
| 248   | 324  | -0.01             | -0.01             | 0.46              | -0.01             | -0.04             | 0.02              | 169  | -0.02             | -0.04             | 0.28              | 0.03              | 0.17              | 0.02              |
|       | 104  | -0.01             | -0.01             | 0.37              | -0.05             | -0.24             | -0.02             | 105  | -0.02             | -0.04             | 0.20              | -0.05             | -0.24             | -0.02             |
| 249   | 325  | 0.01              | 0.00              | 0.25              | -0.01             | -0.04             | 0.01              | 326  | 0.00              | -0.03             | 0.22              | 0.00              | 0.01              | 0.01              |
|       | 122  | 0.01              | 0.00              | 0.22              | -0.03             | -0.15             | -0.01             | 123  | 0.00              | -0.03             | 0.19              | -0.03             | -0.14             | -0.01             |
| 250   | 326  | 0.00              | -0.01             | 0.18              | 0.00              | 0.01              | 0.00              | 327  | 0.00              | -0.02             | 0.12              | -0.01             | -0.03             | 0.00              |
|       | 123  | 0.00              | -0.01             | 0.18              | -0.03             | -0.14             | 0.00              | 124  | 0.00              | -0.02             | 0.12              | -0.02             | -0.09             | 0.00              |
| 251   | 327  | -0.01             | 0.00              | 0.14              | -0.01             | -0.03             | 0.01              | 170  | -0.02             | -0.05             | 0.07              | 0.03              | 0.13              | 0.01              |
|       | 124  | -0.01             | 0.00              | 0.12              | -0.02             | -0.09             | -0.02             | 125  | -0.02             | -0.05             | 0.05              | -0.02             | -0.12             | -0.02             |
| 252   | 328  | 0.00              | 0.00              | 0.09              | -0.01             | -0.03             | 0.00              | 329  | 0.00              | -0.02             | 0.08              | 0.00              | 0.01              | 0.00              |
|       | 142  | 0.00              | 0.00              | 0.07              | -0.01             | -0.06             | -0.01             | 143  | 0.00              | -0.02             | 0.06              | -0.01             | -0.05             | -0.01             |
| 253   | 329  | 0.00              | -0.01             | 0.04              | 0.00              | 0.01              | 0.00              | 330  | 0.00              | -0.01             | 0.02              | 0.00              | 0.00              | 0.00              |
|       | 143  | 0.00              | -0.01             | 0.05              | -0.01             | -0.05             | 0.00              | 144  | 0.00              | -0.01             | 0.03              | -0.01             | -0.04             | 0.00              |
| 254   | 330  | 0.00              | 0.01              | 0.01              | 0.00              | 0.00              | 0.01              | 171  | -0.01             | -0.04             | -0.01             | 0.00              | 0.02              | 0.01              |
|       | 144  | 0.00              | 0.01              | 0.03              | -0.01             | -0.04             | -0.01             | 145  | -0.01             | -0.04             | 0.01              | 0.01              | 0.04              | -0.01             |
| 255   | 331  | -0.01             | -0.01             | -0.06             | 0.00              | -0.02             | 0.01              | 332  | 0.00              | 0.02              | -0.08             | 0.00              | 0.01              | 0.01              |
|       | 298  | -0.01             | -0.01             | -0.02             | 0.00              | -0.02             | -0.01             | 299  | 0.00              | 0.02              | -0.05             | 0.00              | 0.02              | -0.01             |
| 256   | 332  | 0.00              | 0.00              | -0.03             | 0.00              | 0.01              | 0.00              | 333  | 0.00              | 0.01              | -0.03             | -0.01             | -0.05             | 0.00              |
|       | 299  | 0.00              | 0.00              | -0.04             | 0.00              | 0.02              | 0.00              | 300  | 0.00              | 0.01              | -0.04             | 0.02              | 0.08              | 0.00              |
| 257   | 333  | 0.00              | -0.02             | -0.02             | -0.01             | -0.05             | 0.03              | 173  | 0.01              | 0.04              | -0.01             | 0.04              | 0.22              | 0.03              |
|       | 300  | 0.00              | -0.02             | -0.02             | 0.02              | 0.08              | -0.03             | 21   | 0.01              | 0.04              | -0.01             | 0.01              | 0.03              | -0.03             |
| 258   | 334  | -0.01             | -0.01             | -0.09             | -0.01             | -0.05             | 0.00              | 335  | 0.00              | 0.00              | -0.12             | 0.00              | 0.01              | 0.00              |
|       | 37   | -0.01             | -0.01             | -0.06             | 0.02              | 0.12              | 0.00              | 38   | 0.00              | 0.00              | -0.09             | 0.02              | 0.08              | 0.00              |
| 259   | 335  | 0.00              | -0.01             | -0.13             | 0.00              | 0.01              | -0.03             | 336  | 0.01              | 0.00              | -0.11             | -0.01             | -0.04             | -0.03             |
|       | 38   | 0.00              | -0.01             | -0.09             | 0.02              | 0.08              | 0.02              | 39   | 0.01              | 0.00              | -0.08             | -0.01             | -0.07             | 0.02              |
| 260   | 336  | 0.00              | 0.02              | -0.20             | -0.01             | -0.04             | -0.01             | 174  | -0.02             | -0.09             | -0.14             | 0.04              | 0.18              | -0.01             |
|       | 39   | 0.00              | 0.02              | -0.12             | -0.01             | -0.07             | 0.01              | 41   | -0.02             | -0.09             | -0.06             | -0.07             | -0.36             | 0.01              |
| 261   | 337  | 0.00              | -0.02             | -0.01             | -0.01             | -0.04             | 0.00              | 338  | 0.00              | -0.01             | -0.03             | 0.00              | 0.02              | 0.00              |
|       | 59   | 0.00              | -0.02             | -0.03             | -0.07             | -0.34             | 0.00              | 60   | 0.00              | -0.01             | -0.04             | -0.07             | -0.37             | 0.00              |



TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 262   | 338  | 0.00              | -0.02             | -0.11             | 0.00              | 0.02              | 0.00              | 339  | 0.00              | -0.01             | -0.12             | -0.01             | -0.03             | 0.00              |
|       | 60   | 0.00              | -0.02             | -0.06             | -0.07             | -0.37             | 0.00              | 61   | 0.00              | -0.01             | -0.07             | -0.07             | -0.34             | 0.00              |
| 263   | 339  | 0.00              | 0.04              | -0.21             | -0.01             | -0.03             | 0.01              | 175  | -0.03             | -0.14             | -0.19             | 0.03              | 0.13              | 0.01              |
|       | 61   | 0.00              | 0.04              | -0.12             | -0.07             | -0.34             | -0.01             | 62   | -0.03             | -0.14             | -0.10             | -0.08             | -0.38             | -0.01             |
| 264   | 340  | 0.00              | -0.02             | -0.03             | -0.01             | -0.03             | 0.00              | 341  | 0.00              | -0.02             | -0.05             | 0.00              | 0.02              | 0.00              |
|       | 78   | 0.00              | -0.02             | -0.06             | -0.07             | -0.34             | 0.00              | 79   | 0.00              | -0.02             | -0.08             | -0.07             | -0.37             | 0.00              |
| 265   | 341  | 0.00              | -0.02             | -0.13             | 0.00              | 0.02              | 0.00              | 342  | 0.00              | -0.02             | -0.14             | -0.01             | -0.04             | 0.00              |
|       | 79   | 0.00              | -0.02             | -0.10             | -0.07             | -0.37             | 0.00              | 80   | 0.00              | -0.02             | -0.11             | -0.06             | -0.32             | 0.00              |
| 266   | 342  | 0.00              | 0.04              | -0.21             | -0.01             | -0.04             | 0.00              | 176  | -0.03             | -0.11             | -0.19             | 0.03              | 0.16              | 0.00              |
|       | 80   | 0.00              | 0.04              | -0.15             | -0.06             | -0.32             | -0.01             | 81   | -0.03             | -0.11             | -0.13             | -0.09             | -0.47             | -0.01             |
| 267   | 343  | 0.01              | 0.03              | -0.03             | -0.01             | -0.04             | 0.01              | 344  | 0.00              | -0.04             | -0.04             | 0.00              | 0.02              | 0.01              |
|       | 98   | 0.01              | 0.03              | 0.00              | 0.01              | 0.05              | -0.01             | 99   | 0.00              | -0.04             | -0.01             | 0.02              | 0.09              | -0.01             |
| 268   | 344  | -0.01             | -0.01             | -0.10             | 0.00              | 0.02              | 0.00              | 345  | 0.00              | 0.01              | -0.03             | -0.01             | -0.03             | 0.00              |
|       | 99   | -0.01             | -0.01             | -0.08             | 0.02              | 0.09              | -0.01             | 100  | 0.00              | 0.01              | -0.01             | 0.03              | 0.17              | -0.01             |
| 269   | 345  | 0.00              | -0.01             | -0.11             | -0.01             | -0.03             | 0.00              | 177  | 0.00              | 0.01              | -0.03             | 0.02              | 0.11              | 0.00              |
|       | 100  | 0.00              | -0.01             | -0.10             | 0.03              | 0.17              | -0.01             | 101  | 0.00              | 0.01              | -0.03             | 0.01              | 0.07              | -0.01             |
| 270   | 346  | 0.00              | 0.00              | -0.06             | 0.00              | -0.02             | 0.00              | 347  | 0.00              | 0.00              | -0.05             | 0.00              | 0.01              | 0.00              |
|       | 118  | 0.00              | 0.00              | -0.06             | 0.01              | 0.05              | 0.00              | 119  | 0.00              | 0.00              | -0.04             | 0.00              | 0.01              | 0.00              |
| 271   | 347  | 0.00              | 0.01              | -0.03             | 0.00              | 0.01              | -0.01             | 348  | 0.00              | 0.01              | -0.02             | -0.01             | -0.03             | -0.01             |
|       | 119  | 0.00              | 0.01              | -0.04             | 0.00              | 0.01              | 0.00              | 120  | 0.00              | 0.01              | -0.03             | 0.00              | 0.01              | 0.00              |
| 272   | 348  | 0.00              | -0.02             | -0.01             | -0.01             | -0.03             | 0.01              | 178  | 0.01              | 0.04              | 0.00              | 0.03              | 0.13              | 0.01              |
|       | 120  | 0.00              | -0.02             | -0.02             | 0.00              | 0.01              | -0.01             | 121  | 0.01              | 0.04              | -0.01             | -0.01             | -0.03             | -0.01             |
| 273   | 349  | 0.00              | 0.00              | -0.06             | -0.01             | -0.03             | 0.00              | 350  | 0.00              | 0.01              | -0.06             | 0.00              | 0.01              | 0.00              |
|       | 138  | 0.00              | 0.00              | -0.04             | 0.00              | 0.00              | 0.00              | 139  | 0.00              | 0.01              | -0.04             | 0.00              | -0.01             | 0.00              |
| 274   | 350  | 0.00              | 0.01              | -0.03             | 0.00              | 0.01              | 0.00              | 351  | 0.00              | 0.01              | -0.03             | -0.01             | -0.03             | 0.00              |
|       | 139  | 0.00              | 0.01              | -0.04             | 0.00              | -0.01             | 0.00              | 140  | 0.00              | 0.01              | -0.03             | 0.00              | 0.00              | 0.00              |
| 275   | 351  | 0.00              | -0.01             | -0.01             | -0.01             | -0.03             | 0.01              | 179  | 0.01              | 0.05              | 0.00              | 0.02              | 0.12              | 0.01              |
|       | 140  | 0.00              | -0.01             | -0.03             | 0.00              | 0.00              | -0.01             | 141  | 0.01              | 0.05              | -0.02             | -0.01             | -0.04             | -0.01             |
| 276   | 352  | 0.00              | 0.00              | -0.06             | -0.01             | -0.03             | 0.00              | 353  | 0.00              | 0.01              | -0.05             | 0.00              | 0.01              | 0.00              |
|       | 158  | 0.00              | 0.00              | -0.04             | 0.00              | -0.01             | 0.00              | 159  | 0.00              | 0.01              | -0.03             | 0.00              | -0.02             | 0.00              |
| 277   | 353  | 0.00              | 0.01              | -0.02             | 0.00              | 0.01              | 0.00              | 354  | 0.00              | 0.00              | -0.01             | 0.00              | -0.01             | 0.00              |
|       | 159  | 0.00              | 0.01              | -0.03             | 0.00              | -0.02             | 0.00              | 160  | 0.00              | 0.00              | -0.02             | 0.00              | -0.02             | 0.00              |
| 278   | 354  | 0.00              | 0.00              | 0.02              | 0.00              | -0.01             | 0.01              | 180  | 0.01              | 0.04              | 0.02              | 0.01              | 0.03              | 0.01              |
|       | 160  | 0.00              | 0.00              | -0.02             | 0.00              | -0.02             | -0.01             | 161  | 0.01              | 0.04              | -0.01             | 0.01              | 0.03              | -0.01             |

TENS. Var.Bibl.Arch.: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22    | M12   | Nodo | S11   | S22   | S12   | M11    | M22    | M12   |
|-------|------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|--------|--------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq |
| 279   | 355  | -0.02 | -0.08 | 0.36  | -0.01 | -0.04  | 0.00  | 356  | 0.00  | 0.01  | 0.35  | 0.00   | -0.01  | 0.00  |
|       | 286  | -0.02 | -0.08 | 0.25  | 0.06  | 0.28   | 0.00  | 290  | 0.00  | 0.01  | 0.24  | 0.06   | 0.31   | 0.00  |
| 280   | 356  | -0.01 | -0.04 | 0.25  | 0.00  | -0.01  | -0.01 | 357  | 0.01  | 0.03  | 0.23  | 0.02   | 0.09   | -0.01 |
|       | 290  | -0.01 | -0.04 | 0.14  | 0.06  | 0.31   | 0.01  | 294  | 0.01  | 0.03  | 0.11  | 0.00   | 0.02   | 0.01  |
| 281   | 357  | -0.01 | -0.08 | 0.20  | 0.02  | 0.09   | -0.02 | 172  | 0.03  | 0.11  | 0.14  | -0.07  | -0.35  | -0.02 |
|       | 294  | -0.01 | -0.08 | 0.18  | 0.00  | 0.02   | 0.02  | 20   | 0.03  | 0.11  | 0.12  | 0.02   | 0.12   | 0.02  |
| 282   | 358  | 0.00  | -0.02 | 0.06  | 0.00  | 0.01   | 0.00  | 359  | 0.00  | 0.01  | 0.06  | 0.00   | 0.00   | 0.00  |
|       | 149  | 0.00  | -0.02 | 0.03  | -0.01 | -0.05  | 0.00  | 153  | 0.00  | 0.01  | 0.03  | 0.00   | -0.02  | 0.00  |
| 283   | 359  | 0.00  | -0.01 | 0.06  | 0.00  | 0.00   | 0.00  | 360  | 0.00  | 0.02  | 0.06  | 0.00   | -0.02  | 0.00  |
|       | 153  | 0.00  | -0.01 | 0.03  | 0.00  | -0.02  | 0.00  | 157  | 0.00  | 0.02  | 0.03  | 0.01   | 0.03   | 0.00  |
| 284   | 360  | 0.00  | -0.02 | 0.07  | 0.00  | -0.02  | 0.00  | 180  | 0.01  | 0.03  | 0.05  | 0.02   | 0.08   | 0.00  |
|       | 157  | 0.00  | -0.02 | 0.07  | 0.01  | 0.03   | 0.00  | 161  | 0.01  | 0.03  | 0.06  | -0.01  | -0.05  | 0.00  |
| 285   | 361  | 0.13  | 1.85  | -1.84 | -4.00 | -19.98 | 5.45  | 181  | -1.10 | -4.29 | -3.27 | 16.74  | 83.71  | 5.45  |
|       | 266  | 0.13  | 1.85  | -0.31 | 1.88  | 9.41   | -5.46 | 13   | -1.10 | -4.29 | -1.74 | -6.86  | -34.28 | -5.46 |
| 286   | 362  | 0.14  | 1.37  | -0.69 | -3.30 | -16.52 | 0.49  | 182  | -0.61 | -2.42 | 0.64  | 1.02   | 5.09   | 0.49  |
|       | 277  | 0.14  | 1.37  | -0.91 | 2.01  | 10.07  | -0.50 | 16   | -0.61 | -2.42 | 0.42  | -1.66  | -8.32  | -0.50 |
| 287   | 363  | 0.13  | 1.85  | -1.83 | 3.99  | 19.93  | -5.49 | 183  | -1.10 | -4.28 | -3.23 | -16.72 | -83.62 | -5.49 |
|       | 280  | 0.13  | 1.85  | -0.29 | -1.86 | -9.32  | 5.49  | 17   | -1.10 | -4.28 | -1.70 | 6.76   | 33.81  | 5.49  |
| 288   | 364  | 0.10  | 1.44  | -0.57 | 3.27  | 16.34  | -0.55 | 184  | -0.69 | -2.46 | 0.78  | -0.90  | -4.52  | -0.55 |
|       | 282  | 0.10  | 1.44  | -0.97 | -1.98 | -9.89  | 0.55  | 14   | -0.69 | -2.46 | 0.38  | 1.47   | 7.37   | 0.55  |
| 289   | 365  | -0.26 | -1.09 | -0.61 | -0.07 | -0.35  | -0.01 | 366  | -0.14 | -0.51 | -0.46 | 0.02   | 0.10   | -0.01 |
|       | 42   | -0.26 | -1.09 | -0.73 | -0.79 | -3.97  | 0.01  | 43   | -0.14 | -0.51 | -0.57 | -0.90  | -4.51  | 0.01  |
| 290   | 366  | -0.13 | -0.74 | -0.64 | 0.02  | 0.10   | 0.06  | 367  | -0.12 | -0.66 | -0.38 | 0.00   | -0.02  | 0.06  |
|       | 43   | -0.13 | -0.74 | -0.77 | -0.90 | -4.51  | -0.06 | 44   | -0.12 | -0.66 | -0.51 | -0.74  | -3.72  | -0.06 |
| 291   | 367  | -0.12 | -0.62 | -0.52 | 0.00  | -0.02  | 0.05  | 185  | -0.11 | -0.58 | 0.00  | 0.00   | -0.01  | 0.05  |
|       | 44   | -0.12 | -0.62 | -0.55 | -0.74 | -3.72  | -0.06 | 15   | -0.11 | -0.58 | -0.03 | -0.63  | -3.15  | -0.06 |
| 292   | 368  | -0.12 | -0.66 | 0.37  | -0.01 | -0.03  | -0.06 | 369  | -0.13 | -0.73 | 0.60  | 0.02   | 0.12   | -0.06 |
|       | 63   | -0.12 | -0.66 | 0.48  | -0.74 | -3.70  | 0.06  | 64   | -0.13 | -0.73 | 0.71  | -0.90  | -4.49  | 0.06  |
| 293   | 369  | -0.14 | -0.54 | 0.46  | 0.02  | 0.12   | 0.02  | 370  | -0.24 | -1.04 | 0.57  | -0.08  | -0.42  | 0.02  |
|       | 64   | -0.14 | -0.54 | 0.55  | -0.90 | -4.49  | -0.02 | 65   | -0.24 | -1.04 | 0.66  | -0.74  | -3.72  | -0.02 |
| 294   | 370  | -0.26 | -0.30 | 0.95  | -0.08 | -0.42  | 0.13  | 184  | -0.30 | -0.49 | 1.71  | 0.34   | 1.72   | 0.13  |
|       | 65   | -0.26 | -0.30 | -0.24 | -0.74 | -3.72  | -0.13 | 14   | -0.30 | -0.49 | 0.52  | -0.90  | -4.50  | -0.13 |

CARATT. Var.Neve h<=1000: ASTE

| Tra | Filo | Alt.  | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|-------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)   | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 24  | 2.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 19  | 2.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 24  | 2.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 21   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 1   | 5.00 | 0.00  | -0.04   | 0.36    | 0.08    | 0.00    | 0.00    | 0.00    | 1    | 2.00 | 0.00    | 0.04    | -0.36   | 0.04    | 0.01    | 0.00    |
| 2   | 5.00 | 0.00  | -0.10   | 0.65    | 0.18    | 0.00    | 0.00    | 0.00    | 2    | 2.00 | 0.00    | 0.10    | -0.65   | 0.09    | 0.00    | 0.00    |
| 3   | 5.00 | 0.00  | -0.13   | 0.80    | 0.22    | 0.00    | 0.00    | 0.00    | 3    | 2.00 | 0.00    | 0.13    | -0.80   | 0.11    | 0.00    | 0.00    |
| 4   | 5.00 | 0.00  | -0.14   | 0.87    | 0.24    | 0.00    | 0.00    | 0.00    | 4    | 2.00 | 0.00    | 0.14    | -0.87   | 0.11    | 0.00    | 0.00    |
| 5   | 5.00 | 0.00  | -0.14   | 0.86    | 0.23    | 0.00    | 0.00    | 0.00    | 5    | 2.00 | 0.00    | 0.14    | -0.86   | 0.12    | 0.00    | 0.00    |
| 6   | 5.00 | 0.00  | -0.12   | 0.79    | 0.22    | 0.00    | 0.00    | 0.00    | 6    | 2.00 | 0.00    | 0.12    | -0.79   | 0.11    | 0.00    | 0.00    |
| 7   | 5.00 | 0.00  | -0.12   | 0.77    | 0.21    | 0.00    | 0.00    | 0.00    | 7    | 2.00 | 0.00    | 0.12    | -0.77   | 0.10    | 0.00    | 0.00    |
| 8   | 5.00 | 0.00  | -0.12   | 0.73    | 0.20    | -0.01   | 0.00    | 0.00    | 8    | 2.00 | 0.00    | 0.12    | -0.73   | 0.10    | -0.01   | 0.00    |
| 9   | 5.00 | -0.01 | -0.05   | 0.40    | 0.09    | 0.00    | 0.00    | 0.00    | 9    | 2.00 | 0.01    | 0.05    | -0.40   | 0.04    | -0.01   | 0.00    |
| 10  | 5.00 | 0.01  | 0.05    | 0.42    | -0.08   | 0.01    | 0.00    | 0.00    | 10   | 2.00 | -0.01   | -0.05   | -0.42   | -0.05   | 0.01    | 0.00    |
| 11  | 5.00 | 0.01  | 0.10    | 0.65    | -0.18   | 0.01    | 0.00    | 0.00    | 11   | 2.00 | -0.01   | -0.10   | -0.65   | -0.09   | 0.01    | 0.00    |
| 12  | 5.00 | 0.00  | 0.12    | 0.76    | -0.21   | 0.00    | 0.00    | 0.00    | 12   | 2.00 | 0.00    | -0.12   | -0.76   | -0.11   | 0.00    | 0.00    |
| 13  | 5.00 | 0.00  | 0.14    | 0.88    | -0.24   | 0.00    | 0.00    | 0.00    | 13   | 2.00 | 0.00    | -0.14   | -0.88   | -0.13   | 0.00    | 0.00    |
| 14  | 5.00 | 0.00  | 0.13    | 0.80    | -0.22   | 0.00    | 0.00    | 0.00    | 14   | 2.00 | 0.00    | -0.13   | -0.80   | -0.11   | 0.00    | 0.00    |
| 15  | 5.00 | 0.00  | 0.12    | 0.77    | -0.21   | 0.00    | 0.00    | 0.00    | 15   | 2.00 | 0.00    | -0.12   | -0.77   | -0.11   | 0.00    | 0.00    |
| 16  | 5.00 | 0.00  | 0.12    | 0.77    | -0.21   | 0.00    | 0.00    | 0.00    | 16   | 2.00 | 0.00    | -0.12   | -0.77   | -0.11   | 0.00    | 0.00    |
| 17  | 5.00 | -0.01 | 0.12    | 0.73    | -0.20   | -0.01   | 0.00    | 0.00    | 17   | 2.00 | 0.01    | -0.12   | -0.73   | -0.10   | -0.01   | 0.00    |
| 18  | 5.00 | -0.01 | 0.05    | 0.45    | -0.09   | -0.01   | 0.00    | 0.00    | 18   | 2.00 | 0.01    | -0.05   | -0.45   | -0.05   | -0.01   | 0.00    |
| 1   | 5.00 | 0.00  | 0.15    | 0.52    | -0.04   | 0.00    | 0.00    | 0.00    | 25   | 6.00 | 0.00    | 0.17    | -0.41   | 0.07    | -0.01   | 0.00    |
| 9   | 5.00 | 0.01  | 0.16    | 0.60    | -0.04   | 0.00    | 0.00    | 0.00    | 33   | 6.00 | -0.01   | 0.18    | -0.48   | 0.08    | 0.01    | 0.00    |
| 10  | 5.00 | 0.01  | 0.15    | 0.70    | -0.03   | 0.01    | 0.00    | 0.00    | 25   | 6.00 | -0.01   | 0.17    | -0.60   | 0.07    | 0.01    | 0.00    |
| 18  | 5.00 | -0.01 | 0.16    | 0.74    | -0.04   | -0.01   | 0.00    | 0.00    | 33   | 6.00 | 0.01    | 0.19    | -0.62   | 0.08    | -0.01   | 0.00    |
| 2   | 5.00 | -0.01 | 0.27    | 1.02    | -0.12   | -0.01   | 0.00    | 0.00    | 26   | 6.00 | 0.01    | 0.28    | -0.83   | 0.14    | -0.01   | 0.00    |
| 6   | 5.00 | 0.00  | 0.32    | 1.24    | -0.15   | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.33    | -1.02   | 0.17    | 0.00    | 0.00    |
| 7   | 5.00 | 0.00  | 0.32    | 1.20    | -0.14   | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.33    | -0.99   | 0.16    | 0.00    | 0.00    |
| 8   | 5.00 | 0.01  | 0.30    | 1.13    | -0.14   | 0.01    | 0.00    | 0.00    | 32   | 6.00 | -0.01   | 0.32    | -0.91   | 0.16    | 0.01    | 0.00    |
| 3   | 5.00 | 0.00  | 0.32    | 1.26    | -0.15   | 0.00    | 0.00    | 0.00    | 27   | 6.00 | 0.00    | 0.33    | -1.04   | 0.17    | -0.01   | 0.00    |
| 4   | 5.00 | 0.00  | 0.36    | 1.37    | -0.16   | 0.00    | 0.00    | 0.00    | 28   | 6.00 | 0.00    | 0.38    | -1.11   | 0.19    | 0.00    | 0.00    |
| 5   | 5.00 | 0.00  | 0.34    | 1.36    | -0.15   | 0.00    | 0.00    | 0.00    | 29   | 6.00 | 0.00    | 0.35    | -1.12   | 0.18    | 0.00    | 0.00    |
| 11  | 5.00 | 0.01  | 0.27    | 1.02    | -0.12   | 0.01    | 0.00    | 0.00    | 26   | 6.00 | -0.01   | 0.29    | -0.83   | 0.14    | 0.02    | 0.00    |
| 15  | 5.00 | 0.00  | 0.32    | 1.18    | -0.14   | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.34    | -0.95   | 0.17    | 0.00    | 0.00    |
| 16  | 5.00 | 0.00  | 0.32    | 1.19    | -0.14   | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.33    | -0.97   | 0.16    | 0.00    | 0.00    |

**CARATT. Var.Neve h<=1000: ASTE**

| Tra | Filo | Alt.  | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|-------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)   | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 17  | 5.00 | -0.01 | 0.30    | 1.14    | -0.13   | -0.01   | 0.00    | 32      | 6.00 | 0.01 | 0.32    | -0.93   | 0.16    | -0.01   | 0.00    |         |
| 12  | 5.00 | 0.00  | 0.32    | 1.15    | -0.14   | 0.00    | 0.00    | 27      | 6.00 | 0.00 | 0.33    | -0.93   | 0.17    | 0.01    | 0.00    |         |
| 13  | 5.00 | 0.00  | 0.36    | 1.37    | -0.16   | 0.00    | 0.00    | 28      | 6.00 | 0.00 | 0.38    | -1.12   | 0.19    | 0.00    | 0.00    |         |
| 14  | 5.00 | 0.00  | 0.34    | 1.20    | -0.15   | 0.00    | 0.00    | 29      | 6.00 | 0.00 | 0.35    | -0.96   | 0.18    | 0.00    | 0.00    |         |
| 1   | 5.00 | 0.00  | 0.01    | 0.00    | -0.01   | 0.00    | 0.00    | 2       | 5.00 | 0.00 | -0.01   | 0.00    | -0.01   | 0.00    | 0.00    |         |
| 2   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 3       | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 3   | 5.00 | 0.00  | 0.00    | 0.00    | -0.01   | 0.00    | 0.00    | 4       | 5.00 | 0.00 | 0.00    | 0.00    | -0.01   | 0.00    | 0.00    |         |
| 4   | 5.00 | 0.00  | -0.01   | 0.00    | 0.01    | 0.00    | 0.00    | 5       | 5.00 | 0.00 | 0.01    | 0.00    | 0.01    | 0.00    | 0.00    |         |
| 5   | 5.00 | 0.00  | 0.00    | 0.00    | -0.01   | 0.00    | 0.00    | 6       | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 6   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 7       | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 7   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 8       | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 8   | 5.00 | 0.00  | -0.01   | 0.00    | 0.01    | 0.00    | 0.00    | 9       | 5.00 | 0.00 | 0.01    | 0.00    | 0.01    | 0.00    | 0.00    |         |
| 10  | 5.00 | 0.00  | 0.01    | 0.00    | -0.02   | 0.00    | 0.00    | 11      | 5.00 | 0.00 | -0.01   | 0.00    | -0.01   | 0.00    | 0.00    |         |
| 11  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 12      | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 12  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 13      | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 13  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 14      | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 14  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 15      | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 15  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 16      | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 16  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 17      | 5.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 17  | 5.00 | 0.00  | -0.01   | 0.00    | 0.01    | 0.00    | 0.00    | 18      | 5.00 | 0.00 | 0.01    | 0.00    | 0.02    | 0.00    | 0.00    |         |
| 25  | 6.00 | 0.00  | 0.01    | 0.00    | -0.01   | 0.00    | 0.00    | 26      | 6.00 | 0.00 | -0.01   | 0.00    | -0.01   | 0.00    | 0.00    |         |
| 26  | 6.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 27      | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 27  | 6.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 28      | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 28  | 6.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 29      | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 29  | 6.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 30      | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 30  | 6.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 31      | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 31  | 6.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32      | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |         |
| 32  | 6.00 | 0.00  | -0.01   | 0.00    | 0.01    | 0.00    | 0.00    | 33      | 6.00 | 0.00 | 0.01    | 0.00    | 0.01    | 0.00    | 0.00    |         |

**TENS. Var.Neve h<=1000: SHELL**

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 1     | 216  | -0.07             | -0.06             | -0.21             | 2.71              | -0.91             | 0.20              | 217  | -0.07             | -0.09             | -0.32             | -1.39             | -0.42             | -1.24             |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 1    | 0.42  | 0.04  | -0.03 | 9.37  | 3.67  | 0.48  | 213  | 0.42  | 0.01  | -0.14 | -3.60 | -0.86 | -0.96 |
| 2     | 220  | 0.26  | -0.14 | 0.05  | 1.79  | -5.37 | -1.66 | 227  | 0.28  | -0.05 | 0.03  | -0.43 | -0.58 | -3.35 |
|       | 2    | 0.95  | -0.01 | -0.03 | 12.90 | 10.96 | 0.17  | 224  | 0.97  | 0.09  | -0.04 | -4.27 | -1.90 | -1.53 |
| 3     | 234  | -0.64 | -0.10 | 0.04  | -0.02 | -0.13 | 0.08  | 235  | -0.64 | -0.11 | 0.02  | -0.09 | -0.02 | -0.21 |
|       | 4    | -0.27 | -0.03 | 0.06  | -0.05 | -1.76 | -0.12 | 231  | -0.27 | -0.03 | 0.04  | -0.17 | -1.13 | -0.41 |
| 4     | 242  | -0.20 | -0.20 | -0.24 | 0.64  | -0.54 | -0.59 | 243  | -0.17 | -0.05 | -0.25 | -0.43 | 0.15  | -0.96 |
|       | 3    | -0.12 | -0.19 | -0.36 | 1.92  | 0.88  | -0.56 | 221  | -0.09 | -0.03 | -0.37 | -1.06 | -0.73 | -0.93 |
| 5     | 253  | 0.14  | -0.78 | 0.22  | -0.27 | -1.61 | -0.18 | 254  | 0.30  | 0.04  | 0.07  | 0.12  | 0.49  | -0.19 |
|       | 1    | -0.28 | -0.86 | -0.68 | 0.35  | 1.82  | -0.11 | 249  | -0.11 | -0.05 | -0.83 | -0.02 | -0.60 | -0.12 |
| 6     | 253  | 0.00  | -0.20 | 0.36  | -0.95 | -1.59 | 0.15  | 264  | -0.03 | -0.35 | 0.76  | 0.57  | 0.94  | 0.04  |
|       | 1    | -0.17 | -0.24 | 0.30  | 0.92  | 2.69  | -0.85 | 216  | -0.20 | -0.39 | 0.71  | 0.32  | 3.87  | -0.96 |
| 7     | 267  | 0.03  | 0.13  | 0.27  | 0.14  | 0.58  | -0.10 | 268  | -0.02 | -0.13 | 0.24  | 0.10  | -0.12 | 0.01  |
|       | 8    | -0.20 | 0.08  | 0.08  | -0.25 | -0.60 | 0.22  | 241  | -0.26 | -0.18 | 0.05  | -0.10 | -0.96 | 0.34  |
| 8     | 271  | -0.45 | -0.06 | -0.06 | 0.03  | -0.15 | -0.01 | 272  | -0.45 | -0.09 | -0.01 | -0.01 | -0.17 | -0.07 |
|       | 7    | -0.96 | -0.17 | -0.02 | -0.15 | -1.27 | 0.02  | 248  | -0.97 | -0.19 | 0.03  | -0.20 | -1.38 | -0.04 |
| 9     | 265  | -0.11 | -0.15 | 0.46  | 0.58  | 0.89  | -0.19 | 276  | -0.11 | -0.15 | 0.39  | -0.05 | 0.34  | -0.10 |
|       | 3    | -0.17 | -0.16 | -0.03 | 0.35  | 1.60  | 0.35  | 242  | -0.17 | -0.16 | -0.10 | 0.20  | 0.88  | 0.44  |
| 10    | 259  | 0.00  | -0.23 | 0.38  | 0.97  | 1.67  | -0.16 | 278  | -0.02 | -0.36 | 0.79  | -0.58 | -0.95 | -0.05 |
|       | 5    | -0.17 | -0.26 | 0.31  | -0.89 | -2.76 | 0.87  | 230  | -0.19 | -0.39 | 0.72  | -0.39 | -3.96 | 0.98  |
| 11    | 279  | -0.09 | -0.16 | 0.48  | -0.59 | -0.90 | 0.20  | 281  | -0.09 | -0.14 | 0.43  | 0.05  | -0.34 | 0.11  |
|       | 6    | -0.18 | -0.18 | -0.04 | -0.31 | -1.64 | -0.36 | 238  | -0.17 | -0.16 | -0.09 | -0.24 | -0.90 | -0.45 |
| 12    | 286  | 0.00  | 0.00  | 0.00  | 4.21  | -0.52 | 0.48  | 287  | 0.00  | 0.00  | 0.00  | -1.21 | -1.50 | 1.12  |
|       | 18   | 0.00  | 0.00  | 0.00  | 1.50  | 2.04  | 0.20  | 283  | 0.00  | 0.00  | 0.00  | -0.36 | 1.91  | 0.83  |
| 13    | 25   | 0.00  | 0.00  | 0.00  | 0.44  | -0.13 | -0.17 | 26   | 0.00  | 0.00  | 0.00  | -0.22 | -0.38 | -0.35 |
|       | 19   | 0.00  | 0.00  | 0.00  | 0.81  | 2.31  | -0.17 | 22   | 0.00  | 0.00  | 0.00  | 0.14  | 2.06  | -0.35 |
| 14    | 26   | 0.00  | 0.00  | 0.00  | -0.16 | -0.24 | -0.32 | 27   | 0.00  | 0.00  | 0.00  | -0.54 | -0.41 | -0.42 |
|       | 22   | 0.00  | 0.00  | 0.00  | -0.11 | 1.67  | -0.31 | 23   | 0.00  | 0.00  | 0.00  | -0.49 | 1.50  | -0.41 |
| 15    | 27   | 0.00  | 0.00  | 0.00  | -0.29 | -0.25 | -0.39 | 28   | 0.00  | 0.00  | 0.00  | -0.43 | -0.35 | -0.48 |
|       | 23   | 0.00  | 0.00  | 0.00  | -0.29 | 1.27  | -0.38 | 24   | 0.00  | 0.00  | 0.00  | -0.42 | 1.17  | -0.46 |
| 16    | 28   | 0.00  | 0.00  | 0.00  | 0.77  | -0.01 | -0.47 | 13   | 0.00  | 0.00  | 0.00  | 0.99  | -0.07 | -0.41 |
|       | 24   | 0.00  | 0.00  | 0.00  | 0.17  | 0.99  | -0.36 | 11   | 0.00  | 0.00  | 0.00  | 0.39  | 0.93  | -0.30 |
| 17    | 29   | 0.00  | 0.00  | 0.00  | -0.73 | -1.35 | 0.04  | 30   | 0.00  | 0.00  | 0.00  | -0.62 | -1.28 | 0.04  |
|       | 25   | 0.00  | 0.00  | 0.00  | -0.69 | -1.80 | 0.02  | 26   | 0.00  | 0.00  | 0.00  | -0.59 | -1.74 | 0.02  |
| 18    | 30   | 0.00  | 0.00  | 0.00  | -0.87 | -1.26 | 0.08  | 31   | 0.00  | 0.00  | 0.00  | -0.68 | -1.11 | 0.13  |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 26   | 0.00  | 0.00  | 0.00  | -0.98 | -1.72 | -0.02 | 27   | 0.00  | 0.00  | 0.00  | -0.79 | -1.57 | 0.02  |
| 19    | 31   | 0.00  | 0.00  | 0.00  | -0.90 | -1.06 | 0.22  | 32   | 0.00  | 0.00  | 0.00  | -0.38 | -0.77 | 0.29  |
|       | 27   | 0.00  | 0.00  | 0.00  | -1.08 | -1.39 | 0.03  | 28   | 0.00  | 0.00  | 0.00  | -0.56 | -1.10 | 0.10  |
| 20    | 32   | 0.00  | 0.00  | 0.00  | 0.11  | -0.74 | 0.44  | 16   | 0.00  | 0.00  | 0.00  | 1.56  | -0.23 | 0.49  |
|       | 28   | 0.00  | 0.00  | 0.00  | 0.01  | -0.45 | 0.19  | 13   | 0.00  | 0.00  | 0.00  | 1.46  | 0.06  | 0.23  |
| 21    | 33   | 0.00  | 0.00  | 0.00  | -0.42 | -2.02 | 0.00  | 34   | 0.00  | 0.00  | 0.00  | -0.48 | -2.06 | 0.04  |
|       | 29   | 0.00  | 0.00  | 0.00  | -0.61 | -1.50 | 0.02  | 30   | 0.00  | 0.00  | 0.00  | -0.68 | -1.54 | 0.06  |
| 22    | 34   | 0.00  | 0.00  | 0.00  | -0.50 | -2.09 | 0.15  | 35   | 0.00  | 0.00  | 0.00  | -0.63 | -2.14 | 0.18  |
|       | 30   | 0.00  | 0.00  | 0.00  | -0.66 | -1.54 | 0.16  | 31   | 0.00  | 0.00  | 0.00  | -0.79 | -1.59 | 0.19  |
| 23    | 35   | 0.00  | 0.00  | 0.00  | -0.42 | -2.19 | 0.27  | 36   | 0.00  | 0.00  | 0.00  | -0.54 | -2.28 | 0.30  |
|       | 31   | 0.00  | 0.00  | 0.00  | -0.57 | -1.54 | 0.34  | 32   | 0.00  | 0.00  | 0.00  | -0.70 | -1.63 | 0.37  |
| 24    | 36   | 0.00  | 0.00  | 0.00  | -0.09 | -2.39 | 0.37  | 40   | 0.00  | 0.00  | 0.00  | 0.09  | -2.41 | 0.22  |
|       | 32   | 0.00  | 0.00  | 0.00  | 0.38  | -1.36 | 0.43  | 16   | 0.00  | 0.00  | 0.00  | 0.56  | -1.39 | 0.28  |
| 25    | 21   | 0.00  | 0.00  | 0.00  | 2.70  | 7.13  | -0.24 | 37   | 0.00  | 0.00  | 0.00  | 0.57  | 5.64  | -0.09 |
|       | 33   | 0.00  | 0.00  | 0.00  | -0.76 | -3.07 | 0.18  | 34   | 0.00  | 0.00  | 0.00  | -0.38 | -2.39 | 0.33  |
| 26    | 37   | 0.00  | 0.00  | 0.00  | 1.06  | 5.73  | 0.01  | 38   | 0.00  | 0.00  | 0.00  | 0.53  | 5.66  | -0.07 |
|       | 34   | 0.00  | 0.00  | 0.00  | -0.72 | -2.46 | 0.14  | 35   | 0.00  | 0.00  | 0.00  | -0.57 | -2.61 | 0.06  |
| 27    | 38   | 0.00  | 0.00  | 0.00  | 0.44  | 5.65  | -0.12 | 39   | 0.00  | 0.00  | 0.00  | 1.21  | 6.22  | -0.25 |
|       | 35   | 0.00  | 0.00  | 0.00  | -0.89 | -2.68 | 0.06  | 36   | 0.00  | 0.00  | 0.00  | -0.36 | -3.20 | -0.07 |
| 28    | 39   | 0.00  | 0.00  | 0.00  | 0.55  | 6.09  | -0.21 | 41   | 0.00  | 0.00  | 0.00  | 2.93  | 7.95  | -0.15 |
|       | 36   | 0.00  | 0.00  | 0.00  | -0.44 | -3.21 | -0.24 | 40   | 0.00  | 0.00  | 0.00  | -0.78 | -4.63 | -0.18 |
| 29    | 45   | 0.00  | 0.00  | 0.00  | -0.33 | -2.44 | -0.03 | 46   | 0.00  | 0.00  | 0.00  | -0.29 | -2.04 | -0.14 |
|       | 16   | 0.00  | 0.00  | 0.00  | 1.90  | 0.11  | -0.03 | 42   | 0.00  | 0.00  | 0.00  | -1.59 | -0.99 | -0.14 |
| 30    | 46   | 0.00  | 0.00  | 0.00  | -0.64 | -2.11 | 0.03  | 47   | 0.00  | 0.00  | 0.00  | -0.44 | -2.06 | -0.11 |
|       | 42   | 0.00  | 0.00  | 0.00  | 0.48  | -0.57 | 0.03  | 43   | 0.00  | 0.00  | 0.00  | -0.75 | -0.81 | -0.11 |
| 31    | 47   | 0.00  | 0.00  | 0.00  | -0.60 | -2.09 | -0.09 | 48   | 0.00  | 0.00  | 0.00  | -0.46 | -2.13 | -0.15 |
|       | 43   | 0.00  | 0.00  | 0.00  | 0.10  | -0.64 | -0.01 | 44   | 0.00  | 0.00  | 0.00  | -0.52 | -0.93 | -0.07 |
| 32    | 48   | 0.00  | 0.00  | 0.00  | -0.46 | -2.13 | -0.09 | 49   | 0.00  | 0.00  | 0.00  | -0.45 | -2.22 | -0.05 |
|       | 44   | 0.00  | 0.00  | 0.00  | -0.15 | -0.86 | -0.04 | 15   | 0.00  | 0.00  | 0.00  | -0.33 | -0.95 | 0.00  |
| 33    | 40   | 0.00  | 0.00  | 0.00  | -0.16 | -2.65 | 0.05  | 50   | 0.00  | 0.00  | 0.00  | -0.28 | -2.44 | 0.11  |
|       | 45   | 0.00  | 0.00  | 0.00  | -0.20 | -2.51 | -0.04 | 46   | 0.00  | 0.00  | 0.00  | -0.32 | -2.30 | 0.03  |
| 34    | 50   | 0.00  | 0.00  | 0.00  | -0.61 | -2.40 | -0.02 | 51   | 0.00  | 0.00  | 0.00  | -0.60 | -2.39 | -0.04 |
|       | 46   | 0.00  | 0.00  | 0.00  | -0.55 | -2.23 | -0.02 | 47   | 0.00  | 0.00  | 0.00  | -0.54 | -2.23 | -0.04 |
| 35    | 51   | 0.00  | 0.00  | 0.00  | -0.59 | -2.43 | -0.13 | 52   | 0.00  | 0.00  | 0.00  | -0.57 | -2.46 | -0.14 |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 47   | 0.00  | 0.00  | 0.00  | -0.55 | -2.24 | -0.11 | 48   | 0.00  | 0.00  | 0.00  | -0.52 | -2.27 | -0.12 |
| 36    | 52   | 0.00  | 0.00  | 0.00  | -0.37 | -2.45 | -0.15 | 53   | 0.00  | 0.00  | 0.00  | -0.31 | -2.51 | -0.08 |
|       | 48   | 0.00  | 0.00  | 0.00  | -0.44 | -2.35 | -0.12 | 49   | 0.00  | 0.00  | 0.00  | -0.38 | -2.41 | -0.05 |
| 37    | 54   | 0.00  | 0.00  | 0.00  | -0.28 | -1.11 | 0.26  | 55   | 0.00  | 0.00  | 0.00  | -0.43 | -1.21 | 0.06  |
|       | 40   | 0.00  | 0.00  | 0.00  | -0.08 | -1.62 | 0.29  | 50   | 0.00  | 0.00  | 0.00  | -0.24 | -1.72 | 0.09  |
| 38    | 55   | 0.00  | 0.00  | 0.00  | -0.55 | -1.21 | 0.01  | 56   | 0.00  | 0.00  | 0.00  | -0.55 | -1.20 | -0.07 |
|       | 50   | 0.00  | 0.00  | 0.00  | -0.57 | -1.89 | 0.01  | 51   | 0.00  | 0.00  | 0.00  | -0.57 | -1.89 | -0.07 |
| 39    | 56   | 0.00  | 0.00  | 0.00  | -0.50 | -1.19 | -0.15 | 57   | 0.00  | 0.00  | 0.00  | -0.45 | -1.19 | -0.22 |
|       | 51   | 0.00  | 0.00  | 0.00  | -0.54 | -1.88 | -0.14 | 52   | 0.00  | 0.00  | 0.00  | -0.49 | -1.88 | -0.21 |
| 40    | 57   | 0.00  | 0.00  | 0.00  | -0.05 | -1.16 | -0.28 | 58   | 0.00  | 0.00  | 0.00  | 0.09  | -1.31 | -0.26 |
|       | 52   | 0.00  | 0.00  | 0.00  | -0.24 | -1.95 | -0.21 | 53   | 0.00  | 0.00  | 0.00  | -0.10 | -2.10 | -0.19 |
| 41    | 41   | 0.00  | 0.00  | 0.00  | 4.60  | 10.44 | -0.78 | 59   | 0.00  | 0.00  | 0.00  | -0.17 | 7.40  | 0.02  |
|       | 54   | 0.00  | 0.00  | 0.00  | -0.92 | -0.77 | -0.18 | 55   | 0.00  | 0.00  | 0.00  | 0.11  | -0.35 | 0.61  |
| 42    | 59   | 0.00  | 0.00  | 0.00  | 1.63  | 7.76  | -0.01 | 60   | 0.00  | 0.00  | 0.00  | 0.99  | 8.17  | 0.10  |
|       | 55   | 0.00  | 0.00  | 0.00  | -0.55 | -0.48 | -0.13 | 56   | 0.00  | 0.00  | 0.00  | -0.44 | -0.62 | -0.02 |
| 43    | 60   | 0.00  | 0.00  | 0.00  | 0.89  | 8.15  | -0.07 | 61   | 0.00  | 0.00  | 0.00  | 1.70  | 8.11  | -0.11 |
|       | 56   | 0.00  | 0.00  | 0.00  | -0.49 | -0.63 | -0.14 | 57   | 0.00  | 0.00  | 0.00  | -0.27 | -0.19 | -0.17 |
| 44    | 61   | 0.00  | 0.00  | 0.00  | 0.07  | 7.78  | 0.02  | 62   | 0.00  | 0.00  | 0.00  | 4.68  | 11.96 | 0.14  |
|       | 57   | 0.00  | 0.00  | 0.00  | -0.25 | -0.18 | -0.68 | 58   | 0.00  | 0.00  | 0.00  | 0.57  | -1.08 | -0.55 |
| 45    | 49   | 0.00  | 0.00  | 0.00  | -0.38 | -2.21 | 0.04  | 66   | 0.00  | 0.00  | 0.00  | -0.54 | -2.20 | 0.08  |
|       | 15   | 0.00  | 0.00  | 0.00  | -0.33 | -0.95 | 0.00  | 63   | 0.00  | 0.00  | 0.00  | -0.15 | -0.83 | 0.04  |
| 46    | 66   | 0.00  | 0.00  | 0.00  | -0.46 | -2.18 | 0.13  | 67   | 0.00  | 0.00  | 0.00  | -0.62 | -2.20 | 0.08  |
|       | 63   | 0.00  | 0.00  | 0.00  | -0.51 | -0.90 | 0.07  | 64   | 0.00  | 0.00  | 0.00  | 0.10  | -0.59 | 0.02  |
| 47    | 67   | 0.00  | 0.00  | 0.00  | -0.45 | -2.17 | 0.13  | 68   | 0.00  | 0.00  | 0.00  | -0.65 | -2.19 | 0.01  |
|       | 64   | 0.00  | 0.00  | 0.00  | -0.75 | -0.76 | 0.10  | 65   | 0.00  | 0.00  | 0.00  | 0.51  | -0.43 | -0.02 |
| 48    | 68   | 0.00  | 0.00  | 0.00  | -0.40 | -2.14 | 0.09  | 69   | 0.00  | 0.00  | 0.00  | 0.29  | -2.54 | 0.28  |
|       | 65   | 0.00  | 0.00  | 0.00  | -1.51 | -0.84 | 0.08  | 14   | 0.00  | 0.00  | 0.00  | 1.91  | 0.42  | 0.27  |
| 49    | 53   | 0.00  | 0.00  | 0.00  | -0.61 | -3.10 | 0.08  | 70   | 0.00  | 0.00  | 0.00  | -0.49 | -2.76 | 0.14  |
|       | 49   | 0.00  | 0.00  | 0.00  | -0.36 | -2.10 | 0.01  | 66   | 0.00  | 0.00  | 0.00  | -0.55 | -2.23 | 0.07  |
| 50    | 70   | 0.00  | 0.00  | 0.00  | -0.57 | -2.78 | 0.15  | 71   | 0.00  | 0.00  | 0.00  | -0.78 | -2.74 | 0.12  |
|       | 66   | 0.00  | 0.00  | 0.00  | -0.46 | -2.22 | 0.11  | 67   | 0.00  | 0.00  | 0.00  | -0.62 | -2.19 | 0.08  |
| 51    | 71   | 0.00  | 0.00  | 0.00  | -0.82 | -2.75 | 0.03  | 72   | 0.00  | 0.00  | 0.00  | -0.58 | -2.84 | -0.01 |
|       | 67   | 0.00  | 0.00  | 0.00  | -0.44 | -2.16 | 0.09  | 68   | 0.00  | 0.00  | 0.00  | -0.66 | -2.25 | 0.05  |
| 52    | 72   | 0.00  | 0.00  | 0.00  | -0.65 | -2.86 | -0.11 | 73   | 0.00  | 0.00  | 0.00  | -0.37 | -3.65 | -0.41 |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 68   | 0.00  | 0.00  | 0.00  | -0.41 | -2.20 | 0.30  | 69   | 0.00  | 0.00  | 0.00  | 0.31  | -2.48 | 0.00  |
| 53    | 58   | 0.00  | 0.00  | 0.00  | 0.99  | -0.63 | 0.09  | 74   | 0.00  | 0.00  | 0.00  | -0.30 | -0.36 | 0.53  |
|       | 53   | 0.00  | 0.00  | 0.00  | -0.58 | -2.96 | -0.11 | 70   | 0.00  | 0.00  | 0.00  | -0.50 | -2.83 | 0.33  |
| 54    | 74   | 0.00  | 0.00  | 0.00  | -0.46 | -0.39 | 0.27  | 75   | 0.00  | 0.00  | 0.00  | -0.44 | -0.62 | 0.03  |
|       | 70   | 0.00  | 0.00  | 0.00  | -0.58 | -2.85 | 0.28  | 71   | 0.00  | 0.00  | 0.00  | -0.77 | -2.69 | 0.04  |
| 55    | 75   | 0.00  | 0.00  | 0.00  | -0.48 | -0.63 | 0.06  | 76   | 0.00  | 0.00  | 0.00  | -0.51 | -0.47 | -0.20 |
|       | 71   | 0.00  | 0.00  | 0.00  | -0.80 | -2.70 | 0.11  | 72   | 0.00  | 0.00  | 0.00  | -0.61 | -2.98 | -0.15 |
| 56    | 76   | 0.00  | 0.00  | 0.00  | -0.25 | -0.42 | -0.22 | 77   | 0.00  | 0.00  | 0.00  | -0.12 | -0.67 | -0.46 |
|       | 72   | 0.00  | 0.00  | 0.00  | -0.68 | -2.99 | -0.14 | 73   | 0.00  | 0.00  | 0.00  | -0.21 | -2.87 | -0.38 |
| 57    | 62   | 0.00  | 0.00  | 0.00  | 4.63  | 11.95 | -0.07 | 78   | 0.00  | 0.00  | 0.00  | 0.10  | 7.87  | -0.13 |
|       | 58   | 0.00  | 0.00  | 0.00  | 0.92  | -1.01 | 0.59  | 74   | 0.00  | 0.00  | 0.00  | -0.26 | -0.14 | 0.53  |
| 58    | 78   | 0.00  | 0.00  | 0.00  | 1.75  | 8.20  | 0.06  | 79   | 0.00  | 0.00  | 0.00  | 0.86  | 8.41  | 0.05  |
|       | 74   | 0.00  | 0.00  | 0.00  | -0.41 | -0.17 | 0.08  | 75   | 0.00  | 0.00  | 0.00  | -0.45 | -0.66 | 0.08  |
| 59    | 79   | 0.00  | 0.00  | 0.00  | 1.15  | 8.47  | -0.10 | 80   | 0.00  | 0.00  | 0.00  | 1.50  | 8.18  | -0.05 |
|       | 75   | 0.00  | 0.00  | 0.00  | -0.49 | -0.67 | -0.04 | 76   | 0.00  | 0.00  | 0.00  | -0.51 | -0.50 | 0.01  |
| 60    | 80   | 0.00  | 0.00  | 0.00  | 0.53  | 7.99  | 0.21  | 81   | 0.00  | 0.00  | 0.00  | 3.71  | 10.73 | 0.56  |
|       | 76   | 0.00  | 0.00  | 0.00  | -0.26 | -0.45 | -0.62 | 77   | 0.00  | 0.00  | 0.00  | 0.04  | 0.11  | -0.27 |
| 61    | 17   | 0.00  | 0.00  | 0.00  | 0.92  | -0.11 | 0.44  | 86   | 0.00  | 0.00  | 0.00  | 0.61  | -0.04 | 0.50  |
|       | 12   | 0.00  | 0.00  | 0.00  | 0.46  | 1.01  | 0.31  | 82   | 0.00  | 0.00  | 0.00  | 0.15  | 1.08  | 0.37  |
| 62    | 86   | 0.00  | 0.00  | 0.00  | -0.56 | -0.38 | 0.48  | 87   | 0.00  | 0.00  | 0.00  | -0.40 | -0.27 | 0.38  |
|       | 82   | 0.00  | 0.00  | 0.00  | -0.42 | 1.31  | 0.46  | 83   | 0.00  | 0.00  | 0.00  | -0.26 | 1.43  | 0.36  |
| 63    | 87   | 0.00  | 0.00  | 0.00  | -0.57 | -0.39 | 0.40  | 88   | 0.00  | 0.00  | 0.00  | -0.16 | -0.20 | 0.31  |
|       | 83   | 0.00  | 0.00  | 0.00  | -0.44 | 1.69  | 0.37  | 84   | 0.00  | 0.00  | 0.00  | -0.04 | 1.89  | 0.29  |
| 64    | 88   | 0.00  | 0.00  | 0.00  | -0.14 | -0.32 | 0.39  | 89   | 0.00  | 0.00  | 0.00  | 0.69  | 0.00  | 0.24  |
|       | 84   | 0.00  | 0.00  | 0.00  | 0.23  | 2.35  | 0.36  | 85   | 0.00  | 0.00  | 0.00  | 1.06  | 2.66  | 0.22  |
| 65    | 14   | 0.00  | 0.00  | 0.00  | 1.53  | -0.16 | -0.49 | 90   | 0.00  | 0.00  | 0.00  | 0.03  | -0.74 | -0.42 |
|       | 17   | 0.00  | 0.00  | 0.00  | 1.41  | 0.02  | -0.23 | 86   | 0.00  | 0.00  | 0.00  | -0.09 | -0.56 | -0.16 |
| 66    | 90   | 0.00  | 0.00  | 0.00  | -0.54 | -0.85 | -0.25 | 91   | 0.00  | 0.00  | 0.00  | -0.96 | -1.14 | -0.19 |
|       | 86   | 0.00  | 0.00  | 0.00  | -0.72 | -1.26 | -0.06 | 87   | 0.00  | 0.00  | 0.00  | -1.13 | -1.55 | 0.00  |
| 67    | 91   | 0.00  | 0.00  | 0.00  | -0.69 | -1.23 | -0.09 | 92   | 0.00  | 0.00  | 0.00  | -0.79 | -1.37 | -0.05 |
|       | 87   | 0.00  | 0.00  | 0.00  | -0.81 | -1.73 | 0.01  | 88   | 0.00  | 0.00  | 0.00  | -0.91 | -1.88 | 0.05  |
| 68    | 92   | 0.00  | 0.00  | 0.00  | -0.45 | -1.40 | -0.01 | 93   | 0.00  | 0.00  | 0.00  | -0.49 | -1.46 | -0.02 |
|       | 88   | 0.00  | 0.00  | 0.00  | -0.42 | -1.90 | 0.01  | 89   | 0.00  | 0.00  | 0.00  | -0.45 | -1.96 | 0.01  |
| 69    | 94   | 0.00  | 0.00  | 0.00  | -0.12 | -2.13 | -0.47 | 90   | 0.00  | 0.00  | 0.00  | 0.26  | -1.26 | -0.53 |



TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 69   | 0.00  | 0.00  | 0.00  | 0.48  | -1.80 | -0.38 | 14   | 0.00  | 0.00  | 0.00  | 0.85  | -0.92 | -0.44 |
| 70    | 94   | 0.00  | 0.00  | 0.00  | -0.52 | -2.20 | -0.30 | 95   | 0.00  | 0.00  | 0.00  | -0.53 | -2.14 | -0.25 |
|       | 90   | 0.00  | 0.00  | 0.00  | -0.70 | -1.67 | -0.34 | 91   | 0.00  | 0.00  | 0.00  | -0.71 | -1.62 | -0.29 |
| 71    | 95   | 0.00  | 0.00  | 0.00  | -0.68 | -2.18 | -0.19 | 96   | 0.00  | 0.00  | 0.00  | -0.60 | -2.18 | -0.18 |
|       | 91   | 0.00  | 0.00  | 0.00  | -0.75 | -1.59 | -0.16 | 92   | 0.00  | 0.00  | 0.00  | -0.67 | -1.59 | -0.14 |
| 72    | 96   | 0.00  | 0.00  | 0.00  | -0.36 | -2.15 | -0.11 | 97   | 0.00  | 0.00  | 0.00  | -0.28 | -2.15 | -0.07 |
|       | 92   | 0.00  | 0.00  | 0.00  | -0.49 | -1.57 | -0.07 | 93   | 0.00  | 0.00  | 0.00  | -0.42 | -1.57 | -0.04 |
| 73    | 77   | 0.00  | 0.00  | 0.00  | 0.58  | 0.83  | 0.13  | 98   | 0.00  | 0.00  | 0.00  | 1.74  | 2.47  | 0.36  |
|       | 73   | 0.00  | 0.00  | 0.00  | -0.04 | -2.10 | -0.13 | 94   | 0.00  | 0.00  | 0.00  | 1.12  | -0.45 | 0.10  |
| 74    | 98   | 0.00  | 0.00  | 0.00  | 0.37  | 2.92  | 0.11  | 99   | 0.00  | 0.00  | 0.00  | 0.18  | 3.06  | 0.17  |
|       | 94   | 0.00  | 0.00  | 0.00  | 0.21  | -0.05 | -0.12 | 95   | 0.00  | 0.00  | 0.00  | 0.02  | 0.09  | -0.05 |
| 75    | 99   | 0.00  | 0.00  | 0.00  | 0.04  | 3.18  | -0.09 | 100  | 0.00  | 0.00  | 0.00  | 0.13  | 3.24  | -0.03 |
|       | 95   | 0.00  | 0.00  | 0.00  | -0.08 | 0.16  | -0.16 | 96   | 0.00  | 0.00  | 0.00  | 0.01  | 0.22  | -0.10 |
| 76    | 100  | 0.00  | 0.00  | 0.00  | 0.46  | 3.49  | -0.15 | 101  | 0.00  | 0.00  | 0.00  | 1.05  | 3.67  | -0.03 |
|       | 96   | 0.00  | 0.00  | 0.00  | 0.14  | 0.19  | -0.25 | 97   | 0.00  | 0.00  | 0.00  | 0.73  | 0.37  | -0.12 |
| 77    | 94   | 0.00  | 0.00  | 0.00  | -0.39 | -3.13 | -0.12 | 94   | 0.00  | 0.00  | 0.00  | -0.39 | -3.13 | -0.12 |
|       | 73   | 0.00  | 0.00  | 0.00  | -0.39 | -3.13 | -0.12 | 69   | 0.00  | 0.00  | 0.00  | -0.39 | -3.13 | -0.12 |
| 78    | 81   | 0.00  | 0.00  | 0.00  | 0.91  | 4.37  | 0.76  | 81   | 0.00  | 0.00  | 0.00  | 0.91  | 4.37  | 0.76  |
|       | 77   | 0.00  | 0.00  | 0.00  | 0.91  | 4.37  | 0.76  | 98   | 0.00  | 0.00  | 0.00  | 0.91  | 4.37  | 0.76  |
| 79    | 89   | 0.00  | 0.00  | 0.00  | -0.97 | -3.77 | -0.16 | 106  | 0.00  | 0.00  | 0.00  | -0.25 | -2.58 | -0.39 |
|       | 85   | 0.00  | 0.00  | 0.00  | 3.73  | 6.82  | 0.07  | 102  | 0.00  | 0.00  | 0.00  | -0.43 | 4.62  | -0.16 |
| 80    | 106  | 0.00  | 0.00  | 0.00  | -0.65 | -2.65 | -0.13 | 107  | 0.00  | 0.00  | 0.00  | -0.65 | -2.65 | -0.02 |
|       | 102  | 0.00  | 0.00  | 0.00  | 0.91  | 4.89  | -0.13 | 103  | 0.00  | 0.00  | 0.00  | 0.30  | 4.76  | -0.02 |
| 81    | 107  | 0.00  | 0.00  | 0.00  | -0.67 | -2.65 | 0.04  | 108  | 0.00  | 0.00  | 0.00  | -0.61 | -2.62 | 0.16  |
|       | 103  | 0.00  | 0.00  | 0.00  | 0.35  | 4.77  | 0.01  | 104  | 0.00  | 0.00  | 0.00  | 0.85  | 4.90  | 0.13  |
| 82    | 108  | 0.00  | 0.00  | 0.00  | -0.33 | -2.56 | 0.50  | 109  | 0.00  | 0.00  | 0.00  | -0.63 | -3.46 | 0.36  |
|       | 104  | 0.00  | 0.00  | 0.00  | -0.17 | 4.70  | 0.01  | 105  | 0.00  | 0.00  | 0.00  | 3.33  | 6.90  | -0.13 |
| 83    | 93   | 0.00  | 0.00  | 0.00  | -0.08 | -0.76 | -0.03 | 110  | 0.00  | 0.00  | 0.00  | -0.26 | -0.76 | -0.05 |
|       | 89   | 0.00  | 0.00  | 0.00  | -0.76 | -2.71 | 0.02  | 106  | 0.00  | 0.00  | 0.00  | -0.28 | -2.71 | 0.00  |
| 84    | 110  | 0.00  | 0.00  | 0.00  | -0.13 | -0.74 | -0.02 | 111  | 0.00  | 0.00  | 0.00  | -0.17 | -0.78 | 0.04  |
|       | 106  | 0.00  | 0.00  | 0.00  | -0.68 | -2.79 | -0.08 | 107  | 0.00  | 0.00  | 0.00  | -0.66 | -2.67 | -0.02 |
| 85    | 111  | 0.00  | 0.00  | 0.00  | -0.16 | -0.78 | -0.05 | 112  | 0.00  | 0.00  | 0.00  | -0.13 | -0.78 | 0.01  |
|       | 107  | 0.00  | 0.00  | 0.00  | -0.67 | -2.68 | 0.06  | 108  | 0.00  | 0.00  | 0.00  | -0.65 | -2.80 | 0.12  |
| 86    | 112  | 0.00  | 0.00  | 0.00  | -0.19 | -0.80 | -0.01 | 113  | 0.00  | 0.00  | 0.00  | -0.12 | -0.70 | -0.08 |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 108  | 0.00  | 0.00  | 0.00  | -0.36 | -2.74 | 0.13  | 109  | 0.00  | 0.00  | 0.00  | -0.55 | -3.06 | 0.07  |
| 87    | 97   | 0.00  | 0.00  | 0.00  | -0.74 | -3.04 | 0.01  | 114  | 0.00  | 0.00  | 0.00  | -0.26 | -2.84 | 0.06  |
|       | 93   | 0.00  | 0.00  | 0.00  | -0.08 | -0.74 | -0.06 | 110  | 0.00  | 0.00  | 0.00  | -0.27 | -0.78 | -0.01 |
| 88    | 114  | 0.00  | 0.00  | 0.00  | -0.66 | -2.92 | 0.11  | 115  | 0.00  | 0.00  | 0.00  | -0.65 | -2.71 | 0.07  |
|       | 110  | 0.00  | 0.00  | 0.00  | -0.13 | -0.75 | -0.02 | 111  | 0.00  | 0.00  | 0.00  | -0.17 | -0.79 | -0.06 |
| 89    | 115  | 0.00  | 0.00  | 0.00  | -0.68 | -2.72 | -0.03 | 116  | 0.00  | 0.00  | 0.00  | -0.64 | -2.79 | -0.08 |
|       | 111  | 0.00  | 0.00  | 0.00  | -0.16 | -0.78 | 0.04  | 112  | 0.00  | 0.00  | 0.00  | -0.13 | -0.78 | -0.02 |
| 90    | 116  | 0.00  | 0.00  | 0.00  | -0.38 | -2.74 | -0.10 | 117  | 0.00  | 0.00  | 0.00  | -0.52 | -3.01 | -0.04 |
|       | 112  | 0.00  | 0.00  | 0.00  | -0.19 | -0.80 | 0.01  | 113  | 0.00  | 0.00  | 0.00  | -0.12 | -0.70 | 0.07  |
| 91    | 101  | 0.00  | 0.00  | 0.00  | 3.92  | 8.47  | -0.04 | 118  | 0.00  | 0.00  | 0.00  | -0.15 | 5.88  | 0.13  |
|       | 97   | 0.00  | 0.00  | 0.00  | -0.95 | -4.07 | 0.33  | 114  | 0.00  | 0.00  | 0.00  | -0.23 | -2.66 | 0.51  |
| 92    | 118  | 0.00  | 0.00  | 0.00  | 1.18  | 6.15  | 0.17  | 119  | 0.00  | 0.00  | 0.00  | 0.48  | 5.89  | 0.04  |
|       | 114  | 0.00  | 0.00  | 0.00  | -0.63 | -2.74 | 0.21  | 115  | 0.00  | 0.00  | 0.00  | -0.64 | -2.69 | 0.08  |
| 93    | 119  | 0.00  | 0.00  | 0.00  | 0.58  | 5.91  | 0.01  | 120  | 0.00  | 0.00  | 0.00  | 1.04  | 5.93  | -0.11 |
|       | 115  | 0.00  | 0.00  | 0.00  | -0.67 | -2.69 | 0.02  | 116  | 0.00  | 0.00  | 0.00  | -0.61 | -2.61 | -0.11 |
| 94    | 120  | 0.00  | 0.00  | 0.00  | 0.09  | 5.74  | 0.03  | 121  | 0.00  | 0.00  | 0.00  | 3.44  | 7.88  | 0.16  |
|       | 116  | 0.00  | 0.00  | 0.00  | -0.34 | -2.55 | -0.45 | 117  | 0.00  | 0.00  | 0.00  | -0.61 | -3.42 | -0.32 |
| 95    | 109  | 0.00  | 0.00  | 0.00  | -0.61 | -3.46 | -0.37 | 126  | 0.00  | 0.00  | 0.00  | -0.31 | -2.59 | -0.50 |
|       | 105  | 0.00  | 0.00  | 0.00  | 3.23  | 6.88  | 0.13  | 122  | 0.00  | 0.00  | 0.00  | -0.03 | 4.80  | 0.00  |
| 96    | 126  | 0.00  | 0.00  | 0.00  | -0.61 | -2.65 | -0.19 | 127  | 0.00  | 0.00  | 0.00  | -0.61 | -2.62 | -0.07 |
|       | 122  | 0.00  | 0.00  | 0.00  | 1.00  | 5.00  | -0.14 | 123  | 0.00  | 0.00  | 0.00  | 0.22  | 4.75  | -0.02 |
| 97    | 127  | 0.00  | 0.00  | 0.00  | -0.65 | -2.63 | 0.01  | 128  | 0.00  | 0.00  | 0.00  | -0.56 | -2.60 | 0.13  |
|       | 123  | 0.00  | 0.00  | 0.00  | 0.38  | 4.78  | -0.01 | 124  | 0.00  | 0.00  | 0.00  | 0.83  | 4.89  | 0.11  |
| 98    | 128  | 0.00  | 0.00  | 0.00  | -0.35 | -2.56 | 0.42  | 129  | 0.00  | 0.00  | 0.00  | -0.64 | -3.37 | 0.30  |
|       | 124  | 0.00  | 0.00  | 0.00  | 0.13  | 4.75  | -0.03 | 125  | 0.00  | 0.00  | 0.00  | 2.89  | 6.62  | -0.15 |
| 99    | 113  | 0.00  | 0.00  | 0.00  | -0.13 | -0.70 | 0.08  | 130  | 0.00  | 0.00  | 0.00  | -0.18 | -0.79 | 0.01  |
|       | 109  | 0.00  | 0.00  | 0.00  | -0.53 | -3.05 | -0.06 | 126  | 0.00  | 0.00  | 0.00  | -0.35 | -2.76 | -0.13 |
| 100   | 130  | 0.00  | 0.00  | 0.00  | -0.11 | -0.77 | -0.01 | 131  | 0.00  | 0.00  | 0.00  | -0.13 | -0.78 | 0.05  |
|       | 126  | 0.00  | 0.00  | 0.00  | -0.65 | -2.82 | -0.12 | 127  | 0.00  | 0.00  | 0.00  | -0.62 | -2.67 | -0.07 |
| 101   | 131  | 0.00  | 0.00  | 0.00  | -0.11 | -0.78 | -0.04 | 132  | 0.00  | 0.00  | 0.00  | -0.12 | -0.76 | 0.01  |
|       | 127  | 0.00  | 0.00  | 0.00  | -0.66 | -2.68 | 0.02  | 128  | 0.00  | 0.00  | 0.00  | -0.59 | -2.77 | 0.08  |
| 102   | 132  | 0.00  | 0.00  | 0.00  | -0.15 | -0.76 | 0.00  | 133  | 0.00  | 0.00  | 0.00  | -0.28 | -0.69 | -0.07 |
|       | 128  | 0.00  | 0.00  | 0.00  | -0.38 | -2.72 | 0.08  | 129  | 0.00  | 0.00  | 0.00  | -0.56 | -2.96 | 0.01  |
| 103   | 117  | 0.00  | 0.00  | 0.00  | -0.53 | -3.01 | 0.09  | 134  | 0.00  | 0.00  | 0.00  | -0.33 | -2.68 | 0.15  |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 113  | 0.00              | 0.00              | 0.00              | -0.13             | -0.70             | -0.08             | 130  | 0.00              | 0.00              | 0.00              | -0.18             | -0.78             | -0.02             |
| 104   | 134  | 0.00              | 0.00              | 0.00              | -0.64             | -2.74             | 0.15              | 135  | 0.00              | 0.00              | 0.00              | -0.58             | -2.54             | 0.10              |
|       | 130  | 0.00              | 0.00              | 0.00              | -0.11             | -0.77             | 0.00              | 131  | 0.00              | 0.00              | 0.00              | -0.13             | -0.78             | -0.05             |
| 105   | 135  | 0.00              | 0.00              | 0.00              | -0.64             | -2.55             | 0.00              | 136  | 0.00              | 0.00              | 0.00              | -0.54             | -2.59             | -0.05             |
|       | 131  | 0.00              | 0.00              | 0.00              | -0.11             | -0.78             | 0.04              | 132  | 0.00              | 0.00              | 0.00              | -0.12             | -0.76             | -0.01             |
| 106   | 136  | 0.00              | 0.00              | 0.00              | -0.37             | -2.56             | -0.05             | 137  | 0.00              | 0.00              | 0.00              | -0.47             | -2.73             | 0.03              |
|       | 132  | 0.00              | 0.00              | 0.00              | -0.15             | -0.76             | 0.00              | 133  | 0.00              | 0.00              | 0.00              | -0.28             | -0.69             | 0.07              |
| 107   | 121  | 0.00              | 0.00              | 0.00              | 3.43              | 7.88              | -0.14             | 138  | 0.00              | 0.00              | 0.00              | 0.15              | 5.66              | -0.01             |
|       | 117  | 0.00              | 0.00              | 0.00              | -0.61             | -3.42             | 0.43              | 134  | 0.00              | 0.00              | 0.00              | -0.29             | -2.50             | 0.56              |
| 108   | 138  | 0.00              | 0.00              | 0.00              | 1.21              | 5.87              | 0.15              | 139  | 0.00              | 0.00              | 0.00              | 0.36              | 5.53              | 0.03              |
|       | 134  | 0.00              | 0.00              | 0.00              | -0.60             | -2.56             | 0.24              | 135  | 0.00              | 0.00              | 0.00              | -0.57             | -2.49             | 0.12              |
| 109   | 139  | 0.00              | 0.00              | 0.00              | 0.58              | 5.58              | 0.03              | 140  | 0.00              | 0.00              | 0.00              | 0.96              | 5.58              | -0.09             |
|       | 135  | 0.00              | 0.00              | 0.00              | -0.63             | -2.51             | 0.04              | 136  | 0.00              | 0.00              | 0.00              | -0.51             | -2.43             | -0.07             |
| 110   | 140  | 0.00              | 0.00              | 0.00              | 0.36              | 5.46              | 0.06              | 141  | 0.00              | 0.00              | 0.00              | 2.95              | 7.25              | 0.18              |
|       | 136  | 0.00              | 0.00              | 0.00              | -0.33             | -2.39             | -0.37             | 137  | 0.00              | 0.00              | 0.00              | -0.55             | -3.16             | -0.25             |
| 111   | 129  | 0.00              | 0.00              | 0.00              | -0.73             | -3.39             | -0.41             | 146  | 0.00              | 0.00              | 0.00              | -0.71             | -2.60             | -0.65             |
|       | 125  | 0.00              | 0.00              | 0.00              | 3.33              | 6.71              | 0.15              | 142  | 0.00              | 0.00              | 0.00              | -0.28             | 4.45              | -0.09             |
| 112   | 146  | 0.00              | 0.00              | 0.00              | -1.06             | -2.67             | -0.41             | 147  | 0.00              | 0.00              | 0.00              | -1.64             | -2.60             | -0.63             |
|       | 142  | 0.00              | 0.00              | 0.00              | 1.04              | 4.72              | -0.13             | 143  | 0.00              | 0.00              | 0.00              | -0.03             | 3.94              | -0.34             |
| 113   | 147  | 0.00              | 0.00              | 0.00              | -1.74             | -2.62             | -0.73             | 148  | 0.00              | 0.00              | 0.00              | -1.42             | -1.69             | -1.13             |
|       | 143  | 0.00              | 0.00              | 0.00              | 0.34              | 4.01              | -0.20             | 144  | 0.00              | 0.00              | 0.00              | 0.40              | 2.46              | -0.60             |
| 114   | 148  | 0.00              | 0.00              | 0.00              | -1.52             | -1.71             | -1.21             | 149  | 0.00              | 0.00              | 0.00              | 4.02              | -0.91             | -0.56             |
|       | 144  | 0.00              | 0.00              | 0.00              | -0.25             | 2.33              | -0.82             | 145  | 0.00              | 0.00              | 0.00              | 1.40              | 2.45              | -0.17             |
| 115   | 133  | 0.00              | 0.00              | 0.00              | -0.23             | -0.68             | 0.11              | 150  | 0.00              | 0.00              | 0.00              | -0.82             | -0.80             | -0.01             |
|       | 129  | 0.00              | 0.00              | 0.00              | -0.65             | -2.98             | -0.14             | 146  | 0.00              | 0.00              | 0.00              | -0.73             | -2.67             | -0.25             |
| 116   | 150  | 0.00              | 0.00              | 0.00              | -0.74             | -0.79             | 0.09              | 151  | 0.00              | 0.00              | 0.00              | -1.51             | -0.73             | 0.02              |
|       | 146  | 0.00              | 0.00              | 0.00              | -1.08             | -2.74             | -0.37             | 147  | 0.00              | 0.00              | 0.00              | -1.61             | -2.45             | -0.44             |
| 117   | 151  | 0.00              | 0.00              | 0.00              | -1.61             | -0.75             | 0.11              | 152  | 0.00              | 0.00              | 0.00              | -0.95             | -0.33             | 0.10              |
|       | 147  | 0.00              | 0.00              | 0.00              | -1.71             | -2.47             | -0.58             | 148  | 0.00              | 0.00              | 0.00              | -1.44             | -1.79             | -0.59             |
| 118   | 152  | 0.00              | 0.00              | 0.00              | -1.13             | -0.37             | 0.30              | 153  | 0.00              | 0.00              | 0.00              | 5.01              | 0.81              | 0.48              |
|       | 148  | 0.00              | 0.00              | 0.00              | -1.54             | -1.81             | -0.79             | 149  | 0.00              | 0.00              | 0.00              | 4.37              | 0.87              | -0.61             |
| 119   | 137  | 0.00              | 0.00              | 0.00              | -0.61             | -2.76             | 0.17              | 154  | 0.00              | 0.00              | 0.00              | -0.59             | -2.38             | 0.30              |
|       | 133  | 0.00              | 0.00              | 0.00              | -0.23             | -0.68             | -0.11             | 150  | 0.00              | 0.00              | 0.00              | -0.82             | -0.81             | 0.03              |
| 120   | 154  | 0.00              | 0.00              | 0.00              | -0.99             | -2.46             | 0.40              | 155  | 0.00              | 0.00              | 0.00              | -1.37             | -2.13             | 0.51              |



Engineering & Construction



GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

116 di/of 501

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 150  | 0.00  | 0.00  | 0.00  | -0.74 | -0.80 | -0.05 | 151  | 0.00  | 0.00  | 0.00  | -1.52 | -0.76 | 0.06  |
| 121   | 155  | 0.00  | 0.00  | 0.00  | -1.51 | -2.16 | 0.62  | 156  | 0.00  | 0.00  | 0.00  | -1.18 | -1.69 | 0.71  |
|       | 151  | 0.00  | 0.00  | 0.00  | -1.61 | -0.78 | 0.01  | 152  | 0.00  | 0.00  | 0.00  | -0.93 | -0.24 | 0.11  |
| 122   | 156  | 0.00  | 0.00  | 0.00  | -1.39 | -1.74 | 0.97  | 157  | 0.00  | 0.00  | 0.00  | 3.88  | 1.62  | 0.67  |
|       | 152  | 0.00  | 0.00  | 0.00  | -1.11 | -0.28 | -0.07 | 153  | 0.00  | 0.00  | 0.00  | 4.85  | -0.02 | -0.36 |
| 123   | 141  | 0.00  | 0.00  | 0.00  | 3.57  | 7.37  | -0.15 | 158  | 0.00  | 0.00  | 0.00  | -0.20 | 4.90  | 0.10  |
|       | 137  | 0.00  | 0.00  | 0.00  | -0.69 | -3.19 | 0.49  | 154  | 0.00  | 0.00  | 0.00  | -0.58 | -2.29 | 0.74  |
| 124   | 158  | 0.00  | 0.00  | 0.00  | 1.25  | 5.19  | 0.15  | 159  | 0.00  | 0.00  | 0.00  | 0.02  | 4.31  | 0.34  |
|       | 154  | 0.00  | 0.00  | 0.00  | -0.97 | -2.37 | 0.49  | 155  | 0.00  | 0.00  | 0.00  | -1.40 | -2.27 | 0.68  |
| 125   | 159  | 0.00  | 0.00  | 0.00  | 0.59  | 4.42  | 0.19  | 160  | 0.00  | 0.00  | 0.00  | 0.34  | 2.85  | 0.51  |
|       | 155  | 0.00  | 0.00  | 0.00  | -1.53 | -2.30 | 0.79  | 156  | 0.00  | 0.00  | 0.00  | -1.14 | -1.49 | 1.11  |
| 126   | 160  | 0.00  | 0.00  | 0.00  | 0.60  | 2.90  | 0.66  | 161  | 0.00  | 0.00  | 0.00  | 0.47  | 3.31  | 0.05  |
|       | 156  | 0.00  | 0.00  | 0.00  | -1.35 | -1.53 | 1.32  | 157  | 0.00  | 0.00  | 0.00  | 3.17  | -1.92 | 0.70  |
| 127   | 162  | -0.10 | -0.93 | 1.44  | -0.08 | -0.41 | -0.35 | 301  | 0.07  | -0.06 | 2.29  | 0.02  | 0.10  | -0.35 |
|       | 18   | -0.10 | -0.93 | 0.01  | 0.47  | 2.37  | 0.34  | 283  | 0.07  | -0.06 | 0.85  | -0.21 | -1.03 | 0.34  |
| 128   | 163  | -0.89 | -3.45 | 2.49  | 1.34  | 6.72  | -0.56 | 304  | -0.02 | 0.91  | 2.93  | -0.29 | -1.44 | -0.56 |
|       | 19   | -0.89 | -3.45 | 0.48  | -0.91 | -4.54 | 0.55  | 22   | -0.02 | 0.91  | 0.93  | -0.16 | -0.78 | 0.55  |
| 129   | 164  | -0.66 | -2.39 | -0.44 | 0.68  | 3.41  | -0.23 | 310  | 0.07  | 1.24  | -0.43 | -0.18 | -0.89 | -0.23 |
|       | 11   | -0.66 | -2.39 | -1.66 | -0.30 | -1.48 | 0.22  | 307  | 0.07  | 1.24  | -1.65 | 0.09  | 0.47  | 0.22  |
| 130   | 166  | -1.30 | -5.12 | 2.53  | 1.44  | 7.21  | -0.67 | 316  | 0.22  | 2.46  | 2.55  | -0.34 | -1.70 | -0.67 |
|       | 165  | -1.30 | -5.12 | -0.35 | -0.28 | -1.38 | 0.66  | 313  | 0.22  | 2.46  | -0.34 | 0.11  | 0.54  | 0.66  |
| 131   | 167  | -0.71 | -2.91 | 2.49  | 0.73  | 3.64  | -0.28 | 319  | 0.02  | 0.72  | 2.07  | -0.19 | -0.93 | -0.28 |
|       | 12   | -0.71 | -2.91 | 0.87  | -0.33 | -1.64 | 0.27  | 82   | 0.02  | 0.72  | 0.45  | 0.08  | 0.41  | 0.27  |
| 132   | 168  | -0.97 | -3.62 | 2.66  | 1.51  | 7.56  | -0.69 | 322  | 0.01  | 1.26  | 3.10  | -0.35 | -1.76 | -0.69 |
|       | 85   | -0.97 | -3.62 | 0.78  | -1.00 | -5.01 | 0.68  | 102  | 0.01  | 1.26  | 1.23  | -0.44 | -2.20 | 0.68  |
| 133   | 169  | -0.95 | -3.75 | 3.12  | 1.47  | 7.34  | -0.79 | 325  | 0.02  | 1.10  | 3.50  | -0.33 | -1.63 | -0.79 |
|       | 105  | -0.95 | -3.75 | 0.91  | -0.86 | -4.32 | 0.78  | 122  | 0.02  | 1.10  | 1.30  | -0.45 | -2.25 | 0.78  |
| 134   | 170  | -0.88 | -3.47 | 3.29  | 1.42  | 7.08  | -0.72 | 328  | 0.03  | 1.07  | 3.69  | -0.31 | -1.53 | -0.72 |
|       | 125  | -0.88 | -3.47 | 1.25  | -0.84 | -4.21 | 0.71  | 142  | 0.03  | 1.07  | 1.65  | -0.44 | -2.18 | 0.71  |
| 135   | 172  | -0.15 | -1.23 | 0.60  | 0.12  | 0.62  | 0.42  | 331  | 0.08  | -0.05 | 0.33  | -0.03 | -0.16 | 0.42  |
|       | 20   | -0.15 | -1.23 | -0.68 | -0.43 | -2.17 | -0.43 | 298  | 0.08  | -0.05 | -0.95 | 0.43  | 2.15  | -0.43 |
| 136   | 173  | -0.89 | -3.24 | 1.45  | -1.52 | -7.62 | 0.89  | 334  | -0.07 | 0.87  | 1.43  | 0.33  | 1.63  | 0.89  |
|       | 21   | -0.89 | -3.24 | -0.06 | 1.05  | 5.23  | -0.90 | 37   | -0.07 | 0.87  | -0.07 | 0.60  | 3.01  | -0.90 |
| 137   | 174  | -0.88 | -3.15 | 2.19  | -1.67 | -8.34 | 0.86  | 337  | 0.00  | 1.23  | 2.40  | 0.40  | 1.99  | 0.86  |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 41   | -0.88 | -3.15 | 0.98  | 1.36  | 6.80  | -0.87 | 59   | 0.00  | 1.23  | 1.19  | 1.11  | 5.54  | -0.87 |
| 138   | 175  | -0.95 | -3.74 | 3.08  | -1.80 | -8.98 | 0.77  | 340  | 0.07  | 1.35  | 3.34  | 0.43  | 2.15  | 0.77  |
|       | 62   | -0.95 | -3.74 | 1.08  | 1.77  | 8.83  | -0.78 | 78   | 0.07  | 1.35  | 1.34  | 1.16  | 5.80  | -0.78 |
| 139   | 176  | -0.86 | -3.48 | 3.36  | -1.69 | -8.46 | 0.89  | 343  | -0.03 | 0.69  | 3.22  | 0.37  | 1.84  | 0.89  |
|       | 81   | -0.86 | -3.48 | 1.59  | 1.46  | 7.30  | -0.90 | 98   | -0.03 | 0.69  | 1.45  | 1.01  | 5.05  | -0.90 |
| 140   | 177  | -0.93 | -3.57 | 3.01  | -1.64 | -8.18 | 0.77  | 346  | 0.02  | 1.17  | 3.41  | 0.38  | 1.90  | 0.77  |
|       | 101  | -0.93 | -3.57 | 1.06  | 1.22  | 6.10  | -0.78 | 118  | 0.02  | 1.17  | 1.45  | 0.67  | 3.34  | -0.78 |
| 141   | 178  | -0.94 | -3.74 | 3.25  | -1.60 | -7.98 | 0.84  | 349  | 0.02  | 1.09  | 3.68  | 0.36  | 1.78  | 0.84  |
|       | 121  | -0.94 | -3.74 | 1.00  | 1.09  | 5.43  | -0.85 | 138  | 0.02  | 1.09  | 1.43  | 0.62  | 3.09  | -0.85 |
| 142   | 179  | -0.88 | -3.50 | 3.62  | -1.53 | -7.67 | 0.76  | 352  | 0.04  | 1.10  | 4.21  | 0.33  | 1.65  | 0.76  |
|       | 141  | -0.88 | -3.50 | 1.45  | 1.02  | 5.08  | -0.77 | 158  | 0.04  | 1.10  | 2.04  | 0.56  | 2.79  | -0.77 |
| 143   | 162  | -0.40 | -1.41 | 0.84  | 0.70  | 3.50  | 0.03  | 355  | 0.05  | 0.82  | 0.92  | -0.19 | -0.96 | 0.03  |
|       | 18   | -0.40 | -1.41 | 1.19  | -0.30 | -1.51 | -0.03 | 286  | 0.05  | 0.82  | 1.28  | 0.69  | 3.45  | -0.03 |
| 144   | 171  | -0.42 | -1.49 | 1.25  | -0.76 | -3.81 | -0.03 | 358  | 0.06  | 0.89  | 1.52  | 0.21  | 1.04  | -0.03 |
|       | 145  | -0.42 | -1.49 | 1.59  | 0.37  | 1.85  | 0.02  | 149  | 0.06  | 0.89  | 1.86  | -0.69 | -3.43 | 0.02  |
| 145   | 164  | -0.83 | -2.89 | 3.66  | -0.03 | -0.14 | -0.01 | 361  | 0.02  | 1.35  | 3.69  | 0.00  | 0.00  | -0.01 |
|       | 11   | -0.83 | -2.89 | 3.02  | -0.07 | -0.36 | 0.00  | 266  | 0.02  | 1.35  | 3.05  | -0.11 | -0.57 | 0.00  |
| 146   | 181  | 0.06  | -0.20 | 2.57  | -0.02 | -0.12 | 0.74  | 362  | 0.10  | -0.01 | 2.38  | -0.04 | -0.22 | 0.74  |
|       | 13   | 0.06  | -0.20 | 2.06  | -0.89 | -4.45 | -0.74 | 277  | 0.10  | -0.01 | 1.87  | 0.09  | 0.45  | -0.74 |
| 147   | 167  | -0.87 | -3.02 | 3.90  | -0.02 | -0.12 | 0.03  | 363  | 0.02  | 1.42  | 3.95  | 0.01  | 0.06  | 0.03  |
|       | 12   | -0.87 | -3.02 | 3.22  | 0.09  | 0.43  | -0.04 | 280  | 0.02  | 1.42  | 3.28  | 0.12  | 0.61  | -0.04 |
| 148   | 183  | 0.06  | -0.20 | 2.73  | 0.02  | 0.11  | -0.74 | 364  | 0.10  | -0.02 | 2.59  | 0.04  | 0.19  | -0.74 |
|       | 17   | 0.06  | -0.20 | 2.22  | 0.89  | 4.44  | 0.73  | 282  | 0.10  | -0.02 | 2.08  | -0.09 | -0.44 | 0.73  |
| 149   | 182  | -0.14 | -0.26 | 0.66  | -0.33 | -1.63 | 0.12  | 365  | -0.05 | 0.22  | 1.03  | 0.08  | 0.39  | 0.12  |
|       | 16   | -0.14 | -0.26 | 0.88  | -0.09 | -0.47 | -0.13 | 42   | -0.05 | 0.22  | 1.26  | -0.24 | -1.19 | -0.13 |
| 150   | 185  | -0.01 | -0.08 | -0.08 | 0.00  | -0.02 | -0.02 | 368  | -0.01 | -0.07 | -0.27 | 0.00  | 0.02  | -0.02 |
|       | 15   | -0.01 | -0.08 | -0.07 | -0.06 | -0.30 | 0.01  | 63   | -0.01 | -0.07 | -0.26 | -0.10 | -0.51 | 0.01  |
| 151   | 217  | 0.10  | -0.02 | -0.16 | -1.82 | -0.51 | -0.58 | 218  | 0.09  | -0.06 | -0.23 | -2.33 | -1.42 | 0.38  |
|       | 213  | 0.72  | 0.10  | 0.02  | -2.53 | -0.64 | -0.72 | 214  | 0.72  | 0.06  | -0.05 | -3.71 | 0.24  | 0.24  |
| 152   | 218  | 0.22  | -0.04 | -0.09 | -2.40 | -1.43 | 0.02  | 219  | 0.21  | -0.06 | -0.13 | -0.92 | -0.67 | 1.32  |
|       | 214  | 0.89  | 0.09  | 0.01  | -3.57 | 0.27  | 0.70  | 215  | 0.88  | 0.07  | -0.03 | -2.88 | -1.62 | 2.00  |
| 153   | 219  | 0.29  | -0.05 | -0.03 | -0.43 | -0.57 | 3.34  | 220  | 0.27  | -0.15 | -0.04 | 1.80  | -5.37 | 1.67  |
|       | 215  | 0.95  | 0.08  | 0.04  | -4.25 | -1.89 | 1.52  | 2    | 0.93  | -0.01 | 0.03  | 12.81 | 10.94 | -0.15 |
| 154   | 3    | -0.14 | -0.27 | -0.41 | 1.69  | -0.24 | -0.63 | 221  | -0.08 | 0.00  | -0.32 | -1.00 | -0.43 | -0.93 |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 216  | -0.14 | -0.27 | -0.51 | 3.14  | 1.22  | -0.25 | 217  | -0.08 | 0.00  | -0.42 | -1.49 | -0.93 | -0.55 |
| 155   | 221  | -0.22 | -0.04 | -0.26 | -1.15 | -0.46 | -0.77 | 222  | -0.22 | -0.05 | -0.26 | -0.98 | -0.86 | -0.01 |
|       | 217  | 0.13  | 0.03  | -0.25 | -1.92 | -1.02 | -0.59 | 218  | 0.13  | 0.02  | -0.25 | -2.26 | -1.07 | 0.17  |
| 156   | 222  | -0.26 | -0.05 | -0.14 | -1.03 | -0.87 | -0.15 | 223  | -0.27 | -0.09 | -0.15 | -0.43 | -1.39 | 0.61  |
|       | 218  | 0.25  | 0.05  | -0.12 | -2.33 | -1.08 | 0.47  | 219  | 0.24  | 0.01  | -0.12 | -1.11 | -1.60 | 1.22  |
| 157   | 223  | -0.28 | -0.09 | -0.03 | -0.21 | -1.35 | 0.49  | 4    | -0.29 | -0.11 | -0.05 | 0.07  | -1.05 | -0.39 |
|       | 219  | 0.31  | 0.03  | -0.02 | -0.62 | -1.50 | 1.65  | 220  | 0.31  | 0.01  | -0.04 | 2.10  | -3.86 | 0.77  |
| 158   | 227  | 0.22  | -0.07 | 0.14  | -0.93 | -0.68 | -1.33 | 228  | 0.22  | -0.04 | 0.10  | -2.44 | -1.45 | -0.02 |
|       | 224  | 0.90  | 0.07  | 0.03  | -2.89 | -1.62 | -2.01 | 225  | 0.90  | 0.09  | -0.01 | -3.62 | 0.27  | -0.70 |
| 159   | 228  | 0.09  | -0.06 | 0.24  | -2.37 | -1.44 | -0.37 | 229  | 0.10  | -0.02 | 0.17  | -1.86 | -0.51 | 0.59  |
|       | 225  | 0.72  | 0.07  | 0.05  | -3.76 | 0.24  | -0.24 | 226  | 0.73  | 0.11  | -0.02 | -2.59 | -0.66 | 0.72  |
| 160   | 229  | -0.07 | -0.09 | 0.34  | -1.43 | -0.43 | 1.26  | 230  | -0.06 | -0.05 | 0.23  | 2.77  | -0.94 | -0.20 |
|       | 226  | 0.39  | 0.00  | 0.16  | -3.67 | -0.88 | 0.97  | 5    | 0.40  | 0.04  | 0.04  | 9.54  | 3.77  | -0.49 |
| 161   | 4    | -0.29 | -0.11 | 0.06  | 0.09  | -1.05 | 0.38  | 231  | -0.28 | -0.09 | 0.04  | -0.22 | -1.36 | -0.50 |
|       | 220  | 0.31  | 0.01  | 0.04  | 2.09  | -3.86 | -0.78 | 227  | 0.31  | 0.03  | 0.02  | -0.61 | -1.51 | -1.65 |
| 162   | 231  | -0.27 | -0.09 | 0.16  | -0.43 | -1.40 | -0.61 | 232  | -0.26 | -0.06 | 0.15  | -1.05 | -0.89 | 0.15  |
|       | 227  | 0.24  | 0.02  | 0.13  | -1.12 | -1.61 | -1.23 | 228  | 0.25  | 0.05  | 0.12  | -2.37 | -1.10 | -0.46 |
| 163   | 232  | -0.23 | -0.05 | 0.27  | -1.00 | -0.88 | 0.01  | 233  | -0.23 | -0.05 | 0.27  | -1.19 | -0.48 | 0.78  |
|       | 228  | 0.13  | 0.02  | 0.27  | -2.30 | -1.08 | -0.17 | 229  | 0.13  | 0.02  | 0.26  | -1.97 | -1.04 | 0.60  |
| 164   | 233  | -0.09 | -0.01 | 0.33  | -1.04 | -0.45 | 0.95  | 6    | -0.14 | -0.28 | 0.43  | 1.73  | -0.27 | 0.64  |
|       | 229  | -0.09 | -0.01 | 0.43  | -1.54 | -0.95 | 0.56  | 230  | -0.14 | -0.28 | 0.52  | 3.22  | 1.27  | 0.25  |
| 165   | 235  | -0.57 | -0.09 | 0.09  | -0.07 | -0.02 | -0.25 | 236  | -0.57 | -0.10 | 0.09  | -0.36 | 0.10  | 0.14  |
|       | 231  | -0.25 | -0.03 | 0.16  | -0.39 | -1.18 | -0.43 | 232  | -0.25 | -0.04 | 0.16  | -1.03 | -0.80 | -0.03 |
| 166   | 236  | -0.41 | -0.06 | 0.17  | -0.32 | 0.10  | 0.11  | 237  | -0.42 | -0.12 | 0.21  | -0.51 | 0.13  | 0.81  |
|       | 232  | -0.23 | -0.03 | 0.29  | -0.98 | -0.79 | 0.08  | 233  | -0.24 | -0.09 | 0.32  | -1.26 | -0.79 | 0.78  |
| 167   | 237  | -0.18 | -0.05 | 0.27  | -0.46 | 0.14  | 0.99  | 238  | -0.21 | -0.22 | 0.25  | 0.65  | -0.57 | 0.61  |
|       | 233  | -0.09 | -0.03 | 0.39  | -1.10 | -0.76 | 0.95  | 6    | -0.12 | -0.20 | 0.37  | 1.97  | 0.92  | 0.57  |
| 168   | 7    | -1.05 | -0.11 | 0.00  | 0.22  | 1.63  | 0.02  | 239  | -1.05 | -0.12 | 0.00  | 0.32  | 1.84  | -0.03 |
|       | 234  | -0.62 | -0.02 | 0.04  | -0.03 | -0.16 | -0.06 | 235  | -0.62 | -0.04 | 0.04  | -0.09 | -0.02 | -0.12 |
| 169   | 239  | -0.95 | -0.10 | 0.00  | 0.22  | 1.82  | -0.04 | 240  | -0.96 | -0.14 | 0.00  | 0.44  | 2.14  | 0.17  |
|       | 235  | -0.55 | -0.02 | 0.12  | -0.07 | -0.02 | -0.17 | 236  | -0.56 | -0.06 | 0.12  | -0.35 | 0.16  | 0.04  |
| 170   | 240  | -0.68 | -0.08 | 0.02  | 0.25  | 2.10  | 0.02  | 241  | -0.70 | -0.15 | 0.02  | 0.44  | 1.80  | 0.55  |
|       | 236  | -0.40 | -0.02 | 0.20  | -0.31 | 0.17  | 0.19  | 237  | -0.41 | -0.09 | 0.20  | -0.58 | -0.22 | 0.73  |
| 171   | 241  | -0.24 | -0.02 | 0.09  | -0.01 | 1.71  | 0.54  | 8    | -0.26 | -0.13 | 0.02  | 0.07  | -0.69 | 0.26  |

**TENS. Var.Neve h<=1000: SHELL**

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 237  | -0.17 | 0.00  | 0.26  | -0.53 | -0.21 | 0.99  | 238  | -0.20 | -0.12 | 0.19  | 0.92  | 0.77  | 0.70  |
| 172   | 243  | -0.41 | -0.12 | -0.20 | -0.49 | 0.14  | -0.79 | 244  | -0.40 | -0.06 | -0.16 | -0.31 | 0.11  | -0.11 |
|       | 221  | -0.23 | -0.08 | -0.31 | -1.21 | -0.76 | -0.76 | 222  | -0.22 | -0.02 | -0.27 | -0.96 | -0.76 | -0.08 |
| 173   | 244  | -0.56 | -0.10 | -0.09 | -0.35 | 0.10  | -0.15 | 245  | -0.56 | -0.09 | -0.08 | -0.06 | -0.02 | 0.24  |
|       | 222  | -0.25 | -0.04 | -0.16 | -1.01 | -0.77 | 0.03  | 223  | -0.25 | -0.03 | -0.15 | -0.38 | -1.17 | 0.42  |
| 174   | 245  | -0.64 | -0.11 | -0.01 | -0.08 | -0.02 | 0.20  | 234  | -0.64 | -0.10 | -0.03 | -0.02 | -0.13 | -0.09 |
|       | 223  | -0.26 | -0.03 | -0.04 | -0.16 | -1.12 | 0.40  | 4    | -0.26 | -0.03 | -0.05 | -0.07 | -1.77 | 0.11  |
| 175   | 9    | -0.25 | -0.13 | -0.02 | 0.08  | -0.68 | -0.25 | 246  | -0.23 | -0.01 | -0.08 | -0.02 | 1.66  | -0.53 |
|       | 242  | -0.19 | -0.12 | -0.18 | 0.90  | 0.76  | -0.68 | 243  | -0.17 | 0.00  | -0.24 | -0.50 | -0.19 | -0.96 |
| 176   | 246  | -0.68 | -0.14 | -0.02 | 0.44  | 1.75  | -0.54 | 247  | -0.67 | -0.08 | -0.01 | 0.24  | 2.05  | -0.02 |
|       | 243  | -0.40 | -0.09 | -0.19 | -0.56 | -0.20 | -0.71 | 244  | -0.39 | -0.02 | -0.19 | -0.30 | 0.17  | -0.19 |
| 177   | 247  | -0.94 | -0.14 | 0.00  | 0.44  | 2.09  | -0.17 | 248  | -0.94 | -0.10 | 0.01  | 0.21  | 1.79  | 0.04  |
|       | 244  | -0.55 | -0.06 | -0.11 | -0.34 | 0.16  | -0.04 | 245  | -0.54 | -0.02 | -0.11 | -0.06 | -0.01 | 0.16  |
| 178   | 248  | -1.05 | -0.12 | 0.00  | 0.32  | 1.81  | 0.02  | 7    | -1.04 | -0.11 | 0.01  | 0.22  | 1.63  | -0.03 |
|       | 245  | -0.62 | -0.04 | -0.04 | -0.08 | -0.02 | 0.10  | 234  | -0.62 | -0.02 | -0.03 | -0.03 | -0.16 | 0.05  |
| 179   | 254  | 0.22  | 0.13  | 0.01  | 0.06  | 0.48  | -0.20 | 255  | 0.15  | -0.21 | -0.91 | 0.05  | -0.55 | 0.05  |
|       | 249  | 0.82  | 0.25  | 0.57  | -0.04 | -0.60 | -0.29 | 250  | 0.75  | -0.09 | -0.35 | -0.10 | 0.82  | -0.04 |
| 180   | 255  | 0.89  | 0.72  | -0.64 | 0.08  | -0.55 | -0.21 | 256  | 0.32  | -2.10 | -0.31 | -0.60 | -0.52 | -0.28 |
|       | 250  | 1.70  | 0.88  | 0.46  | -0.18 | 0.80  | 0.65  | 2    | 1.14  | -1.94 | 0.79  | -0.55 | -3.32 | 0.59  |
| 181   | 256  | 0.32  | -2.11 | 0.31  | -0.60 | -0.52 | 0.29  | 257  | 0.89  | 0.71  | 0.64  | 0.08  | -0.55 | 0.21  |
|       | 2    | 1.11  | -1.95 | -0.81 | -0.53 | -3.32 | -0.58 | 251  | 1.68  | 0.87  | -0.48 | -0.19 | 0.81  | -0.66 |
| 182   | 257  | 0.15  | -0.21 | 0.91  | 0.05  | -0.56 | -0.05 | 258  | 0.22  | 0.13  | -0.02 | 0.07  | 0.50  | 0.20  |
|       | 251  | 0.75  | -0.09 | 0.36  | -0.10 | 0.83  | 0.04  | 252  | 0.82  | 0.25  | -0.58 | -0.04 | -0.62 | 0.29  |
| 183   | 258  | 0.30  | 0.05  | -0.08 | 0.12  | 0.51  | 0.18  | 259  | 0.13  | -0.81 | -0.23 | -0.27 | -1.67 | 0.19  |
|       | 252  | -0.07 | -0.03 | 0.82  | -0.02 | -0.61 | 0.11  | 5    | -0.24 | -0.88 | 0.68  | 0.35  | 1.89  | 0.11  |
| 184   | 11   | -0.27 | -1.03 | 0.03  | -0.85 | -4.23 | 0.12  | 260  | 0.02  | 0.45  | -0.19 | 0.19  | 0.96  | 0.06  |
|       | 253  | -0.12 | -1.00 | -0.16 | 0.57  | 2.60  | -0.30 | 254  | 0.18  | 0.48  | -0.38 | -0.11 | -0.67 | -0.35 |
| 185   | 260  | 0.08  | -0.19 | -0.74 | 0.19  | 0.96  | -0.17 | 261  | 0.13  | 0.08  | -0.18 | -0.02 | -0.11 | -0.27 |
|       | 254  | 0.16  | -0.17 | -0.43 | -0.17 | -0.68 | -0.06 | 255  | 0.22  | 0.10  | 0.12  | 0.14  | -0.11 | -0.16 |
| 186   | 261  | 0.07  | 0.82  | -0.79 | -0.02 | -0.11 | -0.44 | 165  | -0.61 | -2.54 | -1.49 | -0.11 | -0.55 | -0.20 |
|       | 255  | 0.96  | 1.00  | 0.39  | 0.16  | -0.11 | -0.22 | 256  | 0.28  | -2.36 | -0.31 | -0.67 | -0.86 | 0.03  |
| 187   | 165  | -0.61 | -2.54 | 1.49  | -0.11 | -0.55 | 0.20  | 262  | 0.07  | 0.82  | 0.78  | -0.02 | -0.12 | 0.44  |
|       | 256  | 0.28  | -2.36 | 0.31  | -0.67 | -0.86 | -0.02 | 257  | 0.96  | 1.00  | -0.39 | 0.17  | -0.10 | 0.22  |
| 188   | 262  | 0.14  | 0.08  | 0.17  | -0.02 | -0.12 | 0.28  | 263  | 0.08  | -0.19 | 0.72  | 0.20  | 1.02  | 0.18  |

**TENS. Var.Neve h<=1000: SHELL**

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 257  | 0.22              | 0.10              | -0.13             | 0.14              | -0.10             | 0.16              | 258  | 0.16              | -0.17             | 0.42              | -0.18             | -0.72             | 0.06              |
| 189   | 263  | 0.02              | 0.49              | 0.20              | 0.20              | 1.02              | -0.07             | 12   | -0.29             | -1.08             | -0.03             | -0.90             | -4.51             | -0.13             |
|       | 258  | 0.17              | 0.52              | 0.37              | -0.13             | -0.71             | 0.37              | 259  | -0.14             | -1.05             | 0.13              | 0.62              | 2.77              | 0.31              |
| 190   | 264  | -0.22             | -0.54             | 0.70              | 0.41              | 0.90              | -0.59             | 265  | -0.13             | -0.08             | 0.74              | 0.46              | 0.87              | -0.27             |
|       | 216  | -0.39             | -0.58             | 0.07              | 0.71              | 3.95              | 0.07              | 3    | -0.30             | -0.11             | 0.11              | 0.39              | 1.61              | 0.39              |
| 191   | 11   | 0.03              | -0.85             | 1.01              | -0.24             | -1.18             | -0.05             | 266  | 0.10              | -0.49             | 1.62              | -0.32             | -1.60             | 0.10              |
|       | 253  | 0.17              | -0.83             | -0.32             | -0.49             | 0.68              | 0.08              | 264  | 0.24              | -0.47             | 0.30              | 0.55              | 0.85              | 0.23              |
| 192   | 266  | 0.02              | -0.22             | 0.60              | -0.32             | -1.60             | 0.47              | 13   | 0.09              | 0.13              | 0.75              | 0.33              | 1.64              | 0.16              |
|       | 264  | -0.08             | -0.23             | 0.24              | 0.39              | 0.82              | -0.33             | 265  | -0.01             | 0.11              | 0.39              | 0.38              | 0.51              | -0.64             |
| 193   | 268  | -0.25             | -0.14             | 0.13              | 0.12              | -0.12             | 0.10              | 269  | -0.24             | -0.10             | 0.23              | -0.04             | 0.00              | 0.10              |
|       | 241  | -0.65             | -0.22             | -0.03             | -0.13             | -0.97             | 0.25              | 240  | -0.64             | -0.18             | 0.06              | -0.27             | -1.63             | 0.24              |
| 194   | 269  | -0.39             | -0.13             | 0.04              | -0.04             | 0.00              | 0.14              | 270  | -0.38             | -0.07             | 0.13              | 0.02              | -0.16             | 0.05              |
|       | 240  | -0.89             | -0.23             | -0.07             | -0.20             | -1.62             | 0.13              | 239  | -0.88             | -0.17             | 0.02              | -0.24             | -1.41             | 0.04              |
| 195   | 270  | -0.45             | -0.09             | -0.01             | -0.02             | -0.17             | 0.07              | 271  | -0.45             | -0.07             | 0.05              | 0.04              | -0.15             | 0.01              |
|       | 239  | -0.97             | -0.19             | -0.05             | -0.15             | -1.39             | 0.03              | 7    | -0.97             | -0.17             | 0.01              | -0.20             | -1.28             | -0.03             |
| 196   | 14   | 0.13              | -0.02             | 0.40              | 0.48              | 2.38              | 0.30              | 65   | 0.10              | -0.19             | 0.80              | 0.24              | 1.18              | 0.21              |
|       | 267  | 0.11              | -0.02             | -0.10             | -0.28             | -1.52             | 0.13              | 268  | 0.08              | -0.19             | 0.30              | 0.18              | 0.30              | 0.04              |
| 197   | 65   | 0.02              | 0.03              | 0.19              | 0.24              | 1.18              | 0.05              | 64   | 0.00              | -0.09             | 0.26              | 0.24              | 1.19              | -0.02             |
|       | 268  | -0.21             | -0.02             | 0.20              | 0.21              | 0.31              | 0.15              | 269  | -0.24             | -0.14             | 0.27              | -0.06             | -0.11             | 0.09              |
| 198   | 64   | -0.02             | -0.06             | 0.08              | 0.24              | 1.19              | 0.04              | 63   | -0.01             | -0.05             | 0.12              | 0.22              | 1.08              | 0.03              |
|       | 269  | -0.40             | -0.14             | 0.09              | -0.06             | -0.11             | 0.09              | 270  | -0.40             | -0.12             | 0.13              | 0.02              | -0.14             | 0.08              |
| 199   | 63   | -0.01             | -0.05             | -0.01             | 0.22              | 1.08              | 0.05              | 15   | -0.01             | -0.04             | 0.05              | 0.21              | 1.04              | 0.00              |
|       | 270  | -0.47             | -0.15             | -0.01             | -0.01             | -0.14             | 0.06              | 271  | -0.47             | -0.14             | 0.05              | 0.04              | -0.15             | 0.01              |
| 200   | 272  | -0.37             | -0.07             | -0.14             | 0.01              | -0.16             | -0.05             | 273  | -0.38             | -0.13             | -0.05             | -0.03             | 0.00              | -0.14             |
|       | 248  | -0.87             | -0.17             | -0.03             | -0.19             | -1.38             | -0.04             | 247  | -0.88             | -0.23             | 0.06              | -0.24             | -1.59             | -0.13             |
| 201   | 273  | -0.23             | -0.10             | -0.23             | -0.05             | 0.00              | -0.10             | 274  | -0.24             | -0.14             | -0.14             | 0.13              | -0.11             | -0.11             |
|       | 247  | -0.63             | -0.17             | -0.07             | -0.23             | -1.59             | -0.24             | 246  | -0.63             | -0.22             | 0.02              | -0.16             | -0.95             | -0.25             |
| 202   | 274  | -0.02             | -0.13             | -0.24             | 0.09              | -0.12             | -0.01             | 275  | 0.03              | 0.12              | -0.27             | 0.15              | 0.57              | 0.10              |
|       | 246  | -0.25             | -0.17             | -0.05             | -0.07             | -0.93             | -0.33             | 9    | -0.19             | 0.08              | -0.08             | -0.27             | -0.59             | -0.22             |
| 203   | 15   | -0.01             | -0.04             | -0.06             | 0.21              | 1.04              | 0.00              | 44   | -0.01             | -0.05             | -0.01             | 0.21              | 1.06              | -0.05             |
|       | 271  | -0.47             | -0.14             | -0.06             | 0.03              | -0.15             | -0.01             | 272  | -0.47             | -0.15             | -0.01             | 0.00              | -0.14             | -0.06             |
| 204   | 44   | -0.01             | -0.05             | -0.13             | 0.21              | 1.06              | -0.04             | 43   | -0.02             | -0.06             | -0.09             | 0.23              | 1.17              | -0.04             |
|       | 272  | -0.39             | -0.12             | -0.15             | 0.02              | -0.14             | -0.08             | 273  | -0.40             | -0.14             | -0.10             | -0.06             | -0.12             | -0.08             |
| 205   | 43   | 0.00              | -0.09             | -0.27             | 0.23              | 1.17              | 0.01              | 42   | 0.02              | 0.03              | -0.19             | 0.21              | 1.07              | -0.05             |



TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 273  | -0.23 | -0.14 | -0.28 | -0.07 | -0.12 | -0.08 | 274  | -0.21 | -0.02 | -0.20 | 0.22  | 0.35  | -0.14 |
| 206   | 42   | 0.09  | -0.18 | -0.80 | 0.21  | 1.07  | -0.17 | 16   | 0.13  | -0.02 | -0.39 | 0.54  | 2.72  | -0.26 |
|       | 274  | 0.08  | -0.19 | -0.30 | 0.18  | 0.35  | -0.07 | 275  | 0.11  | -0.03 | 0.10  | -0.30 | -1.66 | -0.16 |
| 207   | 276  | 0.01  | -0.16 | 0.24  | 0.04  | 0.36  | -0.08 | 275  | 0.06  | 0.11  | 0.33  | -0.25 | 0.66  | -0.26 |
|       | 242  | -0.05 | -0.17 | -0.08 | 0.39  | 0.92  | 0.35  | 9    | 0.00  | 0.10  | 0.01  | -0.22 | -0.47 | 0.17  |
| 208   | 13   | -0.05 | 0.33  | 0.21  | 0.33  | 1.64  | -0.72 | 277  | -0.14 | -0.09 | -0.01 | -0.16 | -0.82 | -0.82 |
|       | 265  | -0.18 | 0.30  | 0.11  | 0.51  | 0.54  | 0.16  | 276  | -0.27 | -0.12 | -0.10 | 0.08  | 0.98  | 0.06  |
| 209   | 277  | -0.18 | -0.06 | 0.58  | -0.16 | -0.82 | -0.22 | 16   | -0.21 | -0.21 | 0.51  | 0.42  | 2.12  | -0.07 |
|       | 276  | -0.23 | -0.07 | -0.25 | 0.17  | 1.00  | -0.52 | 275  | -0.26 | -0.22 | -0.32 | -0.65 | -1.37 | -0.37 |
| 210   | 278  | -0.22 | -0.56 | 0.74  | -0.43 | -0.92 | 0.60  | 279  | -0.13 | -0.08 | 0.79  | -0.45 | -0.87 | 0.27  |
|       | 230  | -0.40 | -0.59 | 0.07  | -0.68 | -4.02 | -0.07 | 6    | -0.30 | -0.12 | 0.12  | -0.44 | -1.66 | -0.40 |
| 211   | 12   | 0.03  | -0.91 | 1.07  | 0.27  | 1.34  | 0.03  | 280  | 0.11  | -0.52 | 1.71  | 0.32  | 1.61  | -0.12 |
|       | 259  | 0.18  | -0.88 | -0.36 | 0.49  | -0.75 | -0.08 | 278  | 0.26  | -0.49 | 0.29  | -0.56 | -0.83 | -0.23 |
| 212   | 280  | 0.02  | -0.22 | 0.63  | 0.32  | 1.61  | -0.47 | 17   | 0.09  | 0.13  | 0.79  | -0.32 | -1.60 | -0.15 |
|       | 278  | -0.07 | -0.24 | 0.24  | -0.41 | -0.80 | 0.33  | 279  | 0.00  | 0.11  | 0.40  | -0.38 | -0.53 | 0.65  |
| 213   | 281  | 0.00  | -0.15 | 0.25  | -0.05 | -0.36 | 0.08  | 267  | 0.05  | 0.11  | 0.33  | 0.25  | -0.67 | 0.27  |
|       | 238  | -0.05 | -0.16 | -0.07 | -0.37 | -0.93 | -0.36 | 8    | 0.00  | 0.10  | 0.01  | 0.19  | 0.47  | -0.18 |
| 214   | 17   | -0.05 | 0.33  | 0.20  | -0.32 | -1.60 | 0.71  | 282  | -0.14 | -0.10 | 0.01  | 0.16  | 0.80  | 0.81  |
|       | 279  | -0.16 | 0.31  | 0.09  | -0.52 | -0.56 | -0.15 | 281  | -0.25 | -0.12 | -0.10 | -0.08 | -0.99 | -0.05 |
| 215   | 282  | -0.13 | -0.11 | 0.51  | 0.16  | 0.80  | 0.23  | 14   | -0.13 | -0.14 | 0.56  | -0.43 | -2.14 | 0.08  |
|       | 281  | -0.19 | -0.12 | -0.27 | -0.18 | -1.01 | 0.52  | 267  | -0.19 | -0.15 | -0.22 | 0.66  | 1.38  | 0.37  |
| 216   | 287  | 0.00  | 0.00  | 0.00  | -1.10 | -1.48 | 1.13  | 288  | 0.00  | 0.00  | 0.00  | -1.78 | -2.46 | 0.80  |
|       | 283  | 0.00  | 0.00  | 0.00  | 0.34  | 2.05  | 0.60  | 284  | 0.00  | 0.00  | 0.00  | 0.28  | 3.52  | 0.26  |
| 217   | 288  | 0.00  | 0.00  | 0.00  | -1.64 | -2.44 | 0.70  | 289  | 0.00  | 0.00  | 0.00  | -1.24 | -2.66 | 0.46  |
|       | 284  | 0.00  | 0.00  | 0.00  | -0.13 | 3.44  | 0.39  | 285  | 0.00  | 0.00  | 0.00  | 0.98  | 4.34  | 0.15  |
| 218   | 289  | 0.00  | 0.00  | 0.00  | -0.86 | -2.59 | 0.54  | 25   | 0.00  | 0.00  | 0.00  | -1.14 | -3.53 | 0.18  |
|       | 285  | 0.00  | 0.00  | 0.00  | -0.30 | 4.08  | 0.26  | 19   | 0.00  | 0.00  | 0.00  | 3.29  | 6.03  | -0.11 |
| 219   | 290  | 0.00  | 0.00  | 0.00  | 5.00  | 1.05  | -0.47 | 291  | 0.00  | 0.00  | 0.00  | -0.75 | -0.30 | -0.32 |
|       | 286  | 0.00  | 0.00  | 0.00  | 4.45  | 0.64  | 0.59  | 287  | 0.00  | 0.00  | 0.00  | -1.23 | -1.57 | 0.74  |
| 220   | 291  | 0.00  | 0.00  | 0.00  | -0.60 | -0.27 | -0.15 | 292  | 0.00  | 0.00  | 0.00  | -1.61 | -0.69 | -0.13 |
|       | 287  | 0.00  | 0.00  | 0.00  | -1.11 | -1.54 | 0.57  | 288  | 0.00  | 0.00  | 0.00  | -1.75 | -2.32 | 0.59  |
| 221   | 292  | 0.00  | 0.00  | 0.00  | -1.50 | -0.67 | -0.03 | 293  | 0.00  | 0.00  | 0.00  | -0.96 | -0.73 | -0.09 |
|       | 288  | 0.00  | 0.00  | 0.00  | -1.62 | -2.29 | 0.44  | 289  | 0.00  | 0.00  | 0.00  | -1.23 | -2.60 | 0.38  |
| 222   | 293  | 0.00  | 0.00  | 0.00  | -1.03 | -0.74 | 0.11  | 29   | 0.00  | 0.00  | 0.00  | -0.47 | -0.75 | 0.02  |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 289  | 0.00              | 0.00              | 0.00              | -0.85             | -2.53             | 0.14              | 25   | 0.00              | 0.00              | 0.00              | -0.92             | -2.46             | 0.05              |
| 223   | 294  | 0.00              | 0.00              | 0.00              | 3.84              | 1.87              | -0.69             | 295  | 0.00              | 0.00              | 0.00              | -1.22             | -1.62             | -1.01             |
|       | 290  | 0.00              | 0.00              | 0.00              | 4.74              | -0.26             | 0.39              | 291  | 0.00              | 0.00              | 0.00              | -0.73             | -0.18             | 0.07              |
| 224   | 295  | 0.00              | 0.00              | 0.00              | -0.88             | -1.55             | -0.77             | 296  | 0.00              | 0.00              | 0.00              | -1.50             | -2.08             | -0.69             |
|       | 291  | 0.00              | 0.00              | 0.00              | -0.58             | -0.15             | -0.12             | 292  | 0.00              | 0.00              | 0.00              | -1.62             | -0.73             | -0.04             |
| 225   | 296  | 0.00              | 0.00              | 0.00              | -1.30             | -2.04             | -0.61             | 297  | 0.00              | 0.00              | 0.00              | -1.09             | -2.43             | -0.46             |
|       | 292  | 0.00              | 0.00              | 0.00              | -1.51             | -0.71             | -0.07             | 293  | 0.00              | 0.00              | 0.00              | -0.97             | -0.82             | 0.07              |
| 226   | 297  | 0.00              | 0.00              | 0.00              | -0.68             | -2.35             | -0.38             | 33   | 0.00              | 0.00              | 0.00              | -0.77             | -2.82             | -0.22             |
|       | 293  | 0.00              | 0.00              | 0.00              | -1.05             | -0.83             | 0.01              | 29   | 0.00              | 0.00              | 0.00              | -0.47             | -0.74             | 0.18              |
| 227   | 20   | 0.00              | 0.00              | 0.00              | -0.29             | 3.47              | 0.00              | 298  | 0.00              | 0.00              | 0.00              | 1.11              | 3.06              | -0.64             |
|       | 294  | 0.00              | 0.00              | 0.00              | 3.03              | -2.21             | -0.72             | 295  | 0.00              | 0.00              | 0.00              | -1.19             | -1.50             | -1.36             |
| 228   | 298  | 0.00              | 0.00              | 0.00              | 0.26              | 2.89              | -0.50             | 299  | 0.00              | 0.00              | 0.00              | 0.69              | 4.36              | -0.26             |
|       | 295  | 0.00              | 0.00              | 0.00              | -0.85             | -1.43             | -1.13             | 296  | 0.00              | 0.00              | 0.00              | -1.52             | -2.19             | -0.89             |
| 229   | 299  | 0.00              | 0.00              | 0.00              | -0.08             | 4.20              | -0.38             | 300  | 0.00              | 0.00              | 0.00              | 1.36              | 5.26              | -0.20             |
|       | 296  | 0.00              | 0.00              | 0.00              | -1.32             | -2.15             | -0.80             | 297  | 0.00              | 0.00              | 0.00              | -1.07             | -2.37             | -0.62             |
| 230   | 300  | 0.00              | 0.00              | 0.00              | -0.03             | 4.98              | -0.13             | 21   | 0.00              | 0.00              | 0.00              | 3.39              | 7.27              | 0.15              |
|       | 297  | 0.00              | 0.00              | 0.00              | -0.67             | -2.29             | -0.83             | 33   | 0.00              | 0.00              | 0.00              | -0.83             | -3.08             | -0.55             |
| 231   | 301  | 0.09              | -0.14             | 0.65              | 0.02              | 0.10              | -0.08             | 302  | 0.04              | -0.37             | 0.44              | 0.05              | 0.27              | -0.08             |
|       | 283  | 0.09              | -0.14             | 0.32              | -0.21             | -1.03             | 0.07              | 284  | 0.04              | -0.37             | 0.11              | -0.36             | -1.81             | 0.07              |
| 232   | 302  | 0.08              | -0.59             | -0.98             | 0.05              | 0.27              | -0.21             | 303  | 0.17              | -0.14             | -1.15             | -0.28             | -1.41             | -0.21             |
|       | 284  | 0.08              | -0.59             | -0.18             | -0.36             | -1.81             | 0.20              | 285  | 0.17              | -0.14             | -0.35             | -0.36             | -1.82             | 0.20              |
| 233   | 303  | -0.02             | 0.98              | -2.89             | -0.28             | -1.41             | 0.64              | 163  | -0.89             | -3.34             | -2.45             | 1.34              | 6.72              | 0.64              |
|       | 285  | -0.02             | 0.98              | -1.05             | -0.36             | -1.82             | -0.65             | 19   | -0.89             | -3.34             | -0.61             | -0.91             | -4.54             | -0.65             |
| 234   | 304  | 0.19              | -0.05             | 1.13              | -0.29             | -1.44             | 0.19              | 305  | 0.08              | -0.60             | 1.02              | 0.09              | 0.47              | 0.19              |
|       | 22   | 0.19              | -0.05             | 0.37              | -0.16             | -0.78             | -0.20             | 23   | 0.08              | -0.60             | 0.27              | -0.23             | -1.13             | -0.20             |
| 235   | 305  | 0.06              | -0.52             | -0.43             | 0.09              | 0.47              | 0.03              | 306  | 0.15              | -0.08             | -0.72             | -0.16             | -0.81             | 0.03              |
|       | 23   | 0.06              | -0.52             | 0.02              | -0.23             | -1.13             | -0.03             | 24   | 0.15              | -0.08             | -0.27             | 0.08              | 0.39              | -0.03             |
| 236   | 306  | 0.01              | 0.57              | -2.12             | -0.16             | -0.81             | 0.29              | 164  | -0.69             | -2.92             | -2.44             | 0.68              | 3.41              | 0.29              |
|       | 24   | 0.01              | 0.57              | -0.42             | 0.08              | 0.39              | -0.30             | 11   | -0.69             | -2.92             | -0.74             | -0.30             | -1.48             | -0.30             |
| 237   | 310  | 0.11              | -0.17             | -0.68             | -0.18             | -0.89             | 0.06              | 311  | 0.18              | 0.16              | -0.66             | 0.11              | 0.57              | 0.06              |
|       | 307  | 0.11              | -0.17             | -1.43             | 0.09              | 0.47              | -0.07             | 308  | 0.18              | 0.16              | -1.42             | -0.06             | -0.28             | -0.07             |
| 238   | 311  | 0.19              | -0.37             | -1.74             | 0.11              | 0.57              | -0.14             | 312  | 0.29              | 0.10              | -1.73             | -0.34             | -1.69             | -0.14             |
|       | 308  | 0.19              | -0.37             | -0.37             | -0.06             | -0.28             | 0.13              | 309  | 0.29              | 0.10              | -0.35             | 0.11              | 0.54              | 0.13              |
| 239   | 312  | 0.22              | 2.47              | -2.49             | -0.34             | -1.69             | 0.66              | 166  | -1.30             | -5.12             | -2.48             | 1.44              | 7.21              | 0.66              |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 309  | 0.22  | 2.47  | 0.38  | 0.11  | 0.54  | -0.67 | 165  | -1.30 | -5.12 | 0.40  | -0.28 | -1.38 | -0.67 |
| 240   | 316  | 0.29  | 0.10  | 1.78  | -0.34 | -1.70 | 0.13  | 317  | 0.19  | -0.36 | 1.80  | 0.12  | 0.59  | 0.13  |
|       | 313  | 0.29  | 0.10  | 0.40  | 0.11  | 0.54  | -0.14 | 314  | 0.19  | -0.36 | 0.41  | -0.06 | -0.29 | -0.14 |
| 241   | 317  | 0.18  | 0.13  | 0.69  | 0.12  | 0.59  | -0.07 | 318  | 0.13  | -0.15 | 0.71  | -0.19 | -0.94 | -0.07 |
|       | 314  | 0.18  | 0.13  | 1.49  | -0.06 | -0.29 | 0.06  | 315  | 0.13  | -0.15 | 1.50  | 0.10  | 0.51  | 0.06  |
| 242   | 318  | 0.09  | 1.29  | 0.40  | -0.19 | -0.94 | 0.23  | 167  | -0.68 | -2.56 | 0.41  | 0.73  | 3.64  | 0.23  |
|       | 315  | 0.09  | 1.29  | 1.79  | 0.10  | 0.51  | -0.24 | 12   | -0.68 | -2.56 | 1.80  | -0.33 | -1.64 | -0.24 |
| 243   | 319  | 0.13  | -0.22 | 0.70  | -0.19 | -0.93 | -0.04 | 320  | 0.08  | -0.47 | 0.30  | 0.12  | 0.58  | -0.04 |
|       | 82   | 0.13  | -0.22 | 0.14  | 0.08  | 0.41  | 0.03  | 83   | 0.08  | -0.47 | -0.26 | -0.28 | -1.41 | 0.03  |
| 244   | 320  | 0.09  | -0.64 | -1.52 | 0.12  | 0.58  | -0.20 | 321  | 0.19  | -0.15 | -1.65 | -0.34 | -1.72 | -0.20 |
|       | 83   | 0.09  | -0.64 | -0.48 | -0.28 | -1.41 | 0.19  | 84   | 0.19  | -0.15 | -0.62 | -0.17 | -0.84 | 0.19  |
| 245   | 321  | 0.04  | 1.20  | -3.73 | -0.34 | -1.72 | 0.56  | 168  | -0.97 | -3.85 | -3.17 | 1.51  | 7.56  | 0.56  |
|       | 84   | 0.04  | 1.20  | -1.39 | -0.17 | -0.84 | -0.57 | 85   | -0.97 | -3.85 | -0.82 | -1.00 | -5.01 | -0.57 |
| 246   | 322  | 0.14  | -0.34 | 1.22  | -0.35 | -1.76 | 0.18  | 323  | 0.11  | -0.49 | 1.07  | 0.15  | 0.73  | 0.18  |
|       | 102  | 0.14  | -0.34 | 0.24  | -0.44 | -2.20 | -0.19 | 103  | 0.11  | -0.49 | 0.08  | -0.59 | -2.97 | -0.19 |
| 247   | 323  | 0.11  | -0.48 | -1.05 | 0.15  | 0.73  | -0.19 | 324  | 0.14  | -0.34 | -1.24 | -0.34 | -1.70 | -0.19 |
|       | 103  | 0.11  | -0.48 | -0.13 | -0.59 | -2.97 | 0.18  | 104  | 0.14  | -0.34 | -0.32 | -0.45 | -2.26 | 0.18  |
| 248   | 324  | 0.01  | 1.19  | -3.06 | -0.34 | -1.70 | 0.73  | 169  | -0.94 | -3.56 | -2.80 | 1.47  | 7.34  | 0.73  |
|       | 104  | 0.01  | 1.19  | -1.21 | -0.45 | -2.26 | -0.74 | 105  | -0.94 | -3.56 | -0.94 | -0.86 | -4.32 | -0.74 |
| 249   | 325  | 0.19  | -0.17 | 1.48  | -0.33 | -1.63 | 0.17  | 326  | 0.11  | -0.58 | 1.39  | 0.13  | 0.67  | 0.17  |
|       | 122  | 0.19  | -0.17 | 0.57  | -0.45 | -2.25 | -0.18 | 123  | 0.11  | -0.58 | 0.48  | -0.60 | -3.01 | -0.18 |
| 250   | 326  | 0.10  | -0.51 | -0.54 | 0.13  | 0.67  | -0.17 | 327  | 0.16  | -0.23 | -0.72 | -0.32 | -1.58 | -0.17 |
|       | 123  | 0.10  | -0.51 | 0.25  | -0.60 | -3.01 | 0.16  | 124  | 0.16  | -0.23 | 0.07  | -0.44 | -2.22 | 0.16  |
| 251   | 327  | -0.01 | 1.03  | -2.40 | -0.32 | -1.58 | 0.76  | 170  | -0.91 | -3.45 | -2.28 | 1.42  | 7.08  | 0.76  |
|       | 124  | -0.01 | 1.03  | -0.61 | -0.44 | -2.22 | -0.77 | 125  | -0.91 | -3.45 | -0.48 | -0.84 | -4.21 | -0.77 |
| 252   | 328  | 0.15  | -0.20 | 1.79  | -0.31 | -1.53 | 0.20  | 329  | 0.07  | -0.61 | 1.57  | 0.06  | 0.31  | 0.20  |
|       | 142  | 0.15  | -0.20 | 0.84  | -0.44 | -2.18 | -0.21 | 143  | 0.07  | -0.61 | 0.61  | -0.43 | -2.15 | -0.21 |
| 253   | 329  | 0.05  | -0.37 | -0.04 | 0.06  | 0.31  | 0.05  | 330  | 0.08  | -0.18 | -0.34 | 0.01  | 0.04  | 0.05  |
|       | 143  | 0.05  | -0.37 | 0.31  | -0.43 | -2.15 | -0.06 | 144  | 0.08  | -0.18 | 0.00  | -0.28 | -1.39 | -0.06 |
| 254   | 330  | 0.07  | -0.01 | -2.02 | 0.01  | 0.04  | 0.36  | 171  | -0.15 | -1.10 | -1.41 | -0.04 | -0.21 | 0.36  |
|       | 144  | 0.07  | -0.01 | -0.53 | -0.28 | -1.39 | -0.37 | 145  | -0.15 | -1.10 | 0.08  | 0.45  | 2.25  | -0.37 |
| 255   | 331  | 0.08  | -0.06 | -0.77 | -0.03 | -0.16 | 0.06  | 332  | 0.03  | -0.33 | -1.06 | -0.06 | -0.29 | 0.06  |
|       | 298  | 0.08  | -0.06 | -0.90 | 0.43  | 2.15  | -0.07 | 299  | 0.03  | -0.33 | -1.20 | 0.57  | 2.84  | -0.07 |
| 256   | 332  | 0.08  | -0.59 | -2.31 | -0.06 | -0.29 | 0.21  | 333  | 0.19  | -0.04 | -2.36 | 0.32  | 1.58  | 0.21  |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 299  | 0.08              | -0.59             | -1.43             | 0.57              | 2.84              | -0.22             | 300  | 0.19              | -0.04             | -1.48             | 0.56              | 2.78              | -0.22             |
| 257   | 333  | 0.02              | 0.92              | -4.31             | 0.32              | 1.58              | -0.81             | 173  | -0.84             | -3.38             | -3.71             | -1.52             | -7.62             | -0.81             |
|       | 300  | 0.02              | 0.92              | -2.12             | 0.56              | 2.78              | 0.80              | 21   | -0.84             | -3.38             | -1.52             | 1.05              | 5.23              | 0.80              |
| 258   | 334  | 0.16              | -0.14             | 0.04              | 0.33              | 1.63              | -0.16             | 335  | 0.08              | -0.51             | -0.14             | -0.14             | -0.70             | -0.16             |
|       | 37   | 0.16              | -0.14             | -0.56             | 0.60              | 3.01              | 0.15              | 38   | 0.08              | -0.51             | -0.74             | 0.83              | 4.15              | 0.15              |
| 259   | 335  | 0.11              | -0.64             | -1.79             | -0.14             | -0.70             | 0.17              | 336  | 0.24              | 0.01              | -1.80             | 0.36              | 1.80              | 0.17              |
|       | 38   | 0.11              | -0.64             | -0.98             | 0.83              | 4.15              | -0.18             | 39   | 0.24              | 0.01              | -0.99             | 0.61              | 3.07              | -0.18             |
| 260   | 336  | 0.05              | 0.88              | -4.06             | 0.36              | 1.80              | -0.82             | 174  | -0.91             | -3.94             | -3.68             | -1.67             | -8.34             | -0.82             |
|       | 39   | 0.05              | 0.88              | -1.42             | 0.61              | 3.07              | 0.81              | 41   | -0.91             | -3.94             | -1.03             | 1.36              | 6.80              | 0.81              |
| 261   | 337  | 0.05              | -0.56             | 0.79              | 0.40              | 1.99              | -0.21             | 338  | 0.10              | -0.30             | 0.64              | -0.18             | -0.90             | -0.21             |
|       | 59   | 0.05              | -0.56             | -0.10             | 1.11              | 5.54              | 0.20              | 60   | 0.10              | -0.30             | -0.26             | 1.26              | 6.31              | 0.20              |
| 262   | 338  | 0.11              | -0.49             | -1.65             | -0.18             | -0.90             | 0.23              | 339  | 0.12              | -0.40             | -1.75             | 0.43              | 2.15              | 0.23              |
|       | 60   | 0.11              | -0.49             | -0.61             | 1.26              | 6.31              | -0.24             | 61   | 0.12              | -0.40             | -0.70             | 1.15              | 5.73              | -0.24             |
| 263   | 339  | 0.07              | 1.36              | -3.84             | 0.43              | 2.15              | -0.77             | 175  | -0.95             | -3.76             | -3.49             | -1.80             | -8.98             | -0.77             |
|       | 61   | 0.07              | 1.36              | -1.78             | 1.15              | 5.73              | 0.76              | 62   | -0.95             | -3.76             | -1.42             | 1.77              | 8.83              | 0.76              |
| 264   | 340  | 0.11              | -0.40             | 1.38              | 0.43              | 2.15              | -0.23             | 341  | 0.10              | -0.49             | 1.17              | -0.18             | -0.90             | -0.23             |
|       | 78   | 0.11              | -0.40             | 0.31              | 1.16              | 5.80              | 0.22              | 79   | 0.10              | -0.49             | 0.10              | 1.30              | 6.50              | 0.22              |
| 265   | 341  | 0.09              | -0.39             | -1.05             | -0.18             | -0.90             | 0.21              | 342  | 0.08              | -0.45             | -1.34             | 0.40              | 2.02              | 0.21              |
|       | 79   | 0.09              | -0.39             | -0.19             | 1.30              | 6.50              | -0.22             | 80   | 0.08              | -0.45             | -0.48             | 1.16              | 5.81              | -0.22             |
| 266   | 342  | 0.04              | 1.08              | -3.06             | 0.40              | 2.02              | -0.86             | 176  | -0.82             | -3.22             | -3.14             | -1.69             | -8.46             | -0.86             |
|       | 80   | 0.04              | 1.08              | -1.42             | 1.16              | 5.81              | 0.85              | 81   | -0.82             | -3.22             | -1.49             | 1.46              | 7.30              | 0.85              |
| 267   | 343  | 0.09              | -0.32             | 0.93              | 0.37              | 1.84              | -0.44             | 344  | 0.08              | -0.39             | 1.30              | -0.15             | -0.74             | -0.44             |
|       | 98   | 0.09              | -0.32             | 0.06              | 1.01              | 5.05              | 0.43              | 99   | 0.08              | -0.39             | 0.42              | 0.74              | 3.72              | 0.43              |
| 268   | 344  | 0.10              | -0.63             | -0.94             | -0.15             | -0.74             | 0.14              | 345  | 0.19              | -0.20             | -0.99             | 0.38              | 1.88              | 0.14              |
|       | 99   | 0.10              | -0.63             | -0.20             | 0.74              | 3.72              | -0.15             | 100  | 0.19              | -0.20             | -0.25             | 0.48              | 2.41              | -0.15             |
| 269   | 345  | 0.03              | 1.15              | -3.02             | 0.38              | 1.88              | -0.71             | 177  | -0.94             | -3.72             | -2.74             | -1.64             | -8.18             | -0.71             |
|       | 100  | 0.03              | 1.15              | -0.96             | 0.48              | 2.41              | 0.70              | 101  | -0.94             | -3.72             | -0.69             | 1.22              | 6.10              | 0.70              |
| 270   | 346  | 0.14              | -0.34             | 1.46              | 0.38              | 1.90              | -0.21             | 347  | 0.11              | -0.50             | 1.27              | -0.16             | -0.80             | -0.21             |
|       | 118  | 0.14              | -0.34             | 0.48              | 0.67              | 3.34              | 0.20              | 119  | 0.11              | -0.50             | 0.29              | 0.82              | 4.08              | 0.20              |
| 271   | 347  | 0.10              | -0.48             | -0.82             | -0.16             | -0.80             | 0.18              | 348  | 0.13              | -0.35             | -1.06             | 0.37              | 1.85              | 0.18              |
|       | 119  | 0.10              | -0.48             | 0.07              | 0.82              | 4.08              | -0.19             | 120  | 0.13              | -0.35             | -0.16             | 0.64              | 3.20              | -0.19             |
| 272   | 348  | 0.01              | 1.17              | -2.81             | 0.37              | 1.85              | -0.81             | 178  | -0.93             | -3.50             | -2.62             | -1.60             | -7.98             | -0.81             |
|       | 120  | 0.01              | 1.17              | -1.04             | 0.64              | 3.20              | 0.80              | 121  | -0.93             | -3.50             | -0.85             | 1.09              | 5.43              | 0.80              |
| 273   | 349  | 0.19              | -0.16             | 1.62              | 0.36              | 1.78              | -0.20             | 350  | 0.11              | -0.57             | 1.56              | -0.15             | -0.73             | -0.20             |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 138  | 0.19  | -0.16 | 0.70  | 0.62  | 3.09  | 0.19  | 139  | 0.11  | -0.57 | 0.65  | 0.78  | 3.90  | 0.19  |
| 274   | 350  | 0.10  | -0.49 | -0.34 | -0.15 | -0.73 | 0.17  | 351  | 0.15  | -0.23 | -0.50 | 0.34  | 1.72  | 0.17  |
|       | 139  | 0.10  | -0.49 | 0.42  | 0.78  | 3.90  | -0.18 | 140  | 0.15  | -0.23 | 0.26  | 0.59  | 2.95  | -0.18 |
| 275   | 351  | -0.02 | 1.05  | -2.08 | 0.34  | 1.72  | -0.83 | 179  | -0.91 | -3.40 | -1.98 | -1.53 | -7.67 | -0.83 |
|       | 140  | -0.02 | 1.05  | -0.41 | 0.59  | 2.95  | 0.82  | 141  | -0.91 | -3.40 | -0.31 | 1.02  | 5.08  | 0.82  |
| 276   | 352  | 0.16  | -0.14 | 2.24  | 0.33  | 1.65  | -0.22 | 353  | 0.07  | -0.59 | 2.16  | -0.06 | -0.32 | -0.22 |
|       | 158  | 0.16  | -0.14 | 1.22  | 0.56  | 2.79  | 0.21  | 159  | 0.07  | -0.59 | 1.14  | 0.56  | 2.78  | 0.21  |
| 277   | 353  | 0.05  | -0.33 | 0.63  | -0.06 | -0.32 | -0.05 | 354  | 0.09  | -0.11 | 0.36  | -0.02 | -0.12 | -0.05 |
|       | 159  | 0.05  | -0.33 | 0.88  | 0.56  | 2.78  | 0.04  | 160  | 0.09  | -0.11 | 0.61  | 0.43  | 2.16  | 0.04  |
| 278   | 354  | 0.08  | 0.04  | -1.01 | -0.02 | -0.12 | -0.40 | 180  | -0.18 | -1.28 | -0.94 | 0.10  | 0.51  | -0.40 |
|       | 160  | 0.08  | 0.04  | 0.43  | 0.43  | 2.16  | 0.40  | 161  | -0.18 | -1.28 | 0.50  | -0.43 | -2.17 | 0.40  |
| 279   | 355  | -0.13 | -0.76 | -0.18 | -0.19 | -0.96 | 0.07  | 356  | 0.03  | 0.02  | -0.53 | 0.09  | 0.43  | 0.07  |
|       | 286  | -0.13 | -0.76 | -0.40 | 0.69  | 3.45  | -0.08 | 290  | 0.03  | 0.02  | -0.75 | 0.67  | 3.37  | -0.08 |
| 280   | 356  | 0.02  | -0.03 | -2.16 | 0.09  | 0.43  | -0.13 | 357  | -0.11 | -0.67 | -2.23 | -0.18 | -0.91 | -0.13 |
|       | 290  | 0.02  | -0.03 | -1.76 | 0.67  | 3.37  | 0.12  | 294  | -0.11 | -0.67 | -1.83 | 0.52  | 2.60  | 0.12  |
| 281   | 357  | 0.07  | 0.90  | -3.67 | -0.18 | -0.91 | 0.00  | 172  | -0.38 | -1.39 | -2.59 | 0.67  | 3.33  | 0.00  |
|       | 294  | 0.07  | 0.90  | -3.73 | 0.52  | 2.60  | -0.01 | 20   | -0.38 | -1.39 | -2.66 | -0.32 | -1.58 | -0.01 |
| 282   | 358  | -0.13 | -0.80 | 0.33  | 0.21  | 1.04  | -0.09 | 359  | 0.03  | 0.03  | -0.01 | -0.09 | -0.47 | -0.09 |
|       | 149  | -0.13 | -0.80 | 0.05  | -0.69 | -3.43 | 0.08  | 153  | 0.03  | 0.03  | -0.29 | -0.67 | -3.35 | 0.08  |
| 283   | 359  | 0.03  | -0.03 | -1.69 | -0.09 | -0.47 | 0.11  | 360  | -0.11 | -0.71 | -1.83 | 0.20  | 1.00  | 0.11  |
|       | 153  | 0.03  | -0.03 | -1.30 | -0.67 | -3.35 | -0.12 | 157  | -0.11 | -0.71 | -1.45 | -0.57 | -2.84 | -0.12 |
| 284   | 360  | 0.08  | 0.95  | -3.23 | 0.20  | 1.00  | -0.01 | 180  | -0.41 | -1.50 | -2.34 | -0.73 | -3.66 | -0.01 |
|       | 157  | 0.08  | 0.95  | -3.32 | -0.57 | -2.84 | 0.00  | 161  | -0.41 | -1.50 | -2.43 | 0.36  | 1.80  | 0.00  |
| 285   | 361  | 0.03  | -0.10 | 3.02  | 0.00  | 0.00  | -0.37 | 181  | -0.01 | -0.27 | 3.60  | -0.02 | -0.12 | -0.37 |
|       | 266  | 0.03  | -0.10 | 2.03  | -0.11 | -0.57 | 0.36  | 13   | -0.01 | -0.27 | 2.61  | -0.89 | -4.45 | 0.36  |
| 286   | 362  | -0.14 | 0.51  | 2.79  | -0.04 | -0.22 | -0.19 | 182  | -0.51 | -1.34 | 1.57  | -0.03 | -0.14 | -0.19 |
|       | 277  | -0.14 | 0.51  | 2.46  | 0.09  | 0.45  | 0.18  | 16   | -0.51 | -1.34 | 1.23  | -0.17 | -0.85 | 0.18  |
| 287   | 363  | 0.03  | -0.11 | 3.23  | 0.01  | 0.06  | 0.35  | 183  | -0.01 | -0.28 | 3.84  | 0.02  | 0.11  | 0.35  |
|       | 280  | 0.03  | -0.11 | 2.20  | 0.12  | 0.61  | -0.36 | 17   | -0.01 | -0.28 | 2.81  | 0.89  | 4.44  | -0.36 |
| 288   | 364  | -0.20 | 0.65  | 3.07  | 0.04  | 0.19  | 0.18  | 184  | -0.64 | -1.56 | 1.80  | 0.05  | 0.26  | 0.18  |
|       | 282  | -0.20 | 0.65  | 2.57  | -0.09 | -0.44 | -0.19 | 14   | -0.64 | -1.56 | 1.31  | 0.14  | 0.71  | -0.19 |
| 289   | 365  | -0.03 | -0.18 | 0.83  | 0.08  | 0.39  | 0.00  | 366  | 0.00  | -0.02 | 0.85  | -0.02 | -0.09 | 0.00  |
|       | 42   | -0.03 | -0.18 | 0.65  | -0.24 | -1.19 | -0.01 | 43   | 0.00  | -0.02 | 0.68  | -0.13 | -0.64 | -0.01 |
| 290   | 366  | 0.00  | -0.06 | 0.56  | -0.02 | -0.09 | 0.02  | 367  | -0.01 | -0.10 | 0.43  | 0.00  | 0.02  | 0.02  |

TENS. Var.Neve h<=1000: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 43   | 0.00  | -0.06 | 0.49  | -0.13 | -0.64 | -0.03 | 44   | -0.01 | -0.10 | 0.36  | -0.09 | -0.45 | -0.03 |
| 291   | 367  | -0.01 | -0.06 | 0.25  | 0.00  | 0.02  | 0.01  | 185  | -0.01 | -0.08 | 0.06  | 0.00  | -0.02 | 0.01  |
|       | 44   | -0.01 | -0.06 | 0.24  | -0.09 | -0.45 | -0.02 | 15   | -0.01 | -0.08 | 0.05  | -0.06 | -0.30 | -0.02 |
| 292   | 368  | -0.01 | -0.10 | -0.46 | 0.00  | 0.02  | -0.04 | 369  | 0.00  | -0.06 | -0.59 | -0.02 | -0.08 | -0.04 |
|       | 63   | -0.01 | -0.10 | -0.38 | -0.10 | -0.51 | 0.03  | 64   | 0.00  | -0.06 | -0.52 | -0.15 | -0.77 | 0.03  |
| 293   | 369  | 0.00  | -0.03 | -0.88 | -0.02 | -0.08 | -0.01 | 370  | -0.03 | -0.18 | -0.87 | 0.07  | 0.35  | -0.01 |
|       | 64   | 0.00  | -0.03 | -0.71 | -0.15 | -0.77 | 0.00  | 65   | -0.03 | -0.18 | -0.69 | -0.26 | -1.29 | 0.00  |
| 294   | 370  | -0.04 | 0.22  | -1.10 | 0.07  | 0.35  | -0.18 | 184  | -0.14 | -0.28 | -0.71 | -0.30 | -1.51 | -0.18 |
|       | 65   | -0.04 | 0.22  | -1.31 | -0.26 | -1.29 | 0.17  | 14   | -0.14 | -0.28 | -0.92 | -0.26 | -1.29 | 0.17  |

CARATT. Var.Coperture: ASTE

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
|     | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
|     | 19   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
|     | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 21   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
|     | 1    | 5.00 | 0.00    | -0.04   | 0.30    | 0.06    | 0.00    | 0.00    | 1    | 2.00 | 0.00    | 0.04    | -0.30   | 0.03    | 0.01    | 0.00    |
|     | 2    | 5.00 | 0.00    | -0.09   | 0.54    | 0.15    | 0.00    | 0.00    | 2    | 2.00 | 0.00    | 0.09    | -0.54   | 0.07    | 0.00    | 0.00    |
|     | 3    | 5.00 | 0.00    | -0.11   | 0.67    | 0.18    | 0.00    | 0.00    | 3    | 2.00 | 0.00    | 0.11    | -0.67   | 0.09    | 0.00    | 0.00    |
|     | 4    | 5.00 | 0.00    | -0.12   | 0.73    | 0.20    | 0.00    | 0.00    | 4    | 2.00 | 0.00    | 0.12    | -0.73   | 0.10    | 0.00    | 0.00    |
|     | 5    | 5.00 | 0.00    | -0.11   | 0.71    | 0.19    | 0.00    | 0.00    | 5    | 2.00 | 0.00    | 0.11    | -0.71   | 0.10    | 0.00    | 0.00    |
|     | 6    | 5.00 | 0.00    | -0.10   | 0.66    | 0.18    | 0.00    | 0.00    | 6    | 2.00 | 0.00    | 0.10    | -0.66   | 0.09    | 0.00    | 0.00    |
|     | 7    | 5.00 | 0.00    | -0.10   | 0.64    | 0.18    | 0.00    | 0.00    | 7    | 2.00 | 0.00    | 0.10    | -0.64   | 0.09    | 0.00    | 0.00    |
|     | 8    | 5.00 | 0.00    | -0.10   | 0.60    | 0.17    | -0.01   | 0.00    | 8    | 2.00 | 0.00    | 0.10    | -0.60   | 0.08    | 0.00    | 0.00    |
|     | 9    | 5.00 | 0.00    | -0.04   | 0.33    | 0.07    | 0.00    | 0.00    | 9    | 2.00 | 0.00    | 0.04    | -0.33   | 0.04    | -0.01   | 0.00    |
|     | 10   | 5.00 | 0.01    | 0.04    | 0.35    | -0.07   | 0.01    | 0.00    | 10   | 2.00 | -0.01   | -0.04   | -0.35   | -0.04   | 0.01    | 0.00    |
|     | 11   | 5.00 | 0.01    | 0.09    | 0.54    | -0.15   | 0.01    | 0.00    | 11   | 2.00 | -0.01   | -0.09   | -0.54   | -0.08   | 0.01    | 0.00    |
|     | 12   | 5.00 | 0.00    | 0.10    | 0.63    | -0.17   | 0.00    | 0.00    | 12   | 2.00 | 0.00    | -0.10   | -0.63   | -0.09   | 0.00    | 0.00    |
|     | 13   | 5.00 | 0.00    | 0.12    | 0.74    | -0.20   | 0.00    | 0.00    | 13   | 2.00 | 0.00    | -0.12   | -0.74   | -0.11   | 0.00    | 0.00    |
|     | 14   | 5.00 | 0.00    | 0.11    | 0.66    | -0.18   | 0.00    | 0.00    | 14   | 2.00 | 0.00    | -0.11   | -0.66   | -0.10   | 0.00    | 0.00    |
|     | 15   | 5.00 | 0.00    | 0.10    | 0.64    | -0.18   | 0.00    | 0.00    | 15   | 2.00 | 0.00    | -0.10   | -0.64   | -0.09   | 0.00    | 0.00    |
|     | 16   | 5.00 | 0.00    | 0.10    | 0.64    | -0.18   | 0.00    | 0.00    | 16   | 2.00 | 0.00    | -0.10   | -0.64   | -0.09   | 0.00    | 0.00    |
|     | 17   | 5.00 | -0.01   | 0.10    | 0.61    | -0.17   | -0.01   | 0.00    | 17   | 2.00 | 0.01    | -0.10   | -0.61   | -0.08   | -0.01   | 0.00    |



**CARATT. Var.Coperture: ASTE**

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 17  | 5.00 | 0.00 | -0.01   | 0.00    | 0.00    | 0.01    | 0.00    | 0.00    | 18   | 5.00 | 0.00    | 0.01    | 0.00    | 0.01    | 0.00    | 0.00    |
| 25  | 6.00 | 0.00 | 0.01    | 0.00    | -0.01   | 0.00    | 0.00    | 0.00    | 26   | 6.00 | 0.00    | -0.01   | 0.00    | -0.01   | 0.00    | 0.00    |
| 26  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 27   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 27  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 28   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 28  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 29   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 29  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 30  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 31  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 32  | 6.00 | 0.00 | -0.01   | 0.00    | 0.01    | 0.00    | 0.00    | 0.00    | 33   | 6.00 | 0.00    | 0.01    | 0.00    | 0.01    | 0.00    | 0.00    |

**TENS. Var.Coperture: SHELL**

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 1     | 216  | -0.06             | -0.05             | -0.18             | 2.26              | -0.76             | 0.17              | 217  | -0.06             | -0.07             | -0.27             | -1.16             | -0.35             | -1.03             |
|       | 1    | 0.35              | 0.03              | -0.03             | 7.81              | 3.06              | 0.40              | 213  | 0.35              | 0.01              | -0.12             | -3.00             | -0.72             | -0.80             |
| 2     | 220  | 0.22              | -0.12             | 0.04              | 1.49              | -4.47             | -1.38             | 227  | 0.24              | -0.04             | 0.03              | -0.36             | -0.48             | -2.80             |
|       | 2    | 0.79              | -0.01             | -0.02             | 10.75             | 9.13              | 0.14              | 224  | 0.81              | 0.07              | -0.04             | -3.56             | -1.58             | -1.27             |
| 3     | 234  | -0.53             | -0.09             | 0.03              | -0.02             | -0.11             | 0.07              | 235  | -0.53             | -0.09             | 0.02              | -0.07             | -0.02             | -0.18             |
|       | 4    | -0.22             | -0.02             | 0.05              | -0.05             | -1.47             | -0.10             | 231  | -0.22             | -0.03             | 0.03              | -0.14             | -0.95             | -0.34             |
| 4     | 242  | -0.17             | -0.17             | -0.20             | 0.53              | -0.45             | -0.49             | 243  | -0.14             | -0.04             | -0.21             | -0.36             | 0.13              | -0.80             |
|       | 3    | -0.10             | -0.16             | -0.30             | 1.60              | 0.73              | -0.47             | 221  | -0.07             | -0.03             | -0.31             | -0.88             | -0.61             | -0.78             |
| 5     | 253  | 0.11              | -0.65             | 0.18              | -0.23             | -1.34             | -0.15             | 254  | 0.25              | 0.03              | 0.06              | 0.10              | 0.41              | -0.16             |
|       | 1    | -0.23             | -0.72             | -0.56             | 0.29              | 1.52              | -0.09             | 249  | -0.09             | -0.04             | -0.69             | -0.02             | -0.50             | -0.10             |
| 6     | 253  | 0.00              | -0.17             | 0.30              | -0.79             | -1.32             | 0.12              | 264  | -0.02             | -0.29             | 0.63              | 0.48              | 0.78              | 0.03              |
|       | 1    | -0.14             | -0.20             | 0.25              | 0.77              | 2.25              | -0.71             | 216  | -0.17             | -0.32             | 0.59              | 0.27              | 3.22              | -0.80             |
| 7     | 267  | 0.03              | 0.11              | 0.22              | 0.12              | 0.48              | -0.08             | 268  | -0.02             | -0.11             | 0.20              | 0.08              | -0.10             | 0.01              |
|       | 8    | -0.17             | 0.07              | 0.07              | -0.21             | -0.50             | 0.19              | 241  | -0.21             | -0.15             | 0.04              | -0.08             | -0.80             | 0.28              |
| 8     | 271  | -0.37             | -0.05             | -0.05             | 0.02              | -0.13             | -0.01             | 272  | -0.38             | -0.07             | 0.00              | -0.01             | -0.14             | -0.06             |
|       | 7    | -0.80             | -0.14             | -0.02             | -0.12             | -1.06             | 0.02              | 248  | -0.81             | -0.16             | 0.03              | -0.17             | -1.15             | -0.03             |
| 9     | 265  | -0.09             | -0.13             | 0.38              | 0.48              | 0.74              | -0.16             | 276  | -0.09             | -0.12             | 0.32              | -0.04             | 0.28              | -0.09             |
|       | 3    | -0.14             | -0.14             | -0.03             | 0.29              | 1.34              | 0.29              | 242  | -0.14             | -0.13             | -0.09             | 0.17              | 0.73              | 0.36              |
| 10    | 259  | 0.00              | -0.19             | 0.32              | 0.81              | 1.39              | -0.13             | 278  | -0.02             | -0.30             | 0.66              | -0.48             | -0.79             | -0.04             |
|       | 5    | -0.14             | -0.22             | 0.26              | -0.75             | -2.30             | 0.72              | 230  | -0.16             | -0.32             | 0.60              | -0.32             | -3.30             | 0.82              |



TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 11    | 279  | -0.07             | -0.13             | 0.40              | -0.49             | -0.75             | 0.16              | 281  | -0.07             | -0.12             | 0.36              | 0.04              | -0.29             | 0.09              |
|       | 6    | -0.15             | -0.15             | -0.03             | -0.26             | -1.37             | -0.30             | 238  | -0.15             | -0.13             | -0.07             | -0.20             | -0.75             | -0.37             |
| 12    | 286  | 0.00              | 0.00              | 0.00              | 3.51              | -0.44             | 0.40              | 287  | 0.00              | 0.00              | 0.00              | -1.01             | -1.25             | 0.93              |
|       | 18   | 0.00              | 0.00              | 0.00              | 1.25              | 1.70              | 0.16              | 283  | 0.00              | 0.00              | 0.00              | -0.30             | 1.59              | 0.69              |
| 13    | 25   | 0.00              | 0.00              | 0.00              | 0.37              | -0.11             | -0.14             | 26   | 0.00              | 0.00              | 0.00              | -0.19             | -0.32             | -0.29             |
|       | 19   | 0.00              | 0.00              | 0.00              | 0.67              | 1.92              | -0.14             | 22   | 0.00              | 0.00              | 0.00              | 0.12              | 1.72              | -0.29             |
| 14    | 26   | 0.00              | 0.00              | 0.00              | -0.14             | -0.20             | -0.26             | 27   | 0.00              | 0.00              | 0.00              | -0.45             | -0.34             | -0.35             |
|       | 22   | 0.00              | 0.00              | 0.00              | -0.09             | 1.39              | -0.26             | 23   | 0.00              | 0.00              | 0.00              | -0.40             | 1.25              | -0.34             |
| 15    | 27   | 0.00              | 0.00              | 0.00              | -0.24             | -0.21             | -0.33             | 28   | 0.00              | 0.00              | 0.00              | -0.35             | -0.29             | -0.40             |
|       | 23   | 0.00              | 0.00              | 0.00              | -0.24             | 1.05              | -0.31             | 24   | 0.00              | 0.00              | 0.00              | -0.35             | 0.97              | -0.38             |
| 16    | 28   | 0.00              | 0.00              | 0.00              | 0.64              | -0.01             | -0.39             | 13   | 0.00              | 0.00              | 0.00              | 0.83              | -0.06             | -0.34             |
|       | 24   | 0.00              | 0.00              | 0.00              | 0.14              | 0.83              | -0.30             | 11   | 0.00              | 0.00              | 0.00              | 0.32              | 0.77              | -0.25             |
| 17    | 29   | 0.00              | 0.00              | 0.00              | -0.61             | -1.12             | 0.03              | 30   | 0.00              | 0.00              | 0.00              | -0.52             | -1.07             | 0.03              |
|       | 25   | 0.00              | 0.00              | 0.00              | -0.58             | -1.50             | 0.02              | 26   | 0.00              | 0.00              | 0.00              | -0.49             | -1.45             | 0.02              |
| 18    | 30   | 0.00              | 0.00              | 0.00              | -0.72             | -1.05             | 0.07              | 31   | 0.00              | 0.00              | 0.00              | -0.57             | -0.92             | 0.11              |
|       | 26   | 0.00              | 0.00              | 0.00              | -0.82             | -1.44             | -0.02             | 27   | 0.00              | 0.00              | 0.00              | -0.66             | -1.31             | 0.02              |
| 19    | 31   | 0.00              | 0.00              | 0.00              | -0.75             | -0.88             | 0.19              | 32   | 0.00              | 0.00              | 0.00              | -0.32             | -0.64             | 0.24              |
|       | 27   | 0.00              | 0.00              | 0.00              | -0.90             | -1.16             | 0.03              | 28   | 0.00              | 0.00              | 0.00              | -0.47             | -0.92             | 0.08              |
| 20    | 32   | 0.00              | 0.00              | 0.00              | 0.09              | -0.62             | 0.37              | 16   | 0.00              | 0.00              | 0.00              | 1.30              | -0.19             | 0.41              |
|       | 28   | 0.00              | 0.00              | 0.00              | 0.01              | -0.37             | 0.15              | 13   | 0.00              | 0.00              | 0.00              | 1.22              | 0.05              | 0.20              |
| 21    | 33   | 0.00              | 0.00              | 0.00              | -0.35             | -1.69             | 0.00              | 34   | 0.00              | 0.00              | 0.00              | -0.40             | -1.71             | 0.03              |
|       | 29   | 0.00              | 0.00              | 0.00              | -0.51             | -1.25             | 0.02              | 30   | 0.00              | 0.00              | 0.00              | -0.56             | -1.28             | 0.05              |
| 22    | 34   | 0.00              | 0.00              | 0.00              | -0.41             | -1.74             | 0.12              | 35   | 0.00              | 0.00              | 0.00              | -0.52             | -1.78             | 0.15              |
|       | 30   | 0.00              | 0.00              | 0.00              | -0.55             | -1.29             | 0.13              | 31   | 0.00              | 0.00              | 0.00              | -0.66             | -1.32             | 0.16              |
| 23    | 35   | 0.00              | 0.00              | 0.00              | -0.35             | -1.82             | 0.23              | 36   | 0.00              | 0.00              | 0.00              | -0.45             | -1.90             | 0.25              |
|       | 31   | 0.00              | 0.00              | 0.00              | -0.47             | -1.29             | 0.28              | 32   | 0.00              | 0.00              | 0.00              | -0.58             | -1.36             | 0.31              |
| 24    | 36   | 0.00              | 0.00              | 0.00              | -0.07             | -1.99             | 0.31              | 40   | 0.00              | 0.00              | 0.00              | 0.08              | -2.01             | 0.18              |
|       | 32   | 0.00              | 0.00              | 0.00              | 0.31              | -1.14             | 0.36              | 16   | 0.00              | 0.00              | 0.00              | 0.47              | -1.16             | 0.23              |
| 25    | 21   | 0.00              | 0.00              | 0.00              | 2.25              | 5.94              | -0.20             | 37   | 0.00              | 0.00              | 0.00              | 0.48              | 4.70              | -0.08             |
|       | 33   | 0.00              | 0.00              | 0.00              | -0.63             | -2.56             | 0.15              | 34   | 0.00              | 0.00              | 0.00              | -0.31             | -1.99             | 0.27              |
| 26    | 37   | 0.00              | 0.00              | 0.00              | 0.88              | 4.78              | 0.01              | 38   | 0.00              | 0.00              | 0.00              | 0.44              | 4.72              | -0.06             |
|       | 34   | 0.00              | 0.00              | 0.00              | -0.60             | -2.05             | 0.11              | 35   | 0.00              | 0.00              | 0.00              | -0.48             | -2.18             | 0.05              |
| 27    | 38   | 0.00              | 0.00              | 0.00              | 0.37              | 4.70              | -0.10             | 39   | 0.00              | 0.00              | 0.00              | 1.01              | 5.18              | -0.21             |
|       | 35   | 0.00              | 0.00              | 0.00              | -0.74             | -2.23             | 0.05              | 36   | 0.00              | 0.00              | 0.00              | -0.30             | -2.66             | -0.06             |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 28    | 39   | 0.00  | 0.00  | 0.00  | 0.46  | 5.07  | -0.18 | 41   | 0.00  | 0.00  | 0.00  | 2.44  | 6.62  | -0.12 |
|       | 36   | 0.00  | 0.00  | 0.00  | -0.37 | -2.68 | -0.20 | 40   | 0.00  | 0.00  | 0.00  | -0.65 | -3.86 | -0.15 |
| 29    | 45   | 0.00  | 0.00  | 0.00  | -0.27 | -2.03 | -0.03 | 46   | 0.00  | 0.00  | 0.00  | -0.24 | -1.70 | -0.12 |
|       | 16   | 0.00  | 0.00  | 0.00  | 1.58  | 0.09  | -0.02 | 42   | 0.00  | 0.00  | 0.00  | -1.33 | -0.82 | -0.12 |
| 30    | 46   | 0.00  | 0.00  | 0.00  | -0.53 | -1.76 | 0.03  | 47   | 0.00  | 0.00  | 0.00  | -0.37 | -1.72 | -0.09 |
|       | 42   | 0.00  | 0.00  | 0.00  | 0.40  | -0.48 | 0.02  | 43   | 0.00  | 0.00  | 0.00  | -0.63 | -0.67 | -0.09 |
| 31    | 47   | 0.00  | 0.00  | 0.00  | -0.50 | -1.74 | -0.07 | 48   | 0.00  | 0.00  | 0.00  | -0.38 | -1.78 | -0.13 |
|       | 43   | 0.00  | 0.00  | 0.00  | 0.08  | -0.53 | -0.01 | 44   | 0.00  | 0.00  | 0.00  | -0.43 | -0.78 | -0.06 |
| 32    | 48   | 0.00  | 0.00  | 0.00  | -0.38 | -1.78 | -0.07 | 49   | 0.00  | 0.00  | 0.00  | -0.38 | -1.85 | -0.04 |
|       | 44   | 0.00  | 0.00  | 0.00  | -0.12 | -0.72 | -0.03 | 15   | 0.00  | 0.00  | 0.00  | -0.28 | -0.79 | 0.00  |
| 33    | 40   | 0.00  | 0.00  | 0.00  | -0.13 | -2.21 | 0.04  | 50   | 0.00  | 0.00  | 0.00  | -0.23 | -2.03 | 0.09  |
|       | 45   | 0.00  | 0.00  | 0.00  | -0.17 | -2.09 | -0.03 | 46   | 0.00  | 0.00  | 0.00  | -0.27 | -1.92 | 0.02  |
| 34    | 50   | 0.00  | 0.00  | 0.00  | -0.51 | -2.00 | -0.02 | 51   | 0.00  | 0.00  | 0.00  | -0.50 | -1.99 | -0.04 |
|       | 46   | 0.00  | 0.00  | 0.00  | -0.46 | -1.86 | -0.02 | 47   | 0.00  | 0.00  | 0.00  | -0.45 | -1.86 | -0.03 |
| 35    | 51   | 0.00  | 0.00  | 0.00  | -0.50 | -2.02 | -0.11 | 52   | 0.00  | 0.00  | 0.00  | -0.47 | -2.05 | -0.12 |
|       | 47   | 0.00  | 0.00  | 0.00  | -0.45 | -1.86 | -0.09 | 48   | 0.00  | 0.00  | 0.00  | -0.43 | -1.89 | -0.10 |
| 36    | 52   | 0.00  | 0.00  | 0.00  | -0.31 | -2.04 | -0.12 | 53   | 0.00  | 0.00  | 0.00  | -0.26 | -2.09 | -0.07 |
|       | 48   | 0.00  | 0.00  | 0.00  | -0.36 | -1.96 | -0.10 | 49   | 0.00  | 0.00  | 0.00  | -0.32 | -2.01 | -0.04 |
| 37    | 54   | 0.00  | 0.00  | 0.00  | -0.23 | -0.92 | 0.21  | 55   | 0.00  | 0.00  | 0.00  | -0.36 | -1.01 | 0.05  |
|       | 40   | 0.00  | 0.00  | 0.00  | -0.07 | -1.35 | 0.25  | 50   | 0.00  | 0.00  | 0.00  | -0.20 | -1.44 | 0.08  |
| 38    | 55   | 0.00  | 0.00  | 0.00  | -0.46 | -1.00 | 0.01  | 56   | 0.00  | 0.00  | 0.00  | -0.46 | -1.00 | -0.06 |
|       | 50   | 0.00  | 0.00  | 0.00  | -0.48 | -1.58 | 0.01  | 51   | 0.00  | 0.00  | 0.00  | -0.47 | -1.57 | -0.06 |
| 39    | 56   | 0.00  | 0.00  | 0.00  | -0.42 | -0.99 | -0.12 | 57   | 0.00  | 0.00  | 0.00  | -0.38 | -0.99 | -0.18 |
|       | 51   | 0.00  | 0.00  | 0.00  | -0.45 | -1.57 | -0.12 | 52   | 0.00  | 0.00  | 0.00  | -0.41 | -1.57 | -0.18 |
| 40    | 57   | 0.00  | 0.00  | 0.00  | -0.04 | -0.97 | -0.24 | 58   | 0.00  | 0.00  | 0.00  | 0.08  | -1.09 | -0.21 |
|       | 52   | 0.00  | 0.00  | 0.00  | -0.20 | -1.63 | -0.18 | 53   | 0.00  | 0.00  | 0.00  | -0.08 | -1.75 | -0.16 |
| 41    | 41   | 0.00  | 0.00  | 0.00  | 3.83  | 8.70  | -0.65 | 59   | 0.00  | 0.00  | 0.00  | -0.14 | 6.16  | 0.02  |
|       | 54   | 0.00  | 0.00  | 0.00  | -0.76 | -0.64 | -0.15 | 55   | 0.00  | 0.00  | 0.00  | 0.09  | -0.29 | 0.51  |
| 42    | 59   | 0.00  | 0.00  | 0.00  | 1.36  | 6.46  | -0.01 | 60   | 0.00  | 0.00  | 0.00  | 0.82  | 6.81  | 0.08  |
|       | 55   | 0.00  | 0.00  | 0.00  | -0.46 | -0.40 | -0.11 | 56   | 0.00  | 0.00  | 0.00  | -0.36 | -0.52 | -0.02 |
| 43    | 60   | 0.00  | 0.00  | 0.00  | 0.74  | 6.79  | -0.06 | 61   | 0.00  | 0.00  | 0.00  | 1.42  | 6.76  | -0.09 |
|       | 56   | 0.00  | 0.00  | 0.00  | -0.41 | -0.53 | -0.11 | 57   | 0.00  | 0.00  | 0.00  | -0.23 | -0.15 | -0.15 |
| 44    | 61   | 0.00  | 0.00  | 0.00  | 0.06  | 6.48  | 0.01  | 62   | 0.00  | 0.00  | 0.00  | 3.90  | 9.96  | 0.12  |
|       | 57   | 0.00  | 0.00  | 0.00  | -0.21 | -0.15 | -0.57 | 58   | 0.00  | 0.00  | 0.00  | 0.48  | -0.90 | -0.46 |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 45    | 49   | 0.00              | 0.00              | 0.00              | -0.32             | -1.84             | 0.04              | 66   | 0.00              | 0.00              | 0.00              | -0.45             | -1.83             | 0.07              |
|       | 15   | 0.00              | 0.00              | 0.00              | -0.27             | -0.79             | 0.00              | 63   | 0.00              | 0.00              | 0.00              | -0.12             | -0.69             | 0.04              |
| 46    | 66   | 0.00              | 0.00              | 0.00              | -0.38             | -1.82             | 0.11              | 67   | 0.00              | 0.00              | 0.00              | -0.52             | -1.84             | 0.07              |
|       | 63   | 0.00              | 0.00              | 0.00              | -0.42             | -0.75             | 0.06              | 64   | 0.00              | 0.00              | 0.00              | 0.09              | -0.49             | 0.02              |
| 47    | 67   | 0.00              | 0.00              | 0.00              | -0.37             | -1.81             | 0.11              | 68   | 0.00              | 0.00              | 0.00              | -0.54             | -1.82             | 0.01              |
|       | 64   | 0.00              | 0.00              | 0.00              | -0.63             | -0.63             | 0.08              | 65   | 0.00              | 0.00              | 0.00              | 0.43              | -0.36             | -0.02             |
| 48    | 68   | 0.00              | 0.00              | 0.00              | -0.33             | -1.78             | 0.07              | 69   | 0.00              | 0.00              | 0.00              | 0.24              | -2.11             | 0.23              |
|       | 65   | 0.00              | 0.00              | 0.00              | -1.26             | -0.70             | 0.07              | 14   | 0.00              | 0.00              | 0.00              | 1.60              | 0.35              | 0.22              |
| 49    | 53   | 0.00              | 0.00              | 0.00              | -0.51             | -2.59             | 0.06              | 70   | 0.00              | 0.00              | 0.00              | -0.41             | -2.30             | 0.12              |
|       | 49   | 0.00              | 0.00              | 0.00              | -0.30             | -1.75             | 0.01              | 66   | 0.00              | 0.00              | 0.00              | -0.46             | -1.86             | 0.06              |
| 50    | 70   | 0.00              | 0.00              | 0.00              | -0.48             | -2.31             | 0.13              | 71   | 0.00              | 0.00              | 0.00              | -0.65             | -2.29             | 0.10              |
|       | 66   | 0.00              | 0.00              | 0.00              | -0.39             | -1.85             | 0.09              | 67   | 0.00              | 0.00              | 0.00              | -0.51             | -1.83             | 0.07              |
| 51    | 71   | 0.00              | 0.00              | 0.00              | -0.68             | -2.29             | 0.02              | 72   | 0.00              | 0.00              | 0.00              | -0.49             | -2.37             | -0.01             |
|       | 67   | 0.00              | 0.00              | 0.00              | -0.37             | -1.80             | 0.07              | 68   | 0.00              | 0.00              | 0.00              | -0.55             | -1.87             | 0.04              |
| 52    | 72   | 0.00              | 0.00              | 0.00              | -0.54             | -2.38             | -0.09             | 73   | 0.00              | 0.00              | 0.00              | -0.31             | -3.04             | -0.34             |
|       | 68   | 0.00              | 0.00              | 0.00              | -0.34             | -1.83             | 0.25              | 69   | 0.00              | 0.00              | 0.00              | 0.26              | -2.06             | 0.00              |
| 53    | 58   | 0.00              | 0.00              | 0.00              | 0.83              | -0.52             | 0.07              | 74   | 0.00              | 0.00              | 0.00              | -0.25             | -0.30             | 0.44              |
|       | 53   | 0.00              | 0.00              | 0.00              | -0.48             | -2.46             | -0.09             | 70   | 0.00              | 0.00              | 0.00              | -0.42             | -2.36             | 0.28              |
| 54    | 74   | 0.00              | 0.00              | 0.00              | -0.38             | -0.32             | 0.23              | 75   | 0.00              | 0.00              | 0.00              | -0.37             | -0.52             | 0.02              |
|       | 70   | 0.00              | 0.00              | 0.00              | -0.49             | -2.37             | 0.24              | 71   | 0.00              | 0.00              | 0.00              | -0.64             | -2.24             | 0.03              |
| 55    | 75   | 0.00              | 0.00              | 0.00              | -0.40             | -0.52             | 0.05              | 76   | 0.00              | 0.00              | 0.00              | -0.42             | -0.39             | -0.17             |
|       | 71   | 0.00              | 0.00              | 0.00              | -0.67             | -2.25             | 0.09              | 72   | 0.00              | 0.00              | 0.00              | -0.51             | -2.48             | -0.13             |
| 56    | 76   | 0.00              | 0.00              | 0.00              | -0.21             | -0.35             | -0.19             | 77   | 0.00              | 0.00              | 0.00              | -0.10             | -0.56             | -0.38             |
|       | 72   | 0.00              | 0.00              | 0.00              | -0.56             | -2.49             | -0.12             | 73   | 0.00              | 0.00              | 0.00              | -0.18             | -2.39             | -0.32             |
| 57    | 62   | 0.00              | 0.00              | 0.00              | 3.86              | 9.96              | -0.06             | 78   | 0.00              | 0.00              | 0.00              | 0.08              | 6.55              | -0.11             |
|       | 58   | 0.00              | 0.00              | 0.00              | 0.76              | -0.84             | 0.49              | 74   | 0.00              | 0.00              | 0.00              | -0.22             | -0.12             | 0.44              |
| 58    | 78   | 0.00              | 0.00              | 0.00              | 1.46              | 6.83              | 0.05              | 79   | 0.00              | 0.00              | 0.00              | 0.72              | 7.01              | 0.04              |
|       | 74   | 0.00              | 0.00              | 0.00              | -0.34             | -0.14             | 0.07              | 75   | 0.00              | 0.00              | 0.00              | -0.37             | -0.55             | 0.06              |
| 59    | 79   | 0.00              | 0.00              | 0.00              | 0.96              | 7.06              | -0.08             | 80   | 0.00              | 0.00              | 0.00              | 1.25              | 6.82              | -0.04             |
|       | 75   | 0.00              | 0.00              | 0.00              | -0.41             | -0.56             | -0.03             | 76   | 0.00              | 0.00              | 0.00              | -0.43             | -0.42             | 0.01              |
| 60    | 80   | 0.00              | 0.00              | 0.00              | 0.44              | 6.66              | 0.18              | 81   | 0.00              | 0.00              | 0.00              | 3.09              | 8.94              | 0.47              |
|       | 76   | 0.00              | 0.00              | 0.00              | -0.21             | -0.37             | -0.52             | 77   | 0.00              | 0.00              | 0.00              | 0.03              | 0.09              | -0.22             |
| 61    | 17   | 0.00              | 0.00              | 0.00              | 0.76              | -0.09             | 0.36              | 86   | 0.00              | 0.00              | 0.00              | 0.51              | -0.03             | 0.41              |
|       | 12   | 0.00              | 0.00              | 0.00              | 0.38              | 0.84              | 0.26              | 82   | 0.00              | 0.00              | 0.00              | 0.13              | 0.90              | 0.31              |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 62    | 86   | 0.00              | 0.00              | 0.00              | -0.47             | -0.32             | 0.40              | 87   | 0.00              | 0.00              | 0.00              | -0.33             | -0.23             | 0.32              |
|       | 82   | 0.00              | 0.00              | 0.00              | -0.35             | 1.09              | 0.38              | 83   | 0.00              | 0.00              | 0.00              | -0.22             | 1.19              | 0.30              |
| 63    | 87   | 0.00              | 0.00              | 0.00              | -0.47             | -0.33             | 0.33              | 88   | 0.00              | 0.00              | 0.00              | -0.14             | -0.17             | 0.26              |
|       | 83   | 0.00              | 0.00              | 0.00              | -0.36             | 1.41              | 0.31              | 84   | 0.00              | 0.00              | 0.00              | -0.03             | 1.57              | 0.24              |
| 64    | 88   | 0.00              | 0.00              | 0.00              | -0.12             | -0.26             | 0.32              | 89   | 0.00              | 0.00              | 0.00              | 0.58              | 0.00              | 0.20              |
|       | 84   | 0.00              | 0.00              | 0.00              | 0.19              | 1.96              | 0.30              | 85   | 0.00              | 0.00              | 0.00              | 0.88              | 2.22              | 0.18              |
| 65    | 14   | 0.00              | 0.00              | 0.00              | 1.28              | -0.13             | -0.41             | 90   | 0.00              | 0.00              | 0.00              | 0.02              | -0.61             | -0.35             |
|       | 17   | 0.00              | 0.00              | 0.00              | 1.18              | 0.02              | -0.19             | 86   | 0.00              | 0.00              | 0.00              | -0.08             | -0.46             | -0.13             |
| 66    | 90   | 0.00              | 0.00              | 0.00              | -0.45             | -0.70             | -0.21             | 91   | 0.00              | 0.00              | 0.00              | -0.80             | -0.95             | -0.15             |
|       | 86   | 0.00              | 0.00              | 0.00              | -0.60             | -1.05             | -0.05             | 87   | 0.00              | 0.00              | 0.00              | -0.95             | -1.29             | 0.00              |
| 67    | 91   | 0.00              | 0.00              | 0.00              | -0.57             | -1.02             | -0.08             | 92   | 0.00              | 0.00              | 0.00              | -0.66             | -1.14             | -0.04             |
|       | 87   | 0.00              | 0.00              | 0.00              | -0.68             | -1.44             | 0.01              | 88   | 0.00              | 0.00              | 0.00              | -0.76             | -1.56             | 0.04              |
| 68    | 92   | 0.00              | 0.00              | 0.00              | -0.38             | -1.16             | -0.01             | 93   | 0.00              | 0.00              | 0.00              | -0.41             | -1.22             | -0.02             |
|       | 88   | 0.00              | 0.00              | 0.00              | -0.35             | -1.58             | 0.01              | 89   | 0.00              | 0.00              | 0.00              | -0.38             | -1.63             | 0.01              |
| 69    | 94   | 0.00              | 0.00              | 0.00              | -0.10             | -1.78             | -0.39             | 90   | 0.00              | 0.00              | 0.00              | 0.21              | -1.05             | -0.44             |
|       | 69   | 0.00              | 0.00              | 0.00              | 0.40              | -1.50             | -0.32             | 14   | 0.00              | 0.00              | 0.00              | 0.71              | -0.77             | -0.36             |
| 70    | 94   | 0.00              | 0.00              | 0.00              | -0.44             | -1.83             | -0.25             | 95   | 0.00              | 0.00              | 0.00              | -0.44             | -1.79             | -0.21             |
|       | 90   | 0.00              | 0.00              | 0.00              | -0.59             | -1.39             | -0.29             | 91   | 0.00              | 0.00              | 0.00              | -0.59             | -1.35             | -0.24             |
| 71    | 95   | 0.00              | 0.00              | 0.00              | -0.57             | -1.81             | -0.16             | 96   | 0.00              | 0.00              | 0.00              | -0.50             | -1.81             | -0.15             |
|       | 91   | 0.00              | 0.00              | 0.00              | -0.62             | -1.32             | -0.13             | 92   | 0.00              | 0.00              | 0.00              | -0.56             | -1.32             | -0.12             |
| 72    | 96   | 0.00              | 0.00              | 0.00              | -0.30             | -1.79             | -0.09             | 97   | 0.00              | 0.00              | 0.00              | -0.24             | -1.79             | -0.06             |
|       | 92   | 0.00              | 0.00              | 0.00              | -0.41             | -1.31             | -0.06             | 93   | 0.00              | 0.00              | 0.00              | -0.35             | -1.31             | -0.03             |
| 73    | 77   | 0.00              | 0.00              | 0.00              | 0.49              | 0.69              | 0.11              | 98   | 0.00              | 0.00              | 0.00              | 1.45              | 2.06              | 0.30              |
|       | 73   | 0.00              | 0.00              | 0.00              | -0.03             | -1.75             | -0.11             | 94   | 0.00              | 0.00              | 0.00              | 0.93              | -0.38             | 0.08              |
| 74    | 98   | 0.00              | 0.00              | 0.00              | 0.31              | 2.43              | 0.09              | 99   | 0.00              | 0.00              | 0.00              | 0.15              | 2.55              | 0.15              |
|       | 94   | 0.00              | 0.00              | 0.00              | 0.18              | -0.05             | -0.10             | 95   | 0.00              | 0.00              | 0.00              | 0.02              | 0.07              | -0.04             |
| 75    | 99   | 0.00              | 0.00              | 0.00              | 0.03              | 2.65              | -0.07             | 100  | 0.00              | 0.00              | 0.00              | 0.10              | 2.70              | -0.02             |
|       | 95   | 0.00              | 0.00              | 0.00              | -0.07             | 0.13              | -0.13             | 96   | 0.00              | 0.00              | 0.00              | 0.01              | 0.19              | -0.08             |
| 76    | 100  | 0.00              | 0.00              | 0.00              | 0.38              | 2.91              | -0.13             | 101  | 0.00              | 0.00              | 0.00              | 0.87              | 3.06              | -0.02             |
|       | 96   | 0.00              | 0.00              | 0.00              | 0.12              | 0.16              | -0.21             | 97   | 0.00              | 0.00              | 0.00              | 0.61              | 0.31              | -0.10             |
| 77    | 94   | 0.00              | 0.00              | 0.00              | -0.33             | -2.60             | -0.10             | 94   | 0.00              | 0.00              | 0.00              | -0.33             | -2.60             | -0.10             |
|       | 73   | 0.00              | 0.00              | 0.00              | -0.33             | -2.60             | -0.10             | 69   | 0.00              | 0.00              | 0.00              | -0.33             | -2.60             | -0.10             |
| 78    | 81   | 0.00              | 0.00              | 0.00              | 0.75              | 3.64              | 0.64              | 81   | 0.00              | 0.00              | 0.00              | 0.75              | 3.64              | 0.64              |
|       | 77   | 0.00              | 0.00              | 0.00              | 0.75              | 3.64              | 0.64              | 98   | 0.00              | 0.00              | 0.00              | 0.75              | 3.64              | 0.64              |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 79    | 89   | 0.00              | 0.00              | 0.00              | -0.81             | -3.14             | -0.13             | 106  | 0.00              | 0.00              | 0.00              | -0.21             | -2.15             | -0.32             |
|       | 85   | 0.00              | 0.00              | 0.00              | 3.11              | 5.69              | 0.06              | 102  | 0.00              | 0.00              | 0.00              | -0.36             | 3.85              | -0.13             |
| 80    | 106  | 0.00              | 0.00              | 0.00              | -0.54             | -2.21             | -0.11             | 107  | 0.00              | 0.00              | 0.00              | -0.54             | -2.21             | -0.01             |
|       | 102  | 0.00              | 0.00              | 0.00              | 0.76              | 4.08              | -0.11             | 103  | 0.00              | 0.00              | 0.00              | 0.25              | 3.97              | -0.01             |
| 81    | 107  | 0.00              | 0.00              | 0.00              | -0.56             | -2.21             | 0.03              | 108  | 0.00              | 0.00              | 0.00              | -0.51             | -2.18             | 0.13              |
|       | 103  | 0.00              | 0.00              | 0.00              | 0.29              | 3.98              | 0.01              | 104  | 0.00              | 0.00              | 0.00              | 0.71              | 4.08              | 0.11              |
| 82    | 108  | 0.00              | 0.00              | 0.00              | -0.27             | -2.14             | 0.41              | 109  | 0.00              | 0.00              | 0.00              | -0.52             | -2.88             | 0.30              |
|       | 104  | 0.00              | 0.00              | 0.00              | -0.14             | 3.91              | 0.01              | 105  | 0.00              | 0.00              | 0.00              | 2.78              | 5.75              | -0.11             |
| 83    | 93   | 0.00              | 0.00              | 0.00              | -0.07             | -0.63             | -0.02             | 110  | 0.00              | 0.00              | 0.00              | -0.22             | -0.64             | -0.04             |
|       | 89   | 0.00              | 0.00              | 0.00              | -0.63             | -2.26             | 0.01              | 106  | 0.00              | 0.00              | 0.00              | -0.24             | -2.26             | 0.00              |
| 84    | 110  | 0.00              | 0.00              | 0.00              | -0.11             | -0.61             | -0.02             | 111  | 0.00              | 0.00              | 0.00              | -0.14             | -0.65             | 0.03              |
|       | 106  | 0.00              | 0.00              | 0.00              | -0.56             | -2.33             | -0.07             | 107  | 0.00              | 0.00              | 0.00              | -0.55             | -2.23             | -0.02             |
| 85    | 111  | 0.00              | 0.00              | 0.00              | -0.13             | -0.65             | -0.04             | 112  | 0.00              | 0.00              | 0.00              | -0.11             | -0.65             | 0.01              |
|       | 107  | 0.00              | 0.00              | 0.00              | -0.56             | -2.23             | 0.05              | 108  | 0.00              | 0.00              | 0.00              | -0.54             | -2.33             | 0.10              |
| 86    | 112  | 0.00              | 0.00              | 0.00              | -0.16             | -0.66             | -0.01             | 113  | 0.00              | 0.00              | 0.00              | -0.10             | -0.58             | -0.06             |
|       | 108  | 0.00              | 0.00              | 0.00              | -0.30             | -2.28             | 0.11              | 109  | 0.00              | 0.00              | 0.00              | -0.46             | -2.55             | 0.05              |
| 87    | 97   | 0.00              | 0.00              | 0.00              | -0.62             | -2.53             | 0.01              | 114  | 0.00              | 0.00              | 0.00              | -0.22             | -2.37             | 0.05              |
|       | 93   | 0.00              | 0.00              | 0.00              | -0.07             | -0.61             | -0.05             | 110  | 0.00              | 0.00              | 0.00              | -0.22             | -0.65             | -0.01             |
| 88    | 114  | 0.00              | 0.00              | 0.00              | -0.55             | -2.44             | 0.09              | 115  | 0.00              | 0.00              | 0.00              | -0.54             | -2.26             | 0.06              |
|       | 110  | 0.00              | 0.00              | 0.00              | -0.11             | -0.63             | -0.01             | 111  | 0.00              | 0.00              | 0.00              | -0.14             | -0.66             | -0.05             |
| 89    | 115  | 0.00              | 0.00              | 0.00              | -0.56             | -2.27             | -0.02             | 116  | 0.00              | 0.00              | 0.00              | -0.54             | -2.33             | -0.07             |
|       | 111  | 0.00              | 0.00              | 0.00              | -0.14             | -0.65             | 0.03              | 112  | 0.00              | 0.00              | 0.00              | -0.11             | -0.65             | -0.02             |
| 90    | 116  | 0.00              | 0.00              | 0.00              | -0.31             | -2.28             | -0.08             | 117  | 0.00              | 0.00              | 0.00              | -0.43             | -2.50             | -0.03             |
|       | 112  | 0.00              | 0.00              | 0.00              | -0.16             | -0.66             | 0.01              | 113  | 0.00              | 0.00              | 0.00              | -0.10             | -0.58             | 0.06              |
| 91    | 101  | 0.00              | 0.00              | 0.00              | 3.27              | 7.06              | -0.03             | 118  | 0.00              | 0.00              | 0.00              | -0.12             | 4.90              | 0.11              |
|       | 97   | 0.00              | 0.00              | 0.00              | -0.79             | -3.40             | 0.28              | 114  | 0.00              | 0.00              | 0.00              | -0.19             | -2.22             | 0.42              |
| 92    | 118  | 0.00              | 0.00              | 0.00              | 0.99              | 5.12              | 0.14              | 119  | 0.00              | 0.00              | 0.00              | 0.40              | 4.91              | 0.03              |
|       | 114  | 0.00              | 0.00              | 0.00              | -0.52             | -2.29             | 0.17              | 115  | 0.00              | 0.00              | 0.00              | -0.53             | -2.24             | 0.06              |
| 93    | 119  | 0.00              | 0.00              | 0.00              | 0.48              | 4.92              | 0.01              | 120  | 0.00              | 0.00              | 0.00              | 0.87              | 4.94              | -0.09             |
|       | 115  | 0.00              | 0.00              | 0.00              | -0.56             | -2.24             | 0.01              | 116  | 0.00              | 0.00              | 0.00              | -0.51             | -2.17             | -0.09             |
| 94    | 120  | 0.00              | 0.00              | 0.00              | 0.07              | 4.78              | 0.02              | 121  | 0.00              | 0.00              | 0.00              | 2.87              | 6.57              | 0.13              |
|       | 116  | 0.00              | 0.00              | 0.00              | -0.28             | -2.13             | -0.38             | 117  | 0.00              | 0.00              | 0.00              | -0.50             | -2.85             | -0.27             |
| 95    | 109  | 0.00              | 0.00              | 0.00              | -0.51             | -2.88             | -0.31             | 126  | 0.00              | 0.00              | 0.00              | -0.26             | -2.16             | -0.42             |
|       | 105  | 0.00              | 0.00              | 0.00              | 2.69              | 5.73              | 0.11              | 122  | 0.00              | 0.00              | 0.00              | -0.02             | 4.00              | 0.00              |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 96    | 126  | 0.00              | 0.00              | 0.00              | -0.51             | -2.21             | -0.16             | 127  | 0.00              | 0.00              | 0.00              | -0.50             | -2.18             | -0.06             |
|       | 122  | 0.00              | 0.00              | 0.00              | 0.83              | 4.17              | -0.12             | 123  | 0.00              | 0.00              | 0.00              | 0.18              | 3.96              | -0.02             |
| 97    | 127  | 0.00              | 0.00              | 0.00              | -0.54             | -2.19             | 0.01              | 128  | 0.00              | 0.00              | 0.00              | -0.47             | -2.17             | 0.11              |
|       | 123  | 0.00              | 0.00              | 0.00              | 0.31              | 3.99              | -0.01             | 124  | 0.00              | 0.00              | 0.00              | 0.69              | 4.08              | 0.09              |
| 98    | 128  | 0.00              | 0.00              | 0.00              | -0.29             | -2.14             | 0.35              | 129  | 0.00              | 0.00              | 0.00              | -0.53             | -2.81             | 0.25              |
|       | 124  | 0.00              | 0.00              | 0.00              | 0.11              | 3.96              | -0.02             | 125  | 0.00              | 0.00              | 0.00              | 2.41              | 5.52              | -0.12             |
| 99    | 113  | 0.00              | 0.00              | 0.00              | -0.11             | -0.58             | 0.06              | 130  | 0.00              | 0.00              | 0.00              | -0.15             | -0.65             | 0.01              |
|       | 109  | 0.00              | 0.00              | 0.00              | -0.44             | -2.55             | -0.05             | 126  | 0.00              | 0.00              | 0.00              | -0.29             | -2.30             | -0.11             |
| 100   | 130  | 0.00              | 0.00              | 0.00              | -0.09             | -0.64             | 0.00              | 131  | 0.00              | 0.00              | 0.00              | -0.11             | -0.65             | 0.04              |
|       | 126  | 0.00              | 0.00              | 0.00              | -0.54             | -2.35             | -0.10             | 127  | 0.00              | 0.00              | 0.00              | -0.51             | -2.22             | -0.06             |
| 101   | 131  | 0.00              | 0.00              | 0.00              | -0.09             | -0.65             | -0.03             | 132  | 0.00              | 0.00              | 0.00              | -0.10             | -0.63             | 0.01              |
|       | 127  | 0.00              | 0.00              | 0.00              | -0.55             | -2.23             | 0.02              | 128  | 0.00              | 0.00              | 0.00              | -0.49             | -2.31             | 0.06              |
| 102   | 132  | 0.00              | 0.00              | 0.00              | -0.12             | -0.64             | 0.00              | 133  | 0.00              | 0.00              | 0.00              | -0.23             | -0.58             | -0.06             |
|       | 128  | 0.00              | 0.00              | 0.00              | -0.32             | -2.27             | 0.07              | 129  | 0.00              | 0.00              | 0.00              | -0.46             | -2.47             | 0.01              |
| 103   | 117  | 0.00              | 0.00              | 0.00              | -0.44             | -2.51             | 0.07              | 134  | 0.00              | 0.00              | 0.00              | -0.27             | -2.23             | 0.13              |
|       | 113  | 0.00              | 0.00              | 0.00              | -0.11             | -0.58             | -0.07             | 130  | 0.00              | 0.00              | 0.00              | -0.15             | -0.65             | -0.01             |
| 104   | 134  | 0.00              | 0.00              | 0.00              | -0.53             | -2.28             | 0.12              | 135  | 0.00              | 0.00              | 0.00              | -0.48             | -2.12             | 0.08              |
|       | 130  | 0.00              | 0.00              | 0.00              | -0.09             | -0.64             | 0.00              | 131  | 0.00              | 0.00              | 0.00              | -0.11             | -0.65             | -0.04             |
| 105   | 135  | 0.00              | 0.00              | 0.00              | -0.53             | -2.13             | 0.00              | 136  | 0.00              | 0.00              | 0.00              | -0.45             | -2.16             | -0.04             |
|       | 131  | 0.00              | 0.00              | 0.00              | -0.09             | -0.65             | 0.03              | 132  | 0.00              | 0.00              | 0.00              | -0.10             | -0.63             | -0.01             |
| 106   | 136  | 0.00              | 0.00              | 0.00              | -0.31             | -2.13             | -0.04             | 137  | 0.00              | 0.00              | 0.00              | -0.39             | -2.28             | 0.02              |
|       | 132  | 0.00              | 0.00              | 0.00              | -0.12             | -0.64             | 0.00              | 133  | 0.00              | 0.00              | 0.00              | -0.23             | -0.58             | 0.06              |
| 107   | 121  | 0.00              | 0.00              | 0.00              | 2.86              | 6.56              | -0.11             | 138  | 0.00              | 0.00              | 0.00              | 0.12              | 4.72              | -0.01             |
|       | 117  | 0.00              | 0.00              | 0.00              | -0.51             | -2.85             | 0.35              | 134  | 0.00              | 0.00              | 0.00              | -0.24             | -2.08             | 0.46              |
| 108   | 138  | 0.00              | 0.00              | 0.00              | 1.01              | 4.89              | 0.13              | 139  | 0.00              | 0.00              | 0.00              | 0.30              | 4.61              | 0.03              |
|       | 134  | 0.00              | 0.00              | 0.00              | -0.50             | -2.14             | 0.20              | 135  | 0.00              | 0.00              | 0.00              | -0.48             | -2.08             | 0.10              |
| 109   | 139  | 0.00              | 0.00              | 0.00              | 0.48              | 4.65              | 0.03              | 140  | 0.00              | 0.00              | 0.00              | 0.80              | 4.65              | -0.07             |
|       | 135  | 0.00              | 0.00              | 0.00              | -0.53             | -2.09             | 0.04              | 136  | 0.00              | 0.00              | 0.00              | -0.42             | -2.02             | -0.06             |
| 110   | 140  | 0.00              | 0.00              | 0.00              | 0.30              | 4.55              | 0.05              | 141  | 0.00              | 0.00              | 0.00              | 2.46              | 6.04              | 0.15              |
|       | 136  | 0.00              | 0.00              | 0.00              | -0.28             | -1.99             | -0.31             | 137  | 0.00              | 0.00              | 0.00              | -0.46             | -2.63             | -0.21             |
| 111   | 129  | 0.00              | 0.00              | 0.00              | -0.61             | -2.83             | -0.34             | 146  | 0.00              | 0.00              | 0.00              | -0.59             | -2.16             | -0.55             |
|       | 125  | 0.00              | 0.00              | 0.00              | 2.78              | 5.59              | 0.13              | 142  | 0.00              | 0.00              | 0.00              | -0.23             | 3.71              | -0.08             |
| 112   | 146  | 0.00              | 0.00              | 0.00              | -0.89             | -2.22             | -0.34             | 147  | 0.00              | 0.00              | 0.00              | -1.37             | -2.17             | -0.52             |
|       | 142  | 0.00              | 0.00              | 0.00              | 0.87              | 3.93              | -0.11             | 143  | 0.00              | 0.00              | 0.00              | -0.02             | 3.28              | -0.29             |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N.ro | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> |
| 113   | 147  | 0.00              | 0.00              | 0.00              | -1.45             | -2.18             | -0.61             | 148  | 0.00              | 0.00              | 0.00              | -1.18             | -1.41             | -0.94             |
|       | 143  | 0.00              | 0.00              | 0.00              | 0.28              | 3.34              | -0.17             | 144  | 0.00              | 0.00              | 0.00              | 0.33              | 2.05              | -0.50             |
| 114   | 148  | 0.00              | 0.00              | 0.00              | -1.27             | -1.42             | -1.01             | 149  | 0.00              | 0.00              | 0.00              | 3.35              | -0.76             | -0.47             |
|       | 144  | 0.00              | 0.00              | 0.00              | -0.21             | 1.94              | -0.69             | 145  | 0.00              | 0.00              | 0.00              | 1.16              | 2.04              | -0.14             |
| 115   | 133  | 0.00              | 0.00              | 0.00              | -0.19             | -0.57             | 0.09              | 150  | 0.00              | 0.00              | 0.00              | -0.68             | -0.67             | -0.01             |
|       | 129  | 0.00              | 0.00              | 0.00              | -0.54             | -2.48             | -0.12             | 146  | 0.00              | 0.00              | 0.00              | -0.61             | -2.22             | -0.21             |
| 116   | 150  | 0.00              | 0.00              | 0.00              | -0.62             | -0.66             | 0.07              | 151  | 0.00              | 0.00              | 0.00              | -1.26             | -0.61             | 0.02              |
|       | 146  | 0.00              | 0.00              | 0.00              | -0.90             | -2.28             | -0.31             | 147  | 0.00              | 0.00              | 0.00              | -1.35             | -2.04             | -0.37             |
| 117   | 151  | 0.00              | 0.00              | 0.00              | -1.34             | -0.62             | 0.09              | 152  | 0.00              | 0.00              | 0.00              | -0.79             | -0.27             | 0.08              |
|       | 147  | 0.00              | 0.00              | 0.00              | -1.42             | -2.06             | -0.48             | 148  | 0.00              | 0.00              | 0.00              | -1.20             | -1.49             | -0.49             |
| 118   | 152  | 0.00              | 0.00              | 0.00              | -0.94             | -0.30             | 0.25              | 153  | 0.00              | 0.00              | 0.00              | 4.18              | 0.67              | 0.40              |
|       | 148  | 0.00              | 0.00              | 0.00              | -1.29             | -1.51             | -0.66             | 149  | 0.00              | 0.00              | 0.00              | 3.64              | 0.72              | -0.51             |
| 119   | 137  | 0.00              | 0.00              | 0.00              | -0.51             | -2.30             | 0.14              | 154  | 0.00              | 0.00              | 0.00              | -0.49             | -1.98             | 0.25              |
|       | 133  | 0.00              | 0.00              | 0.00              | -0.19             | -0.57             | -0.09             | 150  | 0.00              | 0.00              | 0.00              | -0.68             | -0.68             | 0.02              |
| 120   | 154  | 0.00              | 0.00              | 0.00              | -0.82             | -2.05             | 0.33              | 155  | 0.00              | 0.00              | 0.00              | -1.14             | -1.77             | 0.43              |
|       | 150  | 0.00              | 0.00              | 0.00              | -0.62             | -0.66             | -0.05             | 151  | 0.00              | 0.00              | 0.00              | -1.27             | -0.63             | 0.05              |
| 121   | 155  | 0.00              | 0.00              | 0.00              | -1.26             | -1.80             | 0.51              | 156  | 0.00              | 0.00              | 0.00              | -0.99             | -1.41             | 0.59              |
|       | 151  | 0.00              | 0.00              | 0.00              | -1.35             | -0.65             | 0.01              | 152  | 0.00              | 0.00              | 0.00              | -0.78             | -0.20             | 0.09              |
| 122   | 156  | 0.00              | 0.00              | 0.00              | -1.16             | -1.45             | 0.80              | 157  | 0.00              | 0.00              | 0.00              | 3.23              | 1.35              | 0.56              |
|       | 152  | 0.00              | 0.00              | 0.00              | -0.93             | -0.23             | -0.06             | 153  | 0.00              | 0.00              | 0.00              | 4.04              | -0.01             | -0.30             |
| 123   | 141  | 0.00              | 0.00              | 0.00              | 2.97              | 6.14              | -0.12             | 158  | 0.00              | 0.00              | 0.00              | -0.17             | 4.08              | 0.09              |
|       | 137  | 0.00              | 0.00              | 0.00              | -0.58             | -2.66             | 0.41              | 154  | 0.00              | 0.00              | 0.00              | -0.48             | -1.91             | 0.61              |
| 124   | 158  | 0.00              | 0.00              | 0.00              | 1.04              | 4.33              | 0.12              | 159  | 0.00              | 0.00              | 0.00              | 0.02              | 3.59              | 0.28              |
|       | 154  | 0.00              | 0.00              | 0.00              | -0.81             | -1.97             | 0.41              | 155  | 0.00              | 0.00              | 0.00              | -1.17             | -1.89             | 0.57              |
| 125   | 159  | 0.00              | 0.00              | 0.00              | 0.49              | 3.69              | 0.16              | 160  | 0.00              | 0.00              | 0.00              | 0.29              | 2.38              | 0.43              |
|       | 155  | 0.00              | 0.00              | 0.00              | -1.28             | -1.92             | 0.66              | 156  | 0.00              | 0.00              | 0.00              | -0.95             | -1.24             | 0.92              |
| 126   | 160  | 0.00              | 0.00              | 0.00              | 0.50              | 2.42              | 0.55              | 161  | 0.00              | 0.00              | 0.00              | 0.39              | 2.76              | 0.04              |
|       | 156  | 0.00              | 0.00              | 0.00              | -1.12             | -1.27             | 1.10              | 157  | 0.00              | 0.00              | 0.00              | 2.64              | -1.60             | 0.58              |
| 127   | 162  | -0.08             | -0.78             | 1.20              | -0.07             | -0.34             | -0.29             | 301  | 0.06              | -0.05             | 1.91              | 0.02              | 0.08              | -0.29             |
|       | 18   | -0.08             | -0.78             | 0.00              | 0.39              | 1.97              | 0.28              | 283  | 0.06              | -0.05             | 0.71              | -0.17             | -0.86             | 0.28              |
| 128   | 163  | -0.74             | -2.87             | 2.07              | 1.12              | 5.60              | -0.47             | 304  | -0.02             | 0.76              | 2.44              | -0.24             | -1.20             | -0.47             |
|       | 19   | -0.74             | -2.87             | 0.40              | -0.76             | -3.79             | 0.46              | 22   | -0.02             | 0.76              | 0.77              | -0.13             | -0.65             | 0.46              |
| 129   | 164  | -0.55             | -1.99             | -0.37             | 0.57              | 2.84              | -0.19             | 310  | 0.06              | 1.03              | -0.36             | -0.15             | -0.74             | -0.19             |
|       | 11   | -0.55             | -1.99             | -1.39             | -0.25             | -1.24             | 0.18              | 307  | 0.06              | 1.03              | -1.38             | 0.08              | 0.39              | 0.18              |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 130   | 166  | -1.08             | -4.26             | 2.11              | 1.20              | 6.01              | -0.56             | 316  | 0.18              | 2.05              | 2.12              | -0.28             | -1.41             | -0.56             |
|       | 165  | -1.08             | -4.26             | -0.29             | -0.23             | -1.15             | 0.55              | 313  | 0.18              | 2.05              | -0.28             | 0.09              | 0.45              | 0.55              |
| 131   | 167  | -0.59             | -2.43             | 2.08              | 0.61              | 3.03              | -0.24             | 319  | 0.01              | 0.60              | 1.72              | -0.15             | -0.77             | -0.24             |
|       | 12   | -0.59             | -2.43             | 0.73              | -0.27             | -1.37             | 0.23              | 82   | 0.01              | 0.60              | 0.37              | 0.07              | 0.34              | 0.23              |
| 132   | 168  | -0.81             | -3.02             | 2.21              | 1.26              | 6.30              | -0.57             | 322  | 0.01              | 1.05              | 2.59              | -0.29             | -1.47             | -0.57             |
|       | 85   | -0.81             | -3.02             | 0.65              | -0.84             | -4.18             | 0.57              | 102  | 0.01              | 1.05              | 1.02              | -0.37             | -1.83             | 0.57              |
| 133   | 169  | -0.79             | -3.13             | 2.60              | 1.22              | 6.11              | -0.66             | 325  | 0.01              | 0.91              | 2.92              | -0.27             | -1.36             | -0.66             |
|       | 105  | -0.79             | -3.13             | 0.76              | -0.72             | -3.60             | 0.65              | 122  | 0.01              | 0.91              | 1.08              | -0.38             | -1.88             | 0.65              |
| 134   | 170  | -0.74             | -2.90             | 2.74              | 1.18              | 5.90              | -0.60             | 328  | 0.02              | 0.89              | 3.07              | -0.25             | -1.27             | -0.60             |
|       | 125  | -0.74             | -2.90             | 1.04              | -0.70             | -3.51             | 0.59              | 142  | 0.02              | 0.89              | 1.37              | -0.36             | -1.81             | 0.59              |
| 135   | 172  | -0.13             | -1.02             | 0.50              | 0.10              | 0.51              | 0.35              | 331  | 0.07              | -0.05             | 0.28              | -0.03             | -0.13             | 0.35              |
|       | 20   | -0.13             | -1.02             | -0.57             | -0.36             | -1.80             | -0.36             | 298  | 0.07              | -0.05             | -0.79             | 0.36              | 1.79              | -0.36             |
| 136   | 173  | -0.74             | -2.70             | 1.21              | -1.27             | -6.35             | 0.74              | 334  | -0.06             | 0.73              | 1.19              | 0.27              | 1.36              | 0.74              |
|       | 21   | -0.74             | -2.70             | -0.05             | 0.87              | 4.36              | -0.75             | 37   | -0.06             | 0.73              | -0.06             | 0.50              | 2.51              | -0.75             |
| 137   | 174  | -0.73             | -2.63             | 1.83              | -1.39             | -6.95             | 0.72              | 337  | 0.00              | 1.02              | 2.00              | 0.33              | 1.66              | 0.72              |
|       | 41   | -0.73             | -2.63             | 0.82              | 1.13              | 5.67              | -0.72             | 59   | 0.00              | 1.02              | 0.99              | 0.92              | 4.62              | -0.72             |
| 138   | 175  | -0.79             | -3.11             | 2.57              | -1.50             | -7.49             | 0.64              | 340  | 0.05              | 1.13              | 2.78              | 0.36              | 1.79              | 0.64              |
|       | 62   | -0.79             | -3.11             | 0.90              | 1.47              | 7.36              | -0.65             | 78   | 0.05              | 1.13              | 1.11              | 0.97              | 4.83              | -0.65             |
| 139   | 176  | -0.72             | -2.90             | 2.80              | -1.41             | -7.05             | 0.74              | 343  | -0.02             | 0.58              | 2.68              | 0.31              | 1.54              | 0.74              |
|       | 81   | -0.72             | -2.90             | 1.32              | 1.22              | 6.08              | -0.75             | 98   | -0.02             | 0.58              | 1.21              | 0.84              | 4.21              | -0.75             |
| 140   | 177  | -0.78             | -2.97             | 2.51              | -1.36             | -6.82             | 0.64              | 346  | 0.01              | 0.98              | 2.84              | 0.32              | 1.58              | 0.64              |
|       | 101  | -0.78             | -2.97             | 0.88              | 1.02              | 5.08              | -0.65             | 118  | 0.01              | 0.98              | 1.21              | 0.56              | 2.78              | -0.65             |
| 141   | 178  | -0.78             | -3.12             | 2.71              | -1.33             | -6.65             | 0.70              | 349  | 0.02              | 0.91              | 3.07              | 0.30              | 1.48              | 0.70              |
|       | 121  | -0.78             | -3.12             | 0.83              | 0.90              | 4.52              | -0.71             | 138  | 0.02              | 0.91              | 1.19              | 0.52              | 2.58              | -0.71             |
| 142   | 179  | -0.73             | -2.91             | 3.02              | -1.28             | -6.39             | 0.63              | 352  | 0.04              | 0.92              | 3.51              | 0.28              | 1.38              | 0.63              |
|       | 141  | -0.73             | -2.91             | 1.20              | 0.85              | 4.23              | -0.64             | 158  | 0.04              | 0.92              | 1.70              | 0.47              | 2.33              | -0.64             |
| 143   | 162  | -0.33             | -1.18             | 0.70              | 0.58              | 2.92              | 0.02              | 355  | 0.04              | 0.68              | 0.77              | -0.16             | -0.80             | 0.02              |
|       | 18   | -0.33             | -1.18             | 0.99              | -0.25             | -1.26             | -0.03             | 286  | 0.04              | 0.68              | 1.06              | 0.58              | 2.88              | -0.03             |
| 144   | 171  | -0.35             | -1.24             | 1.04              | -0.64             | -3.18             | -0.03             | 358  | 0.05              | 0.74              | 1.27              | 0.17              | 0.87              | -0.03             |
|       | 145  | -0.35             | -1.24             | 1.32              | 0.31              | 1.54              | 0.02              | 149  | 0.05              | 0.74              | 1.55              | -0.57             | -2.86             | 0.02              |
| 145   | 164  | -0.70             | -2.41             | 3.05              | -0.02             | -0.12             | -0.01             | 361  | 0.01              | 1.13              | 3.08              | 0.00              | 0.00              | -0.01             |
|       | 11   | -0.70             | -2.41             | 2.52              | -0.06             | -0.30             | 0.00              | 266  | 0.01              | 1.13              | 2.54              | -0.10             | -0.48             | 0.00              |
| 146   | 181  | 0.05              | -0.17             | 2.14              | -0.02             | -0.10             | 0.61              | 362  | 0.08              | -0.01             | 1.98              | -0.04             | -0.18             | 0.61              |
|       | 13   | 0.05              | -0.17             | 1.72              | -0.74             | -3.71             | -0.62             | 277  | 0.08              | -0.01             | 1.56              | 0.08              | 0.38              | -0.62             |



TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 147   | 167  | -0.73             | -2.52             | 3.25              | -0.02             | -0.10             | 0.02              | 363  | 0.01              | 1.18              | 3.29              | 0.01              | 0.05              | 0.02              |
|       | 12   | -0.73             | -2.52             | 2.69              | 0.07              | 0.35              | -0.03             | 280  | 0.01              | 1.18              | 2.73              | 0.10              | 0.51              | -0.03             |
| 148   | 183  | 0.05              | -0.17             | 2.27              | 0.02              | 0.09              | -0.62             | 364  | 0.08              | -0.01             | 2.16              | 0.03              | 0.16              | -0.62             |
|       | 17   | 0.05              | -0.17             | 1.85              | 0.74              | 3.70              | 0.61              | 282  | 0.08              | -0.01             | 1.73              | -0.07             | -0.37             | 0.61              |
| 149   | 182  | -0.12             | -0.22             | 0.55              | -0.27             | -1.36             | 0.10              | 365  | -0.04             | 0.18              | 0.86              | 0.06              | 0.32              | 0.10              |
|       | 16   | -0.12             | -0.22             | 0.74              | -0.08             | -0.39             | -0.11             | 42   | -0.04             | 0.18              | 1.05              | -0.20             | -0.99             | -0.11             |
| 150   | 185  | -0.01             | -0.07             | -0.06             | 0.00              | -0.01             | -0.02             | 368  | -0.01             | -0.06             | -0.23             | 0.00              | 0.02              | -0.02             |
|       | 15   | -0.01             | -0.07             | -0.05             | -0.05             | -0.25             | 0.01              | 63   | -0.01             | -0.06             | -0.22             | -0.08             | -0.42             | 0.01              |
| 151   | 217  | 0.08              | -0.02             | -0.13             | -1.51             | -0.42             | -0.48             | 218  | 0.08              | -0.05             | -0.19             | -1.94             | -1.18             | 0.31              |
|       | 213  | 0.60              | 0.09              | 0.02              | -2.11             | -0.54             | -0.60             | 214  | 0.60              | 0.05              | -0.04             | -3.09             | 0.20              | 0.20              |
| 152   | 218  | 0.18              | -0.03             | -0.08             | -2.00             | -1.19             | 0.02              | 219  | 0.18              | -0.05             | -0.11             | -0.77             | -0.55             | 1.10              |
|       | 214  | 0.74              | 0.08              | 0.01              | -2.98             | 0.22              | 0.58              | 215  | 0.74              | 0.06              | -0.02             | -2.40             | -1.35             | 1.67              |
| 153   | 219  | 0.24              | -0.04             | -0.03             | -0.36             | -0.47             | 2.78              | 220  | 0.22              | -0.12             | -0.03             | 1.50              | -4.47             | 1.39              |
|       | 215  | 0.79              | 0.07              | 0.04              | -3.54             | -1.58             | 1.27              | 2    | 0.77              | -0.01             | 0.03              | 10.67             | 9.11              | -0.12             |
| 154   | 3    | -0.12             | -0.23             | -0.34             | 1.41              | -0.20             | -0.52             | 221  | -0.07             | 0.00              | -0.26             | -0.83             | -0.36             | -0.78             |
|       | 216  | -0.11             | -0.23             | -0.42             | 2.61              | 1.01              | -0.20             | 217  | -0.07             | 0.00              | -0.35             | -1.24             | -0.78             | -0.46             |
| 155   | 221  | -0.19             | -0.04             | -0.21             | -0.96             | -0.39             | -0.64             | 222  | -0.19             | -0.04             | -0.21             | -0.81             | -0.71             | -0.01             |
|       | 217  | 0.11              | 0.02              | -0.21             | -1.60             | -0.85             | -0.49             | 218  | 0.11              | 0.02              | -0.21             | -1.88             | -0.89             | 0.14              |
| 156   | 222  | -0.22             | -0.05             | -0.12             | -0.86             | -0.72             | -0.12             | 223  | -0.22             | -0.07             | -0.12             | -0.36             | -1.16             | 0.51              |
|       | 218  | 0.21              | 0.04              | -0.10             | -1.95             | -0.90             | 0.39              | 219  | 0.20              | 0.01              | -0.10             | -0.92             | -1.34             | 1.02              |
| 157   | 223  | -0.24             | -0.07             | -0.03             | -0.17             | -1.12             | 0.41              | 4    | -0.24             | -0.09             | -0.04             | 0.06              | -0.87             | -0.32             |
|       | 219  | 0.26              | 0.02              | -0.02             | -0.51             | -1.25             | 1.38              | 220  | 0.26              | 0.01              | -0.04             | 1.75              | -3.22             | 0.64              |
| 158   | 227  | 0.18              | -0.05             | 0.12              | -0.77             | -0.56             | -1.11             | 228  | 0.18              | -0.03             | 0.08              | -2.04             | -1.21             | -0.01             |
|       | 224  | 0.75              | 0.06              | 0.03              | -2.41             | -1.35             | -1.67             | 225  | 0.75              | 0.08              | -0.01             | -3.02             | 0.22              | -0.58             |
| 159   | 228  | 0.08              | -0.05             | 0.20              | -1.97             | -1.20             | -0.31             | 229  | 0.08              | -0.02             | 0.14              | -1.55             | -0.43             | 0.49              |
|       | 225  | 0.60              | 0.05              | 0.04              | -3.13             | 0.20              | -0.20             | 226  | 0.61              | 0.09              | -0.02             | -2.16             | -0.55             | 0.60              |
| 160   | 229  | -0.06             | -0.08             | 0.29              | -1.20             | -0.36             | 1.05              | 230  | -0.05             | -0.04             | 0.19              | 2.31              | -0.79             | -0.17             |
|       | 226  | 0.32              | 0.00              | 0.13              | -3.06             | -0.73             | 0.81              | 5    | 0.33              | 0.04              | 0.03              | 7.95              | 3.14              | -0.41             |
| 161   | 4    | -0.24             | -0.09             | 0.05              | 0.07              | -0.87             | 0.31              | 231  | -0.24             | -0.07             | 0.03              | -0.18             | -1.13             | -0.41             |
|       | 220  | 0.26              | 0.01              | 0.04              | 1.74              | -3.22             | -0.65             | 227  | 0.26              | 0.03              | 0.02              | -0.51             | -1.26             | -1.37             |
| 162   | 231  | -0.22             | -0.07             | 0.13              | -0.36             | -1.17             | -0.51             | 232  | -0.22             | -0.05             | 0.12              | -0.88             | -0.74             | 0.12              |
|       | 227  | 0.20              | 0.01              | 0.11              | -0.93             | -1.34             | -1.02             | 228  | 0.21              | 0.04              | 0.10              | -1.98             | -0.92             | -0.39             |
| 163   | 232  | -0.19             | -0.05             | 0.23              | -0.83             | -0.73             | 0.01              | 233  | -0.19             | -0.04             | 0.22              | -0.99             | -0.40             | 0.65              |
|       | 228  | 0.11              | 0.01              | 0.22              | -1.91             | -0.90             | -0.14             | 229  | 0.11              | 0.02              | 0.22              | -1.64             | -0.87             | 0.50              |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 164   | 233  | -0.07             | -0.01             | 0.28              | -0.86             | -0.38             | 0.79              | 6    | -0.12             | -0.23             | 0.35              | 1.44              | -0.22             | 0.54              |
|       | 229  | -0.07             | -0.01             | 0.36              | -1.28             | -0.80             | 0.46              | 230  | -0.12             | -0.23             | 0.44              | 2.68              | 1.06              | 0.21              |
| 165   | 235  | -0.47             | -0.08             | 0.08              | -0.06             | -0.01             | -0.21             | 236  | -0.48             | -0.09             | 0.08              | -0.30             | 0.08              | 0.12              |
|       | 231  | -0.21             | -0.03             | 0.13              | -0.33             | -0.98             | -0.36             | 232  | -0.21             | -0.03             | 0.13              | -0.86             | -0.66             | -0.03             |
| 166   | 236  | -0.34             | -0.05             | 0.14              | -0.27             | 0.09              | 0.09              | 237  | -0.35             | -0.10             | 0.17              | -0.43             | 0.11              | 0.67              |
|       | 232  | -0.19             | -0.02             | 0.24              | -0.82             | -0.66             | 0.07              | 233  | -0.20             | -0.07             | 0.27              | -1.05             | -0.66             | 0.65              |
| 167   | 237  | -0.15             | -0.04             | 0.23              | -0.38             | 0.12              | 0.82              | 238  | -0.18             | -0.18             | 0.21              | 0.54              | -0.47             | 0.51              |
|       | 233  | -0.08             | -0.03             | 0.33              | -0.92             | -0.64             | 0.79              | 6    | -0.10             | -0.16             | 0.31              | 1.64              | 0.76              | 0.48              |
| 168   | 7    | -0.87             | -0.09             | 0.00              | 0.18              | 1.36              | 0.02              | 239  | -0.88             | -0.10             | 0.00              | 0.27              | 1.53              | -0.02             |
|       | 234  | -0.52             | -0.02             | 0.03              | -0.02             | -0.13             | -0.05             | 235  | -0.52             | -0.03             | 0.04              | -0.07             | -0.02             | -0.10             |
| 169   | 239  | -0.79             | -0.08             | 0.00              | 0.18              | 1.51              | -0.04             | 240  | -0.80             | -0.12             | 0.00              | 0.37              | 1.78              | 0.14              |
|       | 235  | -0.46             | -0.02             | 0.10              | -0.06             | -0.01             | -0.15             | 236  | -0.47             | -0.05             | 0.10              | -0.29             | 0.13              | 0.03              |
| 170   | 240  | -0.57             | -0.07             | 0.02              | 0.21              | 1.75              | 0.02              | 241  | -0.58             | -0.12             | 0.02              | 0.37              | 1.50              | 0.46              |
|       | 236  | -0.33             | -0.02             | 0.17              | -0.26             | 0.14              | 0.16              | 237  | -0.34             | -0.08             | 0.16              | -0.49             | -0.19             | 0.60              |
| 171   | 241  | -0.20             | -0.01             | 0.08              | -0.01             | 1.43              | 0.45              | 8    | -0.22             | -0.11             | 0.01              | 0.06              | -0.58             | 0.21              |
|       | 237  | -0.14             | 0.00              | 0.22              | -0.44             | -0.18             | 0.82              | 238  | -0.16             | -0.10             | 0.16              | 0.76              | 0.64              | 0.59              |
| 172   | 243  | -0.34             | -0.10             | -0.17             | -0.41             | 0.12              | -0.66             | 244  | -0.33             | -0.05             | -0.13             | -0.26             | 0.09              | -0.09             |
|       | 221  | -0.19             | -0.07             | -0.26             | -1.01             | -0.63             | -0.63             | 222  | -0.18             | -0.02             | -0.23             | -0.80             | -0.64             | -0.07             |
| 173   | 244  | -0.47             | -0.08             | -0.07             | -0.29             | 0.09              | -0.12             | 245  | -0.47             | -0.08             | -0.07             | -0.05             | -0.01             | 0.20              |
|       | 222  | -0.21             | -0.03             | -0.13             | -0.84             | -0.65             | 0.03              | 223  | -0.21             | -0.02             | -0.13             | -0.32             | -0.97             | 0.35              |
| 174   | 245  | -0.53             | -0.09             | -0.01             | -0.07             | -0.02             | 0.16              | 234  | -0.53             | -0.09             | -0.03             | -0.02             | -0.11             | -0.07             |
|       | 223  | -0.22             | -0.03             | -0.03             | -0.13             | -0.94             | 0.33              | 4    | -0.22             | -0.02             | -0.05             | -0.06             | -1.47             | 0.09              |
| 175   | 9    | -0.21             | -0.11             | -0.01             | 0.06              | -0.57             | -0.21             | 246  | -0.19             | -0.01             | -0.07             | -0.02             | 1.38              | -0.44             |
|       | 242  | -0.16             | -0.10             | -0.15             | 0.75              | 0.63              | -0.57             | 243  | -0.14             | 0.00              | -0.20             | -0.42             | -0.16             | -0.80             |
| 176   | 246  | -0.57             | -0.12             | -0.02             | 0.36              | 1.46              | -0.45             | 247  | -0.56             | -0.07             | -0.01             | 0.20              | 1.71              | -0.02             |
|       | 243  | -0.34             | -0.07             | -0.16             | -0.47             | -0.17             | -0.59             | 244  | -0.33             | -0.02             | -0.15             | -0.25             | 0.14              | -0.16             |
| 177   | 247  | -0.79             | -0.12             | 0.00              | 0.36              | 1.74              | -0.14             | 248  | -0.78             | -0.08             | 0.01              | 0.18              | 1.49              | 0.03              |
|       | 244  | -0.46             | -0.05             | -0.09             | -0.28             | 0.14              | -0.04             | 245  | -0.45             | -0.01             | -0.09             | -0.05             | -0.01             | 0.14              |
| 178   | 248  | -0.87             | -0.10             | 0.00              | 0.26              | 1.51              | 0.02              | 7    | -0.87             | -0.09             | 0.01              | 0.18              | 1.36              | -0.02             |
|       | 245  | -0.52             | -0.03             | -0.03             | -0.07             | -0.02             | 0.09              | 234  | -0.51             | -0.02             | -0.02             | -0.02             | -0.13             | 0.04              |
| 179   | 254  | 0.18              | 0.11              | 0.01              | 0.05              | 0.40              | -0.16             | 255  | 0.13              | -0.18             | -0.76             | 0.04              | -0.46             | 0.04              |
|       | 249  | 0.68              | 0.21              | 0.48              | -0.03             | -0.50             | -0.24             | 250  | 0.63              | -0.08             | -0.29             | -0.08             | 0.68              | -0.04             |
| 180   | 255  | 0.74              | 0.60              | -0.54             | 0.06              | -0.45             | -0.18             | 256  | 0.27              | -1.75             | -0.26             | -0.50             | -0.43             | -0.23             |
|       | 250  | 1.42              | 0.73              | 0.39              | -0.15             | 0.67              | 0.55              | 2    | 0.95              | -1.61             | 0.66              | -0.46             | -2.77             | 0.49              |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 181   | 256  | 0.27  | -1.76 | 0.26  | -0.50 | -0.43 | 0.24  | 257  | 0.74  | 0.60  | 0.53  | 0.07  | -0.46 | 0.18  |
|       | 2    | 0.93  | -1.63 | -0.67 | -0.44 | -2.77 | -0.48 | 251  | 1.40  | 0.73  | -0.40 | -0.15 | 0.67  | -0.55 |
| 182   | 257  | 0.13  | -0.17 | 0.76  | 0.04  | -0.46 | -0.04 | 258  | 0.18  | 0.10  | -0.02 | 0.06  | 0.42  | 0.16  |
|       | 251  | 0.63  | -0.07 | 0.30  | -0.08 | 0.69  | 0.04  | 252  | 0.68  | 0.21  | -0.48 | -0.04 | -0.51 | 0.24  |
| 183   | 258  | 0.25  | 0.04  | -0.07 | 0.10  | 0.42  | 0.15  | 259  | 0.11  | -0.67 | -0.19 | -0.23 | -1.39 | 0.16  |
|       | 252  | -0.06 | -0.02 | 0.69  | -0.02 | -0.51 | 0.09  | 5    | -0.20 | -0.74 | 0.57  | 0.29  | 1.58  | 0.09  |
| 184   | 11   | -0.23 | -0.86 | 0.03  | -0.71 | -3.53 | 0.10  | 260  | 0.02  | 0.38  | -0.15 | 0.16  | 0.80  | 0.05  |
|       | 253  | -0.10 | -0.83 | -0.13 | 0.48  | 2.17  | -0.25 | 254  | 0.15  | 0.40  | -0.31 | -0.09 | -0.56 | -0.29 |
| 185   | 260  | 0.07  | -0.15 | -0.61 | 0.16  | 0.80  | -0.14 | 261  | 0.11  | 0.07  | -0.15 | -0.02 | -0.09 | -0.23 |
|       | 254  | 0.14  | -0.14 | -0.36 | -0.14 | -0.56 | -0.05 | 255  | 0.18  | 0.08  | 0.10  | 0.12  | -0.09 | -0.13 |
| 186   | 261  | 0.06  | 0.69  | -0.66 | -0.02 | -0.09 | -0.37 | 165  | -0.51 | -2.11 | -1.24 | -0.09 | -0.46 | -0.17 |
|       | 255  | 0.80  | 0.83  | 0.32  | 0.14  | -0.09 | -0.18 | 256  | 0.24  | -1.97 | -0.26 | -0.56 | -0.71 | 0.02  |
| 187   | 165  | -0.50 | -2.12 | 1.24  | -0.09 | -0.46 | 0.17  | 262  | 0.06  | 0.68  | 0.65  | -0.02 | -0.10 | 0.37  |
|       | 256  | 0.24  | -1.97 | 0.26  | -0.56 | -0.72 | -0.02 | 257  | 0.80  | 0.83  | -0.33 | 0.14  | -0.08 | 0.18  |
| 188   | 262  | 0.11  | 0.07  | 0.14  | -0.02 | -0.10 | 0.23  | 263  | 0.07  | -0.16 | 0.60  | 0.17  | 0.85  | 0.15  |
|       | 257  | 0.18  | 0.08  | -0.10 | 0.12  | -0.09 | 0.13  | 258  | 0.13  | -0.15 | 0.35  | -0.15 | -0.60 | 0.05  |
| 189   | 263  | 0.02  | 0.41  | 0.17  | 0.17  | 0.85  | -0.06 | 12   | -0.25 | -0.90 | -0.03 | -0.75 | -3.76 | -0.11 |
|       | 258  | 0.14  | 0.43  | 0.31  | -0.11 | -0.59 | 0.31  | 259  | -0.12 | -0.87 | 0.11  | 0.52  | 2.31  | 0.26  |
| 190   | 264  | -0.18 | -0.45 | 0.59  | 0.34  | 0.75  | -0.49 | 265  | -0.11 | -0.06 | 0.62  | 0.38  | 0.72  | -0.22 |
|       | 216  | -0.33 | -0.48 | 0.06  | 0.59  | 3.29  | 0.06  | 3    | -0.25 | -0.09 | 0.09  | 0.32  | 1.34  | 0.33  |
| 191   | 11   | 0.02  | -0.71 | 0.84  | -0.20 | -0.99 | -0.04 | 266  | 0.08  | -0.41 | 1.35  | -0.27 | -1.33 | 0.09  |
|       | 253  | 0.14  | -0.69 | -0.27 | -0.41 | 0.57  | 0.07  | 264  | 0.20  | -0.39 | 0.25  | 0.46  | 0.71  | 0.19  |
| 192   | 266  | 0.02  | -0.18 | 0.50  | -0.27 | -1.33 | 0.39  | 13   | 0.07  | 0.11  | 0.63  | 0.27  | 1.36  | 0.13  |
|       | 264  | -0.06 | -0.20 | 0.20  | 0.33  | 0.68  | -0.27 | 265  | -0.01 | 0.09  | 0.33  | 0.32  | 0.43  | -0.53 |
| 193   | 268  | -0.21 | -0.12 | 0.11  | 0.10  | -0.10 | 0.09  | 269  | -0.20 | -0.08 | 0.19  | -0.03 | 0.00  | 0.08  |
|       | 241  | -0.54 | -0.19 | -0.03 | -0.11 | -0.81 | 0.21  | 240  | -0.54 | -0.15 | 0.05  | -0.23 | -1.36 | 0.20  |
| 194   | 269  | -0.32 | -0.11 | 0.03  | -0.03 | 0.00  | 0.12  | 270  | -0.31 | -0.06 | 0.11  | 0.01  | -0.14 | 0.04  |
|       | 240  | -0.74 | -0.20 | -0.06 | -0.16 | -1.35 | 0.11  | 239  | -0.73 | -0.14 | 0.01  | -0.20 | -1.17 | 0.03  |
| 195   | 270  | -0.38 | -0.07 | -0.01 | -0.01 | -0.14 | 0.06  | 271  | -0.37 | -0.05 | 0.04  | 0.03  | -0.13 | 0.01  |
|       | 239  | -0.81 | -0.16 | -0.04 | -0.12 | -1.16 | 0.03  | 7    | -0.81 | -0.14 | 0.01  | -0.17 | -1.07 | -0.02 |
| 196   | 14   | 0.11  | -0.02 | 0.33  | 0.40  | 1.98  | 0.25  | 65   | 0.08  | -0.15 | 0.67  | 0.20  | 0.98  | 0.18  |
|       | 267  | 0.09  | -0.02 | -0.08 | -0.23 | -1.27 | 0.11  | 268  | 0.06  | -0.16 | 0.25  | 0.15  | 0.25  | 0.03  |
| 197   | 65   | 0.02  | 0.03  | 0.16  | 0.20  | 0.98  | 0.04  | 64   | 0.00  | -0.08 | 0.22  | 0.20  | 0.99  | -0.01 |
|       | 268  | -0.18 | -0.01 | 0.16  | 0.17  | 0.26  | 0.13  | 269  | -0.20 | -0.12 | 0.23  | -0.05 | -0.09 | 0.07  |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 198   | 64   | -0.01             | -0.05             | 0.06              | 0.20              | 0.99              | 0.03              | 63   | -0.01             | -0.04             | 0.10              | 0.18              | 0.90              | 0.03              |
|       | 269  | -0.34             | -0.11             | 0.07              | -0.05             | -0.09             | 0.07              | 270  | -0.33             | -0.10             | 0.11              | 0.02              | -0.11             | 0.07              |
| 199   | 63   | -0.01             | -0.04             | 0.00              | 0.18              | 0.90              | 0.04              | 15   | -0.01             | -0.04             | 0.04              | 0.17              | 0.87              | 0.00              |
|       | 270  | -0.40             | -0.12             | -0.01             | -0.01             | -0.12             | 0.05              | 271  | -0.39             | -0.11             | 0.04              | 0.03              | -0.13             | 0.01              |
| 200   | 272  | -0.31             | -0.06             | -0.12             | 0.01              | -0.14             | -0.04             | 273  | -0.32             | -0.11             | -0.04             | -0.03             | 0.00              | -0.12             |
|       | 248  | -0.72             | -0.14             | -0.02             | -0.16             | -1.15             | -0.03             | 247  | -0.73             | -0.19             | 0.05              | -0.20             | -1.33             | -0.11             |
| 201   | 273  | -0.20             | -0.08             | -0.19             | -0.04             | 0.00              | -0.08             | 274  | -0.20             | -0.12             | -0.11             | 0.10              | -0.10             | -0.09             |
|       | 247  | -0.52             | -0.15             | -0.06             | -0.19             | -1.32             | -0.20             | 246  | -0.53             | -0.18             | 0.02              | -0.13             | -0.79             | -0.21             |
| 202   | 274  | -0.01             | -0.11             | -0.20             | 0.07              | -0.10             | -0.01             | 275  | 0.03              | 0.10              | -0.22             | 0.12              | 0.47              | 0.08              |
|       | 246  | -0.20             | -0.15             | -0.05             | -0.06             | -0.78             | -0.27             | 9    | -0.16             | 0.07              | -0.07             | -0.22             | -0.49             | -0.18             |
| 203   | 15   | -0.01             | -0.04             | -0.05             | 0.17              | 0.87              | 0.00              | 44   | -0.01             | -0.04             | -0.01             | 0.18              | 0.89              | -0.04             |
|       | 271  | -0.39             | -0.11             | -0.05             | 0.02              | -0.13             | -0.01             | 272  | -0.39             | -0.12             | -0.01             | 0.00              | -0.12             | -0.05             |
| 204   | 44   | -0.01             | -0.04             | -0.11             | 0.18              | 0.89              | -0.03             | 43   | -0.01             | -0.05             | -0.07             | 0.20              | 0.98              | -0.04             |
|       | 272  | -0.33             | -0.10             | -0.12             | 0.01              | -0.11             | -0.06             | 273  | -0.33             | -0.11             | -0.08             | -0.05             | -0.10             | -0.07             |
| 205   | 43   | 0.00              | -0.08             | -0.23             | 0.20              | 0.98              | 0.01              | 42   | 0.02              | 0.02              | -0.16             | 0.18              | 0.89              | -0.04             |
|       | 273  | -0.20             | -0.12             | -0.23             | -0.06             | -0.10             | -0.07             | 274  | -0.18             | -0.01             | -0.16             | 0.18              | 0.30              | -0.12             |
| 206   | 42   | 0.08              | -0.15             | -0.66             | 0.18              | 0.89              | -0.14             | 16   | 0.11              | -0.02             | -0.33             | 0.45              | 2.27              | -0.22             |
|       | 274  | 0.06              | -0.15             | -0.25             | 0.15              | 0.29              | -0.06             | 275  | 0.09              | -0.02             | 0.08              | -0.25             | -1.39             | -0.13             |
| 207   | 276  | 0.01              | -0.13             | 0.20              | 0.03              | 0.30              | -0.07             | 275  | 0.05              | 0.09              | 0.27              | -0.21             | 0.55              | -0.22             |
|       | 242  | -0.04             | -0.14             | -0.07             | 0.33              | 0.76              | 0.30              | 9    | 0.00              | 0.08              | 0.01              | -0.18             | -0.39             | 0.15              |
| 208   | 13   | -0.04             | 0.27              | 0.17              | 0.27              | 1.36              | -0.60             | 277  | -0.11             | -0.07             | 0.00              | -0.14             | -0.68             | -0.68             |
|       | 265  | -0.15             | 0.25              | 0.09              | 0.42              | 0.45              | 0.13              | 276  | -0.22             | -0.10             | -0.09             | 0.07              | 0.82              | 0.05              |
| 209   | 277  | -0.15             | -0.05             | 0.49              | -0.14             | -0.68             | -0.19             | 16   | -0.17             | -0.18             | 0.43              | 0.35              | 1.77              | -0.06             |
|       | 276  | -0.19             | -0.06             | -0.21             | 0.14              | 0.84              | -0.43             | 275  | -0.21             | -0.19             | -0.27             | -0.54             | -1.14             | -0.31             |
| 210   | 278  | -0.19             | -0.47             | 0.62              | -0.36             | -0.77             | 0.50              | 279  | -0.11             | -0.07             | 0.66              | -0.37             | -0.73             | 0.22              |
|       | 230  | -0.33             | -0.49             | 0.06              | -0.57             | -3.35             | -0.06             | 6    | -0.25             | -0.10             | 0.10              | -0.36             | -1.39             | -0.33             |
| 211   | 12   | 0.03              | -0.76             | 0.89              | 0.22              | 1.11              | 0.03              | 280  | 0.09              | -0.43             | 1.43              | 0.27              | 1.34              | -0.10             |
|       | 259  | 0.15              | -0.73             | -0.30             | 0.40              | -0.63             | -0.07             | 278  | 0.22              | -0.41             | 0.24              | -0.46             | -0.69             | -0.19             |
| 212   | 280  | 0.02              | -0.18             | 0.53              | 0.27              | 1.34              | -0.39             | 17   | 0.08              | 0.11              | 0.66              | -0.27             | -1.33             | -0.13             |
|       | 278  | -0.06             | -0.20             | 0.20              | -0.34             | -0.67             | 0.27              | 279  | 0.00              | 0.09              | 0.33              | -0.32             | -0.44             | 0.54              |
| 213   | 281  | 0.00              | -0.13             | 0.21              | -0.04             | -0.30             | 0.07              | 267  | 0.04              | 0.09              | 0.28              | 0.21              | -0.56             | 0.22              |
|       | 238  | -0.04             | -0.14             | -0.06             | -0.31             | -0.78             | -0.30             | 8    | 0.00              | 0.09              | 0.00              | 0.15              | 0.40              | -0.15             |
| 214   | 17   | -0.04             | 0.28              | 0.16              | -0.27             | -1.33             | 0.59              | 282  | -0.11             | -0.09             | 0.01              | 0.13              | 0.67              | 0.68              |
|       | 279  | -0.14             | 0.26              | 0.07              | -0.43             | -0.47             | -0.13             | 281  | -0.21             | -0.10             | -0.08             | -0.06             | -0.82             | -0.04             |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 215   | 282  | -0.11             | -0.09             | 0.42              | 0.13              | 0.67              | 0.19              | 14   | -0.11             | -0.12             | 0.46              | -0.36             | -1.78             | 0.07              |
|       | 281  | -0.16             | -0.10             | -0.23             | -0.15             | -0.84             | 0.43              | 267  | -0.16             | -0.13             | -0.19             | 0.55              | 1.15              | 0.31              |
| 216   | 287  | 0.00              | 0.00              | 0.00              | -0.92             | -1.23             | 0.94              | 288  | 0.00              | 0.00              | 0.00              | -1.48             | -2.05             | 0.66              |
|       | 283  | 0.00              | 0.00              | 0.00              | 0.29              | 1.71              | 0.50              | 284  | 0.00              | 0.00              | 0.00              | 0.23              | 2.93              | 0.22              |
| 217   | 288  | 0.00              | 0.00              | 0.00              | -1.37             | -2.03             | 0.58              | 289  | 0.00              | 0.00              | 0.00              | -1.03             | -2.22             | 0.38              |
|       | 284  | 0.00              | 0.00              | 0.00              | -0.11             | 2.87              | 0.32              | 285  | 0.00              | 0.00              | 0.00              | 0.81              | 3.61              | 0.12              |
| 218   | 289  | 0.00              | 0.00              | 0.00              | -0.72             | -2.15             | 0.45              | 25   | 0.00              | 0.00              | 0.00              | -0.95             | -2.94             | 0.15              |
|       | 285  | 0.00              | 0.00              | 0.00              | -0.25             | 3.40              | 0.21              | 19   | 0.00              | 0.00              | 0.00              | 2.74              | 5.02              | -0.09             |
| 219   | 290  | 0.00              | 0.00              | 0.00              | 4.17              | 0.88              | -0.39             | 291  | 0.00              | 0.00              | 0.00              | -0.63             | -0.25             | -0.27             |
|       | 286  | 0.00              | 0.00              | 0.00              | 3.71              | 0.53              | 0.49              | 287  | 0.00              | 0.00              | 0.00              | -1.02             | -1.30             | 0.61              |
| 220   | 291  | 0.00              | 0.00              | 0.00              | -0.50             | -0.22             | -0.12             | 292  | 0.00              | 0.00              | 0.00              | -1.34             | -0.57             | -0.11             |
|       | 287  | 0.00              | 0.00              | 0.00              | -0.93             | -1.29             | 0.48              | 288  | 0.00              | 0.00              | 0.00              | -1.46             | -1.93             | 0.49              |
| 221   | 292  | 0.00              | 0.00              | 0.00              | -1.25             | -0.55             | -0.02             | 293  | 0.00              | 0.00              | 0.00              | -0.80             | -0.61             | -0.08             |
|       | 288  | 0.00              | 0.00              | 0.00              | -1.35             | -1.91             | 0.37              | 289  | 0.00              | 0.00              | 0.00              | -1.02             | -2.17             | 0.31              |
| 222   | 293  | 0.00              | 0.00              | 0.00              | -0.86             | -0.62             | 0.09              | 29   | 0.00              | 0.00              | 0.00              | -0.40             | -0.62             | 0.02              |
|       | 289  | 0.00              | 0.00              | 0.00              | -0.71             | -2.11             | 0.11              | 25   | 0.00              | 0.00              | 0.00              | -0.77             | -2.05             | 0.04              |
| 223   | 294  | 0.00              | 0.00              | 0.00              | 3.20              | 1.55              | -0.57             | 295  | 0.00              | 0.00              | 0.00              | -1.02             | -1.35             | -0.84             |
|       | 290  | 0.00              | 0.00              | 0.00              | 3.95              | -0.22             | 0.33              | 291  | 0.00              | 0.00              | 0.00              | -0.61             | -0.15             | 0.06              |
| 224   | 295  | 0.00              | 0.00              | 0.00              | -0.73             | -1.29             | -0.64             | 296  | 0.00              | 0.00              | 0.00              | -1.25             | -1.73             | -0.57             |
|       | 291  | 0.00              | 0.00              | 0.00              | -0.48             | -0.12             | -0.10             | 292  | 0.00              | 0.00              | 0.00              | -1.35             | -0.61             | -0.03             |
| 225   | 296  | 0.00              | 0.00              | 0.00              | -1.08             | -1.70             | -0.51             | 297  | 0.00              | 0.00              | 0.00              | -0.90             | -2.03             | -0.39             |
|       | 292  | 0.00              | 0.00              | 0.00              | -1.26             | -0.59             | -0.06             | 293  | 0.00              | 0.00              | 0.00              | -0.81             | -0.68             | 0.06              |
| 226   | 297  | 0.00              | 0.00              | 0.00              | -0.57             | -1.96             | -0.32             | 33   | 0.00              | 0.00              | 0.00              | -0.64             | -2.35             | -0.18             |
|       | 293  | 0.00              | 0.00              | 0.00              | -0.87             | -0.69             | 0.01              | 29   | 0.00              | 0.00              | 0.00              | -0.39             | -0.62             | 0.15              |
| 227   | 20   | 0.00              | 0.00              | 0.00              | -0.24             | 2.89              | 0.00              | 298  | 0.00              | 0.00              | 0.00              | 0.93              | 2.55              | -0.53             |
|       | 294  | 0.00              | 0.00              | 0.00              | 2.52              | -1.84             | -0.60             | 295  | 0.00              | 0.00              | 0.00              | -0.99             | -1.25             | -1.13             |
| 228   | 298  | 0.00              | 0.00              | 0.00              | 0.22              | 2.40              | -0.42             | 299  | 0.00              | 0.00              | 0.00              | 0.57              | 3.63              | -0.22             |
|       | 295  | 0.00              | 0.00              | 0.00              | -0.71             | -1.19             | -0.94             | 296  | 0.00              | 0.00              | 0.00              | -1.26             | -1.83             | -0.74             |
| 229   | 299  | 0.00              | 0.00              | 0.00              | -0.07             | 3.50              | -0.32             | 300  | 0.00              | 0.00              | 0.00              | 1.13              | 4.38              | -0.16             |
|       | 296  | 0.00              | 0.00              | 0.00              | -1.10             | -1.79             | -0.67             | 297  | 0.00              | 0.00              | 0.00              | -0.89             | -1.97             | -0.52             |
| 230   | 300  | 0.00              | 0.00              | 0.00              | -0.03             | 4.15              | -0.11             | 21   | 0.00              | 0.00              | 0.00              | 2.82              | 6.06              | 0.12              |
|       | 297  | 0.00              | 0.00              | 0.00              | -0.56             | -1.90             | -0.69             | 33   | 0.00              | 0.00              | 0.00              | -0.69             | -2.57             | -0.46             |
| 231   | 301  | 0.07              | -0.12             | 0.54              | 0.02              | 0.08              | -0.06             | 302  | 0.03              | -0.31             | 0.37              | 0.05              | 0.23              | -0.06             |
|       | 283  | 0.07              | -0.12             | 0.26              | -0.17             | -0.86             | 0.06              | 284  | 0.03              | -0.31             | 0.09              | -0.30             | -1.51             | 0.06              |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 232   | 302  | 0.06  | -0.49 | -0.82 | 0.05  | 0.23  | -0.17 | 303  | 0.14  | -0.12 | -0.96 | -0.23 | -1.17 | -0.17 |
|       | 284  | 0.06  | -0.49 | -0.15 | -0.30 | -1.51 | 0.16  | 285  | 0.14  | -0.12 | -0.29 | -0.30 | -1.52 | 0.16  |
| 233   | 303  | -0.02 | 0.81  | -2.41 | -0.23 | -1.17 | 0.53  | 163  | -0.74 | -2.78 | -2.04 | 1.12  | 5.60  | 0.53  |
|       | 285  | -0.02 | 0.81  | -0.88 | -0.30 | -1.52 | -0.54 | 19   | -0.74 | -2.78 | -0.51 | -0.76 | -3.79 | -0.54 |
| 234   | 304  | 0.16  | -0.04 | 0.94  | -0.24 | -1.20 | 0.16  | 305  | 0.07  | -0.50 | 0.85  | 0.08  | 0.39  | 0.16  |
|       | 22   | 0.16  | -0.04 | 0.31  | -0.13 | -0.65 | -0.17 | 23   | 0.07  | -0.50 | 0.22  | -0.19 | -0.94 | -0.17 |
| 235   | 305  | 0.05  | -0.44 | -0.36 | 0.08  | 0.39  | 0.02  | 306  | 0.13  | -0.06 | -0.60 | -0.14 | -0.68 | 0.02  |
|       | 23   | 0.05  | -0.44 | 0.01  | -0.19 | -0.94 | -0.03 | 24   | 0.13  | -0.06 | -0.23 | 0.06  | 0.32  | -0.03 |
| 236   | 306  | 0.01  | 0.48  | -1.76 | -0.14 | -0.68 | 0.24  | 164  | -0.57 | -2.43 | -2.03 | 0.57  | 2.84  | 0.24  |
|       | 24   | 0.01  | 0.48  | -0.35 | 0.06  | 0.32  | -0.25 | 11   | -0.57 | -2.43 | -0.62 | -0.25 | -1.24 | -0.25 |
| 237   | 310  | 0.09  | -0.15 | -0.56 | -0.15 | -0.74 | 0.05  | 311  | 0.15  | 0.13  | -0.55 | 0.10  | 0.48  | 0.05  |
|       | 307  | 0.09  | -0.15 | -1.19 | 0.08  | 0.39  | -0.06 | 308  | 0.15  | 0.13  | -1.18 | -0.05 | -0.23 | -0.06 |
| 238   | 311  | 0.16  | -0.31 | -1.45 | 0.10  | 0.48  | -0.12 | 312  | 0.24  | 0.08  | -1.44 | -0.28 | -1.41 | -0.12 |
|       | 308  | 0.16  | -0.31 | -0.30 | -0.05 | -0.23 | 0.11  | 309  | 0.24  | 0.08  | -0.29 | 0.09  | 0.45  | 0.11  |
| 239   | 312  | 0.18  | 2.05  | -2.08 | -0.28 | -1.41 | 0.55  | 166  | -1.08 | -4.26 | -2.07 | 1.20  | 6.01  | 0.55  |
|       | 309  | 0.18  | 2.05  | 0.32  | 0.09  | 0.45  | -0.56 | 165  | -1.08 | -4.26 | 0.33  | -0.23 | -1.15 | -0.56 |
| 240   | 316  | 0.24  | 0.08  | 1.49  | -0.28 | -1.41 | 0.11  | 317  | 0.16  | -0.30 | 1.50  | 0.10  | 0.49  | 0.11  |
|       | 313  | 0.24  | 0.08  | 0.33  | 0.09  | 0.45  | -0.12 | 314  | 0.16  | -0.30 | 0.34  | -0.05 | -0.24 | -0.12 |
| 241   | 317  | 0.15  | 0.10  | 0.58  | 0.10  | 0.49  | -0.06 | 318  | 0.11  | -0.12 | 0.59  | -0.16 | -0.79 | -0.06 |
|       | 314  | 0.15  | 0.10  | 1.24  | -0.05 | -0.24 | 0.05  | 315  | 0.11  | -0.12 | 1.25  | 0.09  | 0.43  | 0.05  |
| 242   | 318  | 0.07  | 1.08  | 0.33  | -0.16 | -0.79 | 0.19  | 167  | -0.57 | -2.13 | 0.34  | 0.61  | 3.03  | 0.19  |
|       | 315  | 0.07  | 1.08  | 1.49  | 0.09  | 0.43  | -0.20 | 12   | -0.57 | -2.13 | 1.50  | -0.27 | -1.37 | -0.20 |
| 243   | 319  | 0.11  | -0.18 | 0.58  | -0.15 | -0.77 | -0.03 | 320  | 0.06  | -0.39 | 0.25  | 0.10  | 0.48  | -0.03 |
|       | 82   | 0.11  | -0.18 | 0.11  | 0.07  | 0.34  | 0.03  | 83   | 0.06  | -0.39 | -0.22 | -0.23 | -1.17 | 0.03  |
| 244   | 320  | 0.08  | -0.53 | -1.26 | 0.10  | 0.48  | -0.16 | 321  | 0.16  | -0.12 | -1.38 | -0.29 | -1.44 | -0.16 |
|       | 83   | 0.08  | -0.53 | -0.40 | -0.23 | -1.17 | 0.16  | 84   | 0.16  | -0.12 | -0.51 | -0.14 | -0.70 | 0.16  |
| 245   | 321  | 0.03  | 1.00  | -3.11 | -0.29 | -1.44 | 0.47  | 168  | -0.81 | -3.21 | -2.64 | 1.26  | 6.30  | 0.47  |
|       | 84   | 0.03  | 1.00  | -1.15 | -0.14 | -0.70 | -0.48 | 85   | -0.81 | -3.21 | -0.69 | -0.84 | -4.18 | -0.48 |
| 246   | 322  | 0.12  | -0.29 | 1.02  | -0.29 | -1.47 | 0.15  | 323  | 0.09  | -0.41 | 0.89  | 0.12  | 0.61  | 0.15  |
|       | 102  | 0.12  | -0.29 | 0.20  | -0.37 | -1.83 | -0.15 | 103  | 0.09  | -0.41 | 0.07  | -0.50 | -2.48 | -0.15 |
| 247   | 323  | 0.09  | -0.40 | -0.88 | 0.12  | 0.61  | -0.15 | 324  | 0.12  | -0.28 | -1.03 | -0.28 | -1.41 | -0.15 |
|       | 103  | 0.09  | -0.40 | -0.11 | -0.50 | -2.48 | 0.15  | 104  | 0.12  | -0.28 | -0.26 | -0.38 | -1.88 | 0.15  |
| 248   | 324  | 0.01  | 0.99  | -2.55 | -0.28 | -1.41 | 0.61  | 169  | -0.78 | -2.96 | -2.33 | 1.22  | 6.11  | 0.61  |
|       | 104  | 0.01  | 0.99  | -1.00 | -0.38 | -1.88 | -0.62 | 105  | -0.78 | -2.96 | -0.78 | -0.72 | -3.60 | -0.62 |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 249   | 325  | 0.16  | -0.14 | 1.24  | -0.27 | -1.36 | 0.14  | 326  | 0.09  | -0.48 | 1.16  | 0.11  | 0.55  | 0.14  |
|       | 122  | 0.16  | -0.14 | 0.48  | -0.38 | -1.88 | -0.15 | 123  | 0.09  | -0.48 | 0.40  | -0.50 | -2.51 | -0.15 |
| 250   | 326  | 0.08  | -0.43 | -0.45 | 0.11  | 0.55  | -0.14 | 327  | 0.13  | -0.19 | -0.60 | -0.26 | -1.32 | -0.14 |
|       | 123  | 0.08  | -0.43 | 0.21  | -0.50 | -2.51 | 0.13  | 124  | 0.13  | -0.19 | 0.06  | -0.37 | -1.85 | 0.13  |
| 251   | 327  | -0.01 | 0.86  | -2.00 | -0.26 | -1.32 | 0.63  | 170  | -0.76 | -2.87 | -1.90 | 1.18  | 5.90  | 0.63  |
|       | 124  | -0.01 | 0.86  | -0.51 | -0.37 | -1.85 | -0.64 | 125  | -0.76 | -2.87 | -0.40 | -0.70 | -3.51 | -0.64 |
| 252   | 328  | 0.13  | -0.17 | 1.50  | -0.25 | -1.27 | 0.16  | 329  | 0.06  | -0.51 | 1.31  | 0.05  | 0.26  | 0.16  |
|       | 142  | 0.13  | -0.17 | 0.70  | -0.36 | -1.81 | -0.17 | 143  | 0.06  | -0.51 | 0.51  | -0.36 | -1.79 | -0.17 |
| 253   | 329  | 0.04  | -0.31 | -0.03 | 0.05  | 0.26  | 0.04  | 330  | 0.07  | -0.15 | -0.29 | 0.01  | 0.04  | 0.04  |
|       | 143  | 0.04  | -0.31 | 0.26  | -0.36 | -1.79 | -0.05 | 144  | 0.07  | -0.15 | 0.00  | -0.23 | -1.16 | -0.05 |
| 254   | 330  | 0.06  | -0.01 | -1.68 | 0.01  | 0.04  | 0.30  | 171  | -0.13 | -0.92 | -1.17 | -0.04 | -0.18 | 0.30  |
|       | 144  | 0.06  | -0.01 | -0.44 | -0.23 | -1.16 | -0.31 | 145  | -0.13 | -0.92 | 0.07  | 0.38  | 1.88  | -0.31 |
| 255   | 331  | 0.07  | -0.05 | -0.64 | -0.03 | -0.13 | 0.05  | 332  | 0.03  | -0.27 | -0.88 | -0.05 | -0.24 | 0.05  |
|       | 298  | 0.07  | -0.05 | -0.75 | 0.36  | 1.79  | -0.06 | 299  | 0.03  | -0.27 | -1.00 | 0.47  | 2.36  | -0.06 |
| 256   | 332  | 0.06  | -0.49 | -1.93 | -0.05 | -0.24 | 0.18  | 333  | 0.16  | -0.03 | -1.97 | 0.26  | 1.31  | 0.18  |
|       | 299  | 0.06  | -0.49 | -1.19 | 0.47  | 2.36  | -0.18 | 300  | 0.16  | -0.03 | -1.23 | 0.46  | 2.32  | -0.18 |
| 257   | 333  | 0.02  | 0.77  | -3.59 | 0.26  | 1.31  | -0.67 | 173  | -0.70 | -2.82 | -3.09 | -1.27 | -6.35 | -0.67 |
|       | 300  | 0.02  | 0.77  | -1.77 | 0.46  | 2.32  | 0.67  | 21   | -0.70 | -2.82 | -1.27 | 0.87  | 4.36  | 0.67  |
| 258   | 334  | 0.13  | -0.12 | 0.03  | 0.27  | 1.36  | -0.13 | 335  | 0.07  | -0.42 | -0.12 | -0.12 | -0.58 | -0.13 |
|       | 37   | 0.13  | -0.12 | -0.47 | 0.50  | 2.51  | 0.12  | 38   | 0.07  | -0.42 | -0.62 | 0.69  | 3.46  | 0.12  |
| 259   | 335  | 0.09  | -0.53 | -1.49 | -0.12 | -0.58 | 0.15  | 336  | 0.20  | 0.01  | -1.50 | 0.30  | 1.50  | 0.15  |
|       | 38   | 0.09  | -0.53 | -0.82 | 0.69  | 3.46  | -0.15 | 39   | 0.20  | 0.01  | -0.83 | 0.51  | 2.55  | -0.15 |
| 260   | 336  | 0.04  | 0.74  | -3.39 | 0.30  | 1.50  | -0.68 | 174  | -0.76 | -3.28 | -3.07 | -1.39 | -6.95 | -0.68 |
|       | 39   | 0.04  | 0.74  | -1.18 | 0.51  | 2.55  | 0.67  | 41   | -0.76 | -3.28 | -0.86 | 1.13  | 5.67  | 0.67  |
| 261   | 337  | 0.04  | -0.47 | 0.66  | 0.33  | 1.66  | -0.17 | 338  | 0.08  | -0.25 | 0.53  | -0.15 | -0.75 | -0.17 |
|       | 59   | 0.04  | -0.47 | -0.09 | 0.92  | 4.62  | 0.16  | 60   | 0.08  | -0.25 | -0.22 | 1.05  | 5.26  | 0.16  |
| 262   | 338  | 0.09  | -0.40 | -1.38 | -0.15 | -0.75 | 0.19  | 339  | 0.10  | -0.33 | -1.46 | 0.36  | 1.79  | 0.19  |
|       | 60   | 0.09  | -0.40 | -0.51 | 1.05  | 5.26  | -0.20 | 61   | 0.10  | -0.33 | -0.59 | 0.96  | 4.78  | -0.20 |
| 263   | 339  | 0.06  | 1.14  | -3.20 | 0.36  | 1.79  | -0.64 | 175  | -0.79 | -3.14 | -2.91 | -1.50 | -7.49 | -0.64 |
|       | 61   | 0.06  | 1.14  | -1.48 | 0.96  | 4.78  | 0.63  | 62   | -0.79 | -3.14 | -1.19 | 1.47  | 7.36  | 0.63  |
| 264   | 340  | 0.10  | -0.34 | 1.15  | 0.36  | 1.79  | -0.19 | 341  | 0.08  | -0.41 | 0.97  | -0.15 | -0.75 | -0.19 |
|       | 78   | 0.10  | -0.34 | 0.26  | 0.97  | 4.83  | 0.18  | 79   | 0.08  | -0.41 | 0.08  | 1.08  | 5.42  | 0.18  |
| 265   | 341  | 0.08  | -0.32 | -0.87 | -0.15 | -0.75 | 0.17  | 342  | 0.07  | -0.38 | -1.12 | 0.34  | 1.68  | 0.17  |
|       | 79   | 0.08  | -0.32 | -0.16 | 1.08  | 5.42  | -0.18 | 80   | 0.07  | -0.38 | -0.40 | 0.97  | 4.84  | -0.18 |

TENS. Var.Coperture: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 266   | 342  | 0.03  | 0.90  | -2.55 | 0.34  | 1.68  | -0.72 | 176  | -0.68 | -2.68 | -2.61 | -1.41 | -7.05 | -0.72 |
|       | 80   | 0.03  | 0.90  | -1.18 | 0.97  | 4.84  | 0.71  | 81   | -0.68 | -2.68 | -1.24 | 1.22  | 6.08  | 0.71  |
| 267   | 343  | 0.08  | -0.27 | 0.78  | 0.31  | 1.54  | -0.37 | 344  | 0.06  | -0.33 | 1.08  | -0.12 | -0.62 | -0.37 |
|       | 98   | 0.08  | -0.27 | 0.05  | 0.84  | 4.21  | 0.36  | 99   | 0.06  | -0.33 | 0.35  | 0.62  | 3.10  | 0.36  |
| 268   | 344  | 0.09  | -0.52 | -0.78 | -0.12 | -0.62 | 0.12  | 345  | 0.16  | -0.17 | -0.82 | 0.31  | 1.57  | 0.12  |
|       | 99   | 0.09  | -0.52 | -0.17 | 0.62  | 3.10  | -0.13 | 100  | 0.16  | -0.17 | -0.21 | 0.40  | 2.01  | -0.13 |
| 269   | 345  | 0.03  | 0.95  | -2.51 | 0.31  | 1.57  | -0.59 | 177  | -0.78 | -3.10 | -2.28 | -1.36 | -6.82 | -0.59 |
|       | 100  | 0.03  | 0.95  | -0.80 | 0.40  | 2.01  | 0.59  | 101  | -0.78 | -3.10 | -0.57 | 1.02  | 5.08  | 0.59  |
| 270   | 346  | 0.12  | -0.28 | 1.21  | 0.32  | 1.58  | -0.17 | 347  | 0.09  | -0.42 | 1.05  | -0.13 | -0.66 | -0.17 |
|       | 118  | 0.12  | -0.28 | 0.40  | 0.56  | 2.78  | 0.17  | 119  | 0.09  | -0.42 | 0.24  | 0.68  | 3.40  | 0.17  |
| 271   | 347  | 0.09  | -0.40 | -0.69 | -0.13 | -0.66 | 0.15  | 348  | 0.11  | -0.29 | -0.88 | 0.31  | 1.54  | 0.15  |
|       | 119  | 0.09  | -0.40 | 0.06  | 0.68  | 3.40  | -0.16 | 120  | 0.11  | -0.29 | -0.14 | 0.53  | 2.67  | -0.16 |
| 272   | 348  | 0.00  | 0.98  | -2.34 | 0.31  | 1.54  | -0.67 | 178  | -0.77 | -2.92 | -2.18 | -1.33 | -6.65 | -0.67 |
|       | 120  | 0.00  | 0.98  | -0.86 | 0.53  | 2.67  | 0.66  | 121  | -0.77 | -2.92 | -0.71 | 0.90  | 4.52  | 0.66  |
| 273   | 349  | 0.16  | -0.13 | 1.35  | 0.30  | 1.48  | -0.17 | 350  | 0.09  | -0.47 | 1.30  | -0.12 | -0.60 | -0.17 |
|       | 138  | 0.16  | -0.13 | 0.59  | 0.52  | 2.58  | 0.16  | 139  | 0.09  | -0.47 | 0.54  | 0.65  | 3.25  | 0.16  |
| 274   | 350  | 0.08  | -0.41 | -0.29 | -0.12 | -0.60 | 0.14  | 351  | 0.13  | -0.19 | -0.42 | 0.29  | 1.43  | 0.14  |
|       | 139  | 0.08  | -0.41 | 0.35  | 0.65  | 3.25  | -0.15 | 140  | 0.13  | -0.19 | 0.22  | 0.49  | 2.46  | -0.15 |
| 275   | 351  | -0.02 | 0.88  | -1.73 | 0.29  | 1.43  | -0.70 | 179  | -0.76 | -2.83 | -1.65 | -1.28 | -6.39 | -0.70 |
|       | 140  | -0.02 | 0.88  | -0.34 | 0.49  | 2.46  | 0.69  | 141  | -0.76 | -2.83 | -0.25 | 0.85  | 4.23  | 0.69  |
| 276   | 352  | 0.14  | -0.11 | 1.87  | 0.28  | 1.38  | -0.18 | 353  | 0.06  | -0.49 | 1.80  | -0.05 | -0.27 | -0.18 |
|       | 158  | 0.14  | -0.11 | 1.02  | 0.47  | 2.33  | 0.17  | 159  | 0.06  | -0.49 | 0.95  | 0.46  | 2.32  | 0.17  |
| 277   | 353  | 0.04  | -0.27 | 0.53  | -0.05 | -0.27 | -0.04 | 354  | 0.08  | -0.09 | 0.30  | -0.02 | -0.10 | -0.04 |
|       | 159  | 0.04  | -0.27 | 0.74  | 0.46  | 2.32  | 0.03  | 160  | 0.08  | -0.09 | 0.51  | 0.36  | 1.80  | 0.03  |
| 278   | 354  | 0.07  | 0.03  | -0.84 | -0.02 | -0.10 | -0.34 | 180  | -0.15 | -1.06 | -0.78 | 0.08  | 0.42  | -0.34 |
|       | 160  | 0.07  | 0.03  | 0.36  | 0.36  | 1.80  | 0.33  | 161  | -0.15 | -1.06 | 0.42  | -0.36 | -1.81 | 0.33  |
| 279   | 355  | -0.11 | -0.63 | -0.15 | -0.16 | -0.80 | 0.06  | 356  | 0.02  | 0.02  | -0.44 | 0.07  | 0.36  | 0.06  |
|       | 286  | -0.11 | -0.63 | -0.33 | 0.58  | 2.88  | -0.07 | 290  | 0.02  | 0.02  | -0.62 | 0.56  | 2.80  | -0.07 |
| 280   | 356  | 0.02  | -0.03 | -1.80 | 0.07  | 0.36  | -0.11 | 357  | -0.09 | -0.56 | -1.85 | -0.15 | -0.76 | -0.11 |
|       | 290  | 0.02  | -0.03 | -1.47 | 0.56  | 2.80  | 0.10  | 294  | -0.09 | -0.56 | -1.52 | 0.43  | 2.16  | 0.10  |
| 281   | 357  | 0.06  | 0.75  | -3.05 | -0.15 | -0.76 | 0.00  | 172  | -0.32 | -1.15 | -2.16 | 0.56  | 2.78  | 0.00  |
|       | 294  | 0.06  | 0.75  | -3.11 | 0.43  | 2.16  | -0.01 | 20   | -0.32 | -1.15 | -2.21 | -0.26 | -1.32 | -0.01 |
| 282   | 358  | -0.11 | -0.67 | 0.27  | 0.17  | 0.87  | -0.08 | 359  | 0.03  | 0.02  | -0.01 | -0.08 | -0.40 | -0.08 |
|       | 149  | -0.11 | -0.67 | 0.04  | -0.57 | -2.86 | 0.07  | 153  | 0.03  | 0.02  | -0.24 | -0.56 | -2.79 | 0.07  |



TENS. Var.Coperture: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N.ro | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> | N/cm <sup>2</sup> |
| 283   | 359  | 0.02              | -0.03             | -1.41             | -0.08             | -0.40             | 0.09              | 360  | -0.09             | -0.60             | -1.53             | 0.17              | 0.83              | 0.09              |
|       | 153  | 0.02              | -0.03             | -1.09             | -0.56             | -2.79             | -0.10             | 157  | -0.09             | -0.60             | -1.20             | -0.47             | -2.37             | -0.10             |
| 284   | 360  | 0.06              | 0.79              | -2.69             | 0.17              | 0.83              | 0.00              | 180  | -0.34             | -1.25             | -1.95             | -0.61             | -3.05             | 0.00              |
|       | 157  | 0.06              | 0.79              | -2.77             | -0.47             | -2.37             | 0.00              | 161  | -0.34             | -1.25             | -2.02             | 0.30              | 1.50              | 0.00              |
| 285   | 361  | 0.02              | -0.09             | 2.52              | 0.00              | 0.00              | -0.31             | 181  | -0.01             | -0.23             | 3.00              | -0.02             | -0.10             | -0.31             |
|       | 266  | 0.02              | -0.09             | 1.69              | -0.10             | -0.48             | 0.30              | 13   | -0.01             | -0.23             | 2.17              | -0.74             | -3.71             | 0.30              |
| 286   | 362  | -0.11             | 0.43              | 2.33              | -0.04             | -0.18             | -0.16             | 182  | -0.42             | -1.11             | 1.31              | -0.02             | -0.12             | -0.16             |
|       | 277  | -0.11             | 0.43              | 2.05              | 0.08              | 0.38              | 0.15              | 16   | -0.42             | -1.11             | 1.03              | -0.14             | -0.71             | 0.15              |
| 287   | 363  | 0.02              | -0.09             | 2.69              | 0.01              | 0.05              | 0.29              | 183  | -0.01             | -0.24             | 3.20              | 0.02              | 0.09              | 0.29              |
|       | 280  | 0.02              | -0.09             | 1.83              | 0.10              | 0.51              | -0.30             | 17   | -0.01             | -0.24             | 2.34              | 0.74              | 3.70              | -0.30             |
| 288   | 364  | -0.16             | 0.54              | 2.56              | 0.03              | 0.16              | 0.15              | 184  | -0.53             | -1.30             | 1.50              | 0.04              | 0.21              | 0.15              |
|       | 282  | -0.16             | 0.54              | 2.15              | -0.07             | -0.37             | -0.16             | 14   | -0.53             | -1.30             | 1.09              | 0.12              | 0.60              | -0.16             |
| 289   | 365  | -0.03             | -0.15             | 0.69              | 0.06              | 0.32              | 0.00              | 366  | 0.00              | -0.02             | 0.70              | -0.02             | -0.08             | 0.00              |
|       | 42   | -0.03             | -0.15             | 0.55              | -0.20             | -0.99             | -0.01             | 43   | 0.00              | -0.02             | 0.56              | -0.11             | -0.53             | -0.01             |
| 290   | 366  | 0.00              | -0.05             | 0.47              | -0.02             | -0.08             | 0.02              | 367  | -0.01             | -0.08             | 0.36              | 0.00              | 0.02              | 0.02              |
|       | 43   | 0.00              | -0.05             | 0.41              | -0.11             | -0.53             | -0.03             | 44   | -0.01             | -0.08             | 0.30              | -0.07             | -0.37             | -0.03             |
| 291   | 367  | -0.01             | -0.05             | 0.21              | 0.00              | 0.02              | 0.01              | 185  | -0.01             | -0.07             | 0.05              | 0.00              | -0.01             | 0.01              |
|       | 44   | -0.01             | -0.05             | 0.20              | -0.07             | -0.37             | -0.01             | 15   | -0.01             | -0.07             | 0.04              | -0.05             | -0.25             | -0.01             |
| 292   | 368  | -0.01             | -0.08             | -0.38             | 0.00              | 0.02              | -0.03             | 369  | 0.00              | -0.05             | -0.49             | -0.01             | -0.07             | -0.03             |
|       | 63   | -0.01             | -0.08             | -0.32             | -0.08             | -0.42             | 0.02              | 64   | 0.00              | -0.05             | -0.43             | -0.13             | -0.64             | 0.02              |
| 293   | 369  | 0.00              | -0.02             | -0.74             | -0.01             | -0.07             | -0.01             | 370  | -0.03             | -0.15             | -0.72             | 0.06              | 0.29              | -0.01             |
|       | 64   | 0.00              | -0.02             | -0.59             | -0.13             | -0.64             | 0.00              | 65   | -0.03             | -0.15             | -0.58             | -0.21             | -1.07             | 0.00              |
| 294   | 370  | -0.04             | 0.19              | -0.91             | 0.06              | 0.29              | -0.15             | 184  | -0.12             | -0.23             | -0.59             | -0.25             | -1.26             | -0.15             |
|       | 65   | -0.04             | 0.19              | -1.09             | -0.21             | -1.07             | 0.14              | 14   | -0.12             | -0.23             | -0.76             | -0.22             | -1.08             | 0.14              |

CARATT. Vento dir. 0: ASTE

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
|     | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
|     | 19   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
|     | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 21   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
|     | 1    | 5.00 | -0.06   | 0.00    | -0.06   | 0.00    | -0.08   | 0.00    | 1    | 2.00 | 0.06    | 0.00    | 0.06    | 0.00    | -0.09   | 0.00    |
|     | 2    | 5.00 | -0.08   | 0.00    | 0.01    | 0.00    | -0.11   | 0.00    | 2    | 2.00 | 0.08    | 0.00    | -0.01   | 0.00    | -0.09   | 0.00    |

CARATT. Vento dir. 0: ASTE

| Tra | Filo | Alt.  | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|-------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)   | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 3   | 5.00 | -0.08 | 0.00    | 0.02    | 0.00    | 0.00    | -0.11   | 0.00    | 3    | 2.00 | 0.08    | 0.00    | -0.02   | 0.00    | -0.11   | 0.00    |
| 4   | 5.00 | -0.07 | 0.00    | 0.00    | 0.00    | 0.00    | -0.10   | 0.00    | 4    | 2.00 | 0.07    | 0.00    | 0.00    | 0.00    | -0.08   | 0.00    |
| 5   | 5.00 | -0.08 | 0.00    | -0.01   | 0.00    | 0.00    | -0.10   | 0.00    | 5    | 2.00 | 0.08    | 0.00    | 0.01    | 0.00    | -0.11   | 0.00    |
| 6   | 5.00 | -0.08 | 0.00    | 0.01    | 0.00    | 0.00    | -0.10   | 0.00    | 6    | 2.00 | 0.08    | 0.00    | -0.01   | 0.00    | -0.09   | 0.00    |
| 7   | 5.00 | -0.07 | 0.00    | 0.00    | 0.00    | 0.00    | -0.10   | 0.00    | 7    | 2.00 | 0.07    | 0.00    | 0.00    | 0.00    | -0.09   | 0.00    |
| 8   | 5.00 | -0.08 | 0.00    | -0.01   | 0.00    | 0.00    | -0.11   | 0.00    | 8    | 2.00 | 0.08    | 0.00    | 0.01    | 0.00    | -0.09   | 0.00    |
| 9   | 5.00 | -0.06 | 0.00    | 0.05    | 0.00    | 0.00    | -0.07   | 0.00    | 9    | 2.00 | 0.06    | 0.00    | -0.05   | 0.00    | -0.09   | 0.00    |
| 10  | 5.00 | -0.06 | 0.00    | -0.06   | 0.00    | 0.00    | -0.08   | 0.00    | 10   | 2.00 | 0.06    | 0.00    | 0.06    | 0.00    | -0.09   | 0.00    |
| 11  | 5.00 | -0.08 | 0.00    | 0.01    | 0.00    | 0.00    | -0.11   | 0.00    | 11   | 2.00 | 0.08    | 0.00    | -0.01   | 0.00    | -0.09   | 0.00    |
| 12  | 5.00 | -0.07 | 0.00    | 0.01    | 0.00    | 0.00    | -0.10   | 0.00    | 12   | 2.00 | 0.07    | 0.00    | -0.01   | 0.00    | -0.09   | 0.00    |
| 13  | 5.00 | -0.07 | 0.00    | 0.00    | 0.00    | 0.00    | -0.10   | 0.00    | 13   | 2.00 | 0.07    | 0.00    | 0.00    | 0.00    | -0.09   | 0.00    |
| 14  | 5.00 | -0.07 | 0.00    | -0.01   | 0.00    | 0.00    | -0.10   | 0.00    | 14   | 2.00 | 0.07    | 0.00    | 0.01    | 0.00    | -0.09   | 0.00    |
| 15  | 5.00 | -0.08 | 0.00    | 0.00    | 0.00    | 0.00    | -0.10   | 0.00    | 15   | 2.00 | 0.08    | 0.00    | 0.00    | 0.00    | -0.09   | 0.00    |
| 16  | 5.00 | -0.08 | 0.00    | 0.00    | 0.00    | 0.00    | -0.10   | 0.00    | 16   | 2.00 | 0.08    | 0.00    | 0.00    | 0.00    | -0.09   | 0.00    |
| 17  | 5.00 | -0.08 | 0.00    | -0.01   | 0.00    | 0.00    | -0.11   | 0.00    | 17   | 2.00 | 0.08    | 0.00    | 0.01    | 0.00    | -0.09   | 0.00    |
| 18  | 5.00 | -0.06 | 0.00    | 0.05    | 0.00    | 0.00    | -0.07   | 0.00    | 18   | 2.00 | 0.06    | 0.00    | -0.05   | 0.00    | -0.09   | 0.00    |
| 1   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    | 25   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 9   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    | 33   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 10  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    | 25   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 18  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    | 33   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 2   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 26   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    |
| 6   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    |
| 7   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    |
| 8   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    |
| 3   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    | 27   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    |
| 4   | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    | 28   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    |
| 5   | 5.00 | 0.00  | 0.00    | -0.01   | 0.00    | 0.00    | -0.01   | 0.00    | 29   | 6.00 | 0.00    | 0.00    | 0.01    | 0.00    | 0.01    | 0.00    |
| 11  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 26   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    |
| 15  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    |
| 16  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    |
| 17  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    |
| 12  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 27   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    |
| 13  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.00    | 28   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    |
| 14  | 5.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 29   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | -0.01   | 0.00    |

CARATT. Vento dir. 0: ASTE

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 1   | 5.00 | 0.00 | -0.06   | 0.00    | 0.09    | 0.00    | 0.00    | 0.00    | 2    | 5.00 | 0.00    | 0.06    | 0.00    | 0.07    | 0.00    | 0.00    |
| 2   | 5.00 | 0.00 | -0.05   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 3    | 5.00 | 0.00    | 0.05    | 0.00    | 0.07    | 0.00    | 0.00    |
| 3   | 5.00 | 0.00 | -0.03   | 0.00    | 0.05    | 0.00    | 0.00    | 0.00    | 4    | 5.00 | 0.00    | 0.03    | 0.00    | 0.05    | 0.00    | 0.00    |
| 4   | 5.00 | 0.00 | -0.03   | 0.00    | 0.05    | 0.00    | 0.00    | 0.00    | 5    | 5.00 | 0.00    | 0.03    | 0.00    | 0.06    | 0.00    | 0.00    |
| 5   | 5.00 | 0.00 | -0.04   | 0.00    | 0.07    | 0.00    | 0.00    | 0.00    | 6    | 5.00 | 0.00    | 0.04    | 0.00    | 0.06    | 0.00    | 0.00    |
| 6   | 5.00 | 0.00 | -0.03   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 7    | 5.00 | 0.00    | 0.03    | 0.00    | 0.06    | 0.00    | 0.00    |
| 7   | 5.00 | 0.00 | -0.04   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 8    | 5.00 | 0.00    | 0.04    | 0.00    | 0.06    | 0.00    | 0.00    |
| 8   | 5.00 | 0.00 | -0.05   | 0.00    | 0.07    | 0.00    | 0.00    | 0.00    | 9    | 5.00 | 0.00    | 0.05    | 0.00    | 0.08    | 0.00    | 0.00    |
| 10  | 5.00 | 0.00 | -0.06   | 0.00    | 0.09    | 0.00    | 0.00    | 0.00    | 11   | 5.00 | 0.00    | 0.06    | 0.00    | 0.07    | 0.00    | 0.00    |
| 11  | 5.00 | 0.00 | -0.04   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 12   | 5.00 | 0.00    | 0.04    | 0.00    | 0.06    | 0.00    | 0.00    |
| 12  | 5.00 | 0.00 | -0.03   | 0.00    | 0.05    | 0.00    | 0.00    | 0.00    | 13   | 5.00 | 0.00    | 0.03    | 0.00    | 0.06    | 0.00    | 0.00    |
| 13  | 5.00 | 0.00 | -0.03   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 14   | 5.00 | 0.00    | 0.03    | 0.00    | 0.05    | 0.00    | 0.00    |
| 14  | 5.00 | 0.00 | -0.04   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 15   | 5.00 | 0.00    | 0.04    | 0.00    | 0.06    | 0.00    | 0.00    |
| 15  | 5.00 | 0.00 | -0.03   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 16   | 5.00 | 0.00    | 0.03    | 0.00    | 0.06    | 0.00    | 0.00    |
| 16  | 5.00 | 0.00 | -0.04   | 0.00    | 0.06    | 0.00    | 0.00    | 0.00    | 17   | 5.00 | 0.00    | 0.04    | 0.00    | 0.06    | 0.00    | 0.00    |
| 17  | 5.00 | 0.00 | -0.05   | 0.00    | 0.07    | 0.00    | 0.00    | 0.00    | 18   | 5.00 | 0.00    | 0.05    | 0.00    | 0.08    | 0.00    | 0.00    |
| 25  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 26   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 26  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 27   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 27  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 28   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 28  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 29   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 29  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 30  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 31  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 32  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 33   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 1     | 216  | -0.11             | 0.03              | 0.00              | 0.31              | 0.11              | 0.00              | 217  | -0.13             | -0.04             | -0.05             | 0.18              | 0.06              | -0.04             |
|       | 1    | -0.36             | -0.02             | -0.01             | 0.41              | 0.09              | 0.04              | 213  | -0.37             | -0.09             | -0.06             | 0.16              | -0.01             | -0.01             |
| 2     | 220  | 0.03              | 0.00              | -0.16             | -0.24             | -0.01             | 0.32              | 227  | 0.03              | -0.01             | -0.05             | 0.23              | -0.03             | -0.20             |
|       | 2    | -0.27             | -0.06             | -0.07             | 1.50              | 0.24              | 0.36              | 224  | -0.27             | -0.07             | 0.04              | -0.15             | -0.07             | -0.16             |
| 3     | 234  | -0.01             | 0.01              | -0.02             | -0.02             | 0.00              | 0.00              | 235  | -0.01             | -0.01             | -0.02             | 0.02              | -0.01             | -0.05             |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 4    | -0.01             | 0.00              | 0.09              | 0.13              | 0.04              | 0.02              | 231  | -0.01             | -0.02             | 0.09              | -0.04             | -0.03             | -0.04             |
| 4     | 242  | -0.16             | 0.01              | -0.06             | 0.32              | 0.07              | 0.14              | 243  | -0.16             | 0.03              | -0.02             | 0.04              | 0.06              | 0.01              |
|       | 3    | -0.20             | 0.00              | 0.05              | 0.49              | 0.10              | 0.10              | 221  | -0.20             | 0.02              | 0.09              | 0.08              | 0.12              | -0.03             |
| 5     | 253  | -0.13             | -0.06             | 0.48              | 0.04              | 0.06              | -0.01             | 254  | -0.11             | 0.04              | -0.22             | -0.01             | 0.00              | 0.01              |
|       | 1    | 0.18              | 0.00              | 0.41              | -0.01             | 0.01              | 0.01              | 249  | 0.20              | 0.10              | -0.30             | 0.01              | 0.00              | 0.03              |
| 6     | 253  | -0.03             | -0.12             | 0.02              | 0.87              | 1.95              | 0.01              | 264  | 0.00              | 0.05              | 0.01              | -0.66             | -1.78             | 0.06              |
|       | 1    | 0.07              | -0.10             | -0.01             | -0.58             | -1.94             | 0.23              | 216  | 0.10              | 0.07              | -0.02             | 0.47              | 0.91              | 0.28              |
| 7     | 267  | 0.08              | 0.03              | -0.06             | 0.02              | -0.07             | -0.02             | 268  | 0.07              | -0.02             | -0.05             | -0.02             | -0.02             | 0.01              |
|       | 8    | 0.03              | 0.02              | -0.05             | 0.06              | 0.04              | -0.01             | 241  | 0.02              | -0.03             | -0.04             | -0.12             | -0.09             | 0.02              |
| 8     | 271  | -0.01             | 0.00              | -0.06             | -0.03             | 0.00              | -0.01             | 272  | -0.01             | 0.01              | -0.06             | 0.03              | 0.04              | -0.01             |
|       | 7    | -0.02             | 0.00              | -0.07             | 0.18              | 0.04              | -0.02             | 248  | -0.02             | 0.00              | -0.07             | -0.18             | -0.02             | -0.02             |
| 9     | 265  | 0.00              | 0.00              | 0.00              | -0.26             | -1.15             | -0.02             | 276  | 0.00              | -0.01             | -0.01             | -0.43             | -0.91             | -0.07             |
|       | 3    | 0.02              | 0.00              | -0.01             | -0.20             | 0.33              | -0.14             | 242  | 0.01              | -0.01             | -0.02             | 0.21              | 0.37              | -0.19             |
| 10    | 259  | 0.03              | 0.13              | -0.02             | 0.58              | 1.88              | 0.02              | 278  | -0.01             | -0.05             | -0.02             | -0.38             | -1.18             | 0.02              |
|       | 5    | -0.07             | 0.11              | 0.01              | -0.74             | -1.94             | 0.14              | 230  | -0.10             | -0.07             | 0.01              | 0.57              | 0.77              | 0.14              |
| 11    | 279  | 0.00              | 0.00              | -0.02             | -0.12             | -0.54             | -0.03             | 281  | 0.00              | 0.01              | 0.00              | -0.21             | -0.49             | -0.05             |
|       | 6    | -0.04             | -0.01             | 0.00              | -0.15             | 0.14              | -0.08             | 238  | -0.04             | 0.00              | 0.02              | 0.15              | 0.23              | -0.10             |
| 12    | 286  | 0.00              | 0.00              | 0.00              | -0.20             | 0.21              | -0.29             | 287  | 0.00              | 0.00              | 0.00              | 0.27              | 0.22              | -0.01             |
|       | 18   | 0.00              | 0.00              | 0.00              | -0.68             | -0.41             | -0.22             | 283  | 0.00              | 0.00              | 0.00              | -0.82             | -0.44             | 0.06              |
| 13    | 25   | 0.00              | 0.00              | 0.00              | 0.34              | -0.03             | 0.15              | 26   | 0.00              | 0.00              | 0.00              | -0.12             | -0.06             | 0.07              |
|       | 19   | 0.00              | 0.00              | 0.00              | 0.60              | -0.06             | 0.06              | 22   | 0.00              | 0.00              | 0.00              | 0.14              | -0.09             | -0.01             |
| 14    | 26   | 0.00              | 0.00              | 0.00              | 0.22              | 0.03              | 0.05              | 27   | 0.00              | 0.00              | 0.00              | -0.10             | -0.02             | 0.03              |
|       | 22   | 0.00              | 0.00              | 0.00              | 0.29              | -0.02             | 0.02              | 23   | 0.00              | 0.00              | 0.00              | -0.04             | -0.07             | 0.01              |
| 15    | 27   | 0.00              | 0.00              | 0.00              | 0.13              | 0.03              | 0.04              | 28   | 0.00              | 0.00              | 0.00              | -0.12             | -0.01             | 0.04              |
|       | 23   | 0.00              | 0.00              | 0.00              | 0.13              | -0.02             | 0.03              | 24   | 0.00              | 0.00              | 0.00              | -0.13             | -0.06             | 0.03              |
| 16    | 28   | 0.00              | 0.00              | 0.00              | 0.02              | 0.02              | 0.06              | 13   | 0.00              | 0.00              | 0.00              | -0.26             | -0.02             | 0.08              |
|       | 24   | 0.00              | 0.00              | 0.00              | -0.07             | -0.03             | 0.03              | 11   | 0.00              | 0.00              | 0.00              | -0.35             | -0.06             | 0.05              |
| 17    | 29   | 0.00              | 0.00              | 0.00              | 0.08              | 0.09              | -0.01             | 30   | 0.00              | 0.00              | 0.00              | 0.08              | 0.06              | 0.00              |
|       | 25   | 0.00              | 0.00              | 0.00              | 0.04              | 0.14              | 0.02              | 26   | 0.00              | 0.00              | 0.00              | 0.04              | 0.11              | 0.03              |
| 18    | 30   | 0.00              | 0.00              | 0.00              | 0.05              | 0.05              | 0.00              | 31   | 0.00              | 0.00              | 0.00              | 0.07              | 0.04              | 0.01              |
|       | 26   | 0.00              | 0.00              | 0.00              | 0.04              | 0.07              | 0.02              | 27   | 0.00              | 0.00              | 0.00              | 0.05              | 0.06              | 0.03              |
| 19    | 31   | 0.00              | 0.00              | 0.00              | 0.03              | 0.01              | 0.01              | 32   | 0.00              | 0.00              | 0.00              | 0.03              | -0.01             | 0.02              |
|       | 27   | 0.00              | 0.00              | 0.00              | 0.02              | 0.04              | 0.03              | 28   | 0.00              | 0.00              | 0.00              | 0.02              | 0.02              | 0.03              |
| 20    | 32   | 0.00              | 0.00              | 0.00              | -0.11             | -0.07             | 0.02              | 16   | 0.00              | 0.00              | 0.00              | -0.20             | -0.11             | 0.00              |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 28   | 0.00              | 0.00              | 0.00              | -0.06             | 0.00              | 0.04              | 13   | 0.00              | 0.00              | 0.00              | -0.14             | -0.04             | 0.02              |
| 21    | 33   | 0.00              | 0.00              | 0.00              | -0.02             | 0.09              | -0.04             | 34   | 0.00              | 0.00              | 0.00              | 0.07              | 0.08              | -0.05             |
|       | 29   | 0.00              | 0.00              | 0.00              | 0.03              | 0.07              | 0.00              | 30   | 0.00              | 0.00              | 0.00              | 0.11              | 0.06              | -0.01             |
| 22    | 34   | 0.00              | 0.00              | 0.00              | 0.00              | 0.05              | -0.03             | 35   | 0.00              | 0.00              | 0.00              | 0.07              | 0.06              | -0.04             |
|       | 30   | 0.00              | 0.00              | 0.00              | 0.02              | 0.03              | -0.02             | 31   | 0.00              | 0.00              | 0.00              | 0.09              | 0.04              | -0.02             |
| 23    | 35   | 0.00              | 0.00              | 0.00              | -0.03             | 0.04              | -0.05             | 36   | 0.00              | 0.00              | 0.00              | 0.03              | 0.04              | -0.06             |
|       | 31   | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | -0.04             | 32   | 0.00              | 0.00              | 0.00              | 0.06              | 0.00              | -0.05             |
| 24    | 36   | 0.00              | 0.00              | 0.00              | -0.06             | 0.03              | -0.10             | 40   | 0.00              | 0.00              | 0.00              | -0.02             | 0.01              | -0.08             |
|       | 32   | 0.00              | 0.00              | 0.00              | -0.15             | -0.09             | -0.07             | 16   | 0.00              | 0.00              | 0.00              | -0.11             | -0.11             | -0.04             |
| 25    | 21   | 0.00              | 0.00              | 0.00              | 3.11              | 0.40              | -0.15             | 37   | 0.00              | 0.00              | 0.00              | -2.10             | -0.62             | 0.06              |
|       | 33   | 0.00              | 0.00              | 0.00              | -0.70             | -0.07             | -0.19             | 34   | 0.00              | 0.00              | 0.00              | 0.71              | 0.23              | 0.02              |
| 26    | 37   | 0.00              | 0.00              | 0.00              | 1.77              | 0.16              | 0.00              | 38   | 0.00              | 0.00              | 0.00              | -1.60             | -0.44             | 0.03              |
|       | 34   | 0.00              | 0.00              | 0.00              | -0.36             | 0.02              | -0.07             | 35   | 0.00              | 0.00              | 0.00              | 0.44              | 0.18              | -0.03             |
| 27    | 38   | 0.00              | 0.00              | 0.00              | 1.54              | 0.18              | 0.05              | 39   | 0.00              | 0.00              | 0.00              | -1.76             | -0.37             | 0.02              |
|       | 35   | 0.00              | 0.00              | 0.00              | -0.38             | 0.02              | -0.05             | 36   | 0.00              | 0.00              | 0.00              | 0.37              | 0.16              | -0.08             |
| 28    | 39   | 0.00              | 0.00              | 0.00              | 2.25              | 0.43              | 0.09              | 41   | 0.00              | 0.00              | 0.00              | -3.76             | -0.90             | -0.19             |
|       | 36   | 0.00              | 0.00              | 0.00              | -0.78             | -0.07             | 0.08              | 40   | 0.00              | 0.00              | 0.00              | 0.86              | 0.41              | -0.20             |
| 29    | 45   | 0.00              | 0.00              | 0.00              | 0.01              | 0.01              | 0.02              | 46   | 0.00              | 0.00              | 0.00              | -0.03             | 0.01              | 0.05              |
|       | 16   | 0.00              | 0.00              | 0.00              | -0.18             | -0.30             | 0.00              | 42   | 0.00              | 0.00              | 0.00              | 0.02              | -0.18             | 0.02              |
| 30    | 46   | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              | 0.02              | 47   | 0.00              | 0.00              | 0.00              | 0.01              | 0.02              | 0.03              |
|       | 42   | 0.00              | 0.00              | 0.00              | -0.04             | -0.19             | 0.00              | 43   | 0.00              | 0.00              | 0.00              | -0.03             | -0.12             | 0.01              |
| 31    | 47   | 0.00              | 0.00              | 0.00              | 0.00              | 0.02              | 0.02              | 48   | 0.00              | 0.00              | 0.00              | 0.01              | 0.02              | 0.03              |
|       | 43   | 0.00              | 0.00              | 0.00              | -0.01             | -0.11             | 0.01              | 44   | 0.00              | 0.00              | 0.00              | -0.03             | -0.07             | 0.01              |
| 32    | 48   | 0.00              | 0.00              | 0.00              | -0.01             | 0.02              | 0.02              | 49   | 0.00              | 0.00              | 0.00              | 0.02              | 0.01              | 0.02              |
|       | 44   | 0.00              | 0.00              | 0.00              | 0.00              | -0.07             | 0.01              | 15   | 0.00              | 0.00              | 0.00              | -0.02             | -0.02             | 0.01              |
| 33    | 40   | 0.00              | 0.00              | 0.00              | -0.07             | 0.01              | 0.05              | 50   | 0.00              | 0.00              | 0.00              | -0.04             | 0.02              | 0.03              |
|       | 45   | 0.00              | 0.00              | 0.00              | -0.04             | 0.02              | 0.05              | 46   | 0.00              | 0.00              | 0.00              | -0.01             | 0.02              | 0.03              |
| 34    | 50   | 0.00              | 0.00              | 0.00              | 0.00              | 0.03              | 0.03              | 51   | 0.00              | 0.00              | 0.00              | 0.00              | 0.03              | 0.03              |
|       | 46   | 0.00              | 0.00              | 0.00              | 0.01              | 0.02              | 0.03              | 47   | 0.00              | 0.00              | 0.00              | 0.00              | 0.02              | 0.02              |
| 35    | 51   | 0.00              | 0.00              | 0.00              | 0.01              | 0.03              | 0.02              | 52   | 0.00              | 0.00              | 0.00              | 0.00              | 0.03              | 0.02              |
|       | 47   | 0.00              | 0.00              | 0.00              | 0.01              | 0.03              | 0.02              | 48   | 0.00              | 0.00              | 0.00              | 0.00              | 0.03              | 0.02              |
| 36    | 52   | 0.00              | 0.00              | 0.00              | -0.01             | 0.03              | 0.01              | 53   | 0.00              | 0.00              | 0.00              | -0.01             | 0.02              | 0.01              |
|       | 48   | 0.00              | 0.00              | 0.00              | 0.00              | 0.03              | 0.02              | 49   | 0.00              | 0.00              | 0.00              | 0.00              | 0.02              | 0.01              |
| 37    | 54   | 0.00              | 0.00              | 0.00              | -0.12             | 0.12              | -0.02             | 55   | 0.00              | 0.00              | 0.00              | 0.08              | 0.09              | 0.00              |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 40   | 0.00              | 0.00              | 0.00              | -0.14             | 0.08              | 0.01              | 50   | 0.00              | 0.00              | 0.00              | 0.05              | 0.05              | 0.02              |
| 38    | 55   | 0.00              | 0.00              | 0.00              | -0.08             | 0.02              | 0.02              | 56   | 0.00              | 0.00              | 0.00              | 0.08              | 0.04              | 0.02              |
|       | 50   | 0.00              | 0.00              | 0.00              | -0.08             | 0.03              | 0.02              | 51   | 0.00              | 0.00              | 0.00              | 0.08              | 0.05              | 0.02              |
| 39    | 56   | 0.00              | 0.00              | 0.00              | -0.07             | 0.03              | 0.02              | 57   | 0.00              | 0.00              | 0.00              | 0.08              | 0.05              | 0.02              |
|       | 51   | 0.00              | 0.00              | 0.00              | -0.08             | 0.03              | 0.02              | 52   | 0.00              | 0.00              | 0.00              | 0.08              | 0.05              | 0.02              |
| 40    | 57   | 0.00              | 0.00              | 0.00              | -0.11             | 0.01              | -0.01             | 58   | 0.00              | 0.00              | 0.00              | 0.10              | 0.02              | 0.00              |
|       | 52   | 0.00              | 0.00              | 0.00              | -0.11             | 0.02              | 0.00              | 53   | 0.00              | 0.00              | 0.00              | 0.10              | 0.02              | 0.01              |
| 41    | 41   | 0.00              | 0.00              | 0.00              | 4.08              | 0.52              | -0.16             | 59   | 0.00              | 0.00              | 0.00              | -3.59             | -0.66             | 0.15              |
|       | 54   | 0.00              | 0.00              | 0.00              | -0.69             | 0.03              | -0.23             | 55   | 0.00              | 0.00              | 0.00              | 0.67              | 0.15              | 0.08              |
| 42    | 59   | 0.00              | 0.00              | 0.00              | 3.35              | 0.73              | -0.02             | 60   | 0.00              | 0.00              | 0.00              | -3.25             | -0.68             | 0.03              |
|       | 55   | 0.00              | 0.00              | 0.00              | -0.57             | -0.10             | 0.01              | 56   | 0.00              | 0.00              | 0.00              | 0.58              | 0.15              | 0.06              |
| 43    | 60   | 0.00              | 0.00              | 0.00              | 3.26              | 0.62              | 0.05              | 61   | 0.00              | 0.00              | 0.00              | -3.40             | -0.72             | -0.02             |
|       | 56   | 0.00              | 0.00              | 0.00              | -0.57             | -0.08             | 0.06              | 57   | 0.00              | 0.00              | 0.00              | 0.58              | 0.14              | -0.01             |
| 44    | 61   | 0.00              | 0.00              | 0.00              | 3.99              | 0.75              | 0.22              | 62   | 0.00              | 0.00              | 0.00              | -4.91             | -1.01             | -0.25             |
|       | 57   | 0.00              | 0.00              | 0.00              | -0.79             | -0.13             | 0.22              | 58   | 0.00              | 0.00              | 0.00              | 0.80              | 0.19              | -0.26             |
| 45    | 49   | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | 0.02              | 66   | 0.00              | 0.00              | 0.00              | 0.02              | 0.00              | 0.03              |
|       | 15   | 0.00              | 0.00              | 0.00              | 0.02              | -0.01             | 0.01              | 63   | 0.00              | 0.00              | 0.00              | -0.01             | 0.04              | 0.01              |
| 46    | 66   | 0.00              | 0.00              | 0.00              | -0.03             | -0.01             | 0.03              | 67   | 0.00              | 0.00              | 0.00              | 0.02              | 0.00              | 0.03              |
|       | 63   | 0.00              | 0.00              | 0.00              | 0.03              | 0.04              | 0.01              | 64   | 0.00              | 0.00              | 0.00              | -0.01             | 0.09              | 0.01              |
| 47    | 67   | 0.00              | 0.00              | 0.00              | -0.03             | -0.01             | 0.03              | 68   | 0.00              | 0.00              | 0.00              | 0.02              | 0.02              | 0.03              |
|       | 64   | 0.00              | 0.00              | 0.00              | 0.04              | 0.10              | 0.01              | 65   | 0.00              | 0.00              | 0.00              | 0.02              | 0.17              | 0.00              |
| 48    | 68   | 0.00              | 0.00              | 0.00              | -0.03             | 0.01              | 0.02              | 69   | 0.00              | 0.00              | 0.00              | 0.09              | 0.02              | 0.03              |
|       | 65   | 0.00              | 0.00              | 0.00              | 0.02              | 0.17              | 0.01              | 14   | 0.00              | 0.00              | 0.00              | 0.11              | 0.24              | 0.02              |
| 49    | 53   | 0.00              | 0.00              | 0.00              | 0.12              | 0.06              | 0.01              | 70   | 0.00              | 0.00              | 0.00              | -0.12             | -0.05             | 0.00              |
|       | 49   | 0.00              | 0.00              | 0.00              | -0.02             | -0.01             | 0.03              | 66   | 0.00              | 0.00              | 0.00              | 0.02              | 0.01              | 0.02              |
| 50    | 70   | 0.00              | 0.00              | 0.00              | 0.14              | 0.00              | 0.02              | 71   | 0.00              | 0.00              | 0.00              | -0.12             | -0.05             | 0.03              |
|       | 66   | 0.00              | 0.00              | 0.00              | -0.02             | 0.00              | 0.02              | 67   | 0.00              | 0.00              | 0.00              | 0.02              | 0.00              | 0.03              |
| 51    | 71   | 0.00              | 0.00              | 0.00              | 0.12              | 0.00              | 0.03              | 72   | 0.00              | 0.00              | 0.00              | -0.14             | -0.05             | 0.03              |
|       | 67   | 0.00              | 0.00              | 0.00              | -0.03             | -0.01             | 0.03              | 68   | 0.00              | 0.00              | 0.00              | 0.02              | 0.01              | 0.03              |
| 52    | 72   | 0.00              | 0.00              | 0.00              | 0.09              | 0.00              | 0.03              | 73   | 0.00              | 0.00              | 0.00              | -0.07             | -0.07             | 0.02              |
|       | 68   | 0.00              | 0.00              | 0.00              | -0.03             | 0.01              | 0.03              | 69   | 0.00              | 0.00              | 0.00              | 0.10              | 0.06              | 0.02              |
| 53    | 58   | 0.00              | 0.00              | 0.00              | -0.82             | -0.21             | -0.02             | 74   | 0.00              | 0.00              | 0.00              | 0.82              | 0.15              | -0.01             |
|       | 53   | 0.00              | 0.00              | 0.00              | 0.12              | 0.07              | -0.01             | 70   | 0.00              | 0.00              | 0.00              | -0.12             | -0.05             | 0.00              |
| 54    | 74   | 0.00              | 0.00              | 0.00              | -0.62             | -0.14             | 0.03              | 75   | 0.00              | 0.00              | 0.00              | 0.62              | 0.11              | 0.02              |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 70   | 0.00              | 0.00              | 0.00              | 0.14              | 0.00              | 0.03              | 71   | 0.00              | 0.00              | 0.00              | -0.12             | -0.05             | 0.02              |
| 55    | 75   | 0.00              | 0.00              | 0.00              | -0.62             | -0.14             | 0.01              | 76   | 0.00              | 0.00              | 0.00              | 0.63              | 0.08              | 0.04              |
|       | 71   | 0.00              | 0.00              | 0.00              | 0.12              | 0.00              | 0.02              | 72   | 0.00              | 0.00              | 0.00              | -0.14             | -0.05             | 0.04              |
| 56    | 76   | 0.00              | 0.00              | 0.00              | -0.72             | -0.19             | 0.03              | 77   | 0.00              | 0.00              | 0.00              | 0.56              | -0.02             | -0.06             |
|       | 72   | 0.00              | 0.00              | 0.00              | 0.09              | 0.00              | 0.06              | 73   | 0.00              | 0.00              | 0.00              | -0.06             | -0.06             | -0.02             |
| 57    | 62   | 0.00              | 0.00              | 0.00              | 4.90              | 0.95              | -0.25             | 78   | 0.00              | 0.00              | 0.00              | -4.00             | -0.80             | 0.21              |
|       | 58   | 0.00              | 0.00              | 0.00              | -0.80             | -0.13             | -0.24             | 74   | 0.00              | 0.00              | 0.00              | 0.82              | 0.13              | 0.22              |
| 58    | 78   | 0.00              | 0.00              | 0.00              | 3.41              | 0.68              | -0.01             | 79   | 0.00              | 0.00              | 0.00              | -3.28             | -0.68             | 0.05              |
|       | 74   | 0.00              | 0.00              | 0.00              | -0.62             | -0.15             | -0.01             | 75   | 0.00              | 0.00              | 0.00              | 0.62              | 0.10              | 0.06              |
| 59    | 79   | 0.00              | 0.00              | 0.00              | 3.26              | 0.63              | 0.04              | 80   | 0.00              | 0.00              | 0.00              | -3.40             | -0.77             | -0.03             |
|       | 75   | 0.00              | 0.00              | 0.00              | -0.62             | -0.15             | 0.06              | 76   | 0.00              | 0.00              | 0.00              | 0.64              | 0.11              | -0.01             |
| 60    | 80   | 0.00              | 0.00              | 0.00              | 3.81              | 0.67              | 0.16              | 81   | 0.00              | 0.00              | 0.00              | -4.50             | -0.67             | -0.15             |
|       | 76   | 0.00              | 0.00              | 0.00              | -0.72             | -0.17             | 0.11              | 77   | 0.00              | 0.00              | 0.00              | 0.55              | -0.07             | -0.20             |
| 61    | 17   | 0.00              | 0.00              | 0.00              | 0.32              | 0.04              | 0.05              | 86   | 0.00              | 0.00              | 0.00              | -0.02             | -0.01             | 0.03              |
|       | 12   | 0.00              | 0.00              | 0.00              | 0.39              | 0.06              | 0.02              | 82   | 0.00              | 0.00              | 0.00              | 0.05              | 0.01              | 0.00              |
| 62    | 86   | 0.00              | 0.00              | 0.00              | 0.14              | 0.02              | 0.02              | 87   | 0.00              | 0.00              | 0.00              | -0.16             | -0.03             | 0.01              |
|       | 82   | 0.00              | 0.00              | 0.00              | 0.14              | 0.04              | 0.01              | 83   | 0.00              | 0.00              | 0.00              | -0.15             | -0.02             | 0.01              |
| 63    | 87   | 0.00              | 0.00              | 0.00              | 0.12              | 0.03              | 0.00              | 88   | 0.00              | 0.00              | 0.00              | -0.23             | -0.03             | 0.02              |
|       | 83   | 0.00              | 0.00              | 0.00              | 0.09              | 0.02              | -0.01             | 84   | 0.00              | 0.00              | 0.00              | -0.27             | -0.04             | 0.00              |
| 64    | 88   | 0.00              | 0.00              | 0.00              | 0.16              | 0.07              | 0.03              | 89   | 0.00              | 0.00              | 0.00              | -0.34             | 0.03              | 0.10              |
|       | 84   | 0.00              | 0.00              | 0.00              | -0.08             | 0.01              | -0.04             | 85   | 0.00              | 0.00              | 0.00              | -0.58             | -0.04             | 0.04              |
| 65    | 14   | 0.00              | 0.00              | 0.00              | 0.18              | 0.11              | 0.02              | 90   | 0.00              | 0.00              | 0.00              | 0.11              | 0.08              | 0.02              |
|       | 17   | 0.00              | 0.00              | 0.00              | 0.16              | 0.05              | 0.03              | 86   | 0.00              | 0.00              | 0.00              | 0.10              | 0.02              | 0.03              |
| 66    | 90   | 0.00              | 0.00              | 0.00              | -0.04             | 0.02              | 0.01              | 91   | 0.00              | 0.00              | 0.00              | -0.01             | 0.01              | 0.00              |
|       | 86   | 0.00              | 0.00              | 0.00              | -0.03             | 0.00              | 0.02              | 87   | 0.00              | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              |
| 67    | 91   | 0.00              | 0.00              | 0.00              | -0.07             | -0.01             | 0.00              | 92   | 0.00              | 0.00              | 0.00              | -0.01             | -0.01             | 0.00              |
|       | 87   | 0.00              | 0.00              | 0.00              | -0.06             | -0.01             | 0.01              | 88   | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.01              |
| 68    | 92   | 0.00              | 0.00              | 0.00              | -0.06             | -0.02             | -0.01             | 93   | 0.00              | 0.00              | 0.00              | -0.03             | -0.03             | -0.02             |
|       | 88   | 0.00              | 0.00              | 0.00              | -0.02             | -0.04             | 0.02              | 89   | 0.00              | 0.00              | 0.00              | 0.01              | -0.06             | 0.01              |
| 69    | 94   | 0.00              | 0.00              | 0.00              | 0.06              | 0.06              | -0.04             | 90   | 0.00              | 0.00              | 0.00              | 0.10              | 0.10              | -0.04             |
|       | 69   | 0.00              | 0.00              | 0.00              | 0.15              | 0.10              | -0.03             | 14   | 0.00              | 0.00              | 0.00              | 0.19              | 0.14              | -0.03             |
| 70    | 94   | 0.00              | 0.00              | 0.00              | 0.01              | 0.05              | -0.05             | 95   | 0.00              | 0.00              | 0.00              | 0.03              | 0.04              | -0.04             |
|       | 90   | 0.00              | 0.00              | 0.00              | -0.02             | 0.04              | -0.04             | 91   | 0.00              | 0.00              | 0.00              | -0.01             | 0.02              | -0.02             |
| 71    | 95   | 0.00              | 0.00              | 0.00              | -0.03             | 0.02              | -0.03             | 96   | 0.00              | 0.00              | 0.00              | 0.01              | 0.02              | -0.02             |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 91   | 0.00              | 0.00              | 0.00              | -0.05             | 0.01              | -0.02             | 92   | 0.00              | 0.00              | 0.00              | -0.01             | 0.00              | -0.01             |
| 72    | 96   | 0.00              | 0.00              | 0.00              | -0.01             | -0.02             | -0.03             | 97   | 0.00              | 0.00              | 0.00              | 0.02              | -0.04             | -0.01             |
|       | 92   | 0.00              | 0.00              | 0.00              | -0.05             | 0.00              | 0.01              | 93   | 0.00              | 0.00              | 0.00              | -0.02             | -0.02             | 0.02              |
| 73    | 77   | 0.00              | 0.00              | 0.00              | -0.23             | -0.15             | 0.00              | 98   | 0.00              | 0.00              | 0.00              | -0.25             | -0.16             | -0.09             |
|       | 73   | 0.00              | 0.00              | 0.00              | -0.04             | -0.08             | 0.02              | 94   | 0.00              | 0.00              | 0.00              | -0.06             | -0.08             | -0.07             |
| 74    | 98   | 0.00              | 0.00              | 0.00              | 0.25              | -0.01             | 0.03              | 99   | 0.00              | 0.00              | 0.00              | -0.14             | -0.04             | 0.04              |
|       | 94   | 0.00              | 0.00              | 0.00              | 0.23              | -0.07             | -0.02             | 95   | 0.00              | 0.00              | 0.00              | -0.17             | -0.11             | -0.01             |
| 75    | 99   | 0.00              | 0.00              | 0.00              | 0.16              | 0.01              | 0.02              | 100  | 0.00              | 0.00              | 0.00              | -0.27             | -0.06             | 0.01              |
|       | 95   | 0.00              | 0.00              | 0.00              | 0.20              | 0.01              | 0.00              | 96   | 0.00              | 0.00              | 0.00              | -0.24             | -0.06             | -0.01             |
| 76    | 100  | 0.00              | 0.00              | 0.00              | -0.04             | -0.01             | 0.04              | 101  | 0.00              | 0.00              | 0.00              | -0.59             | -0.06             | -0.03             |
|       | 96   | 0.00              | 0.00              | 0.00              | 0.19              | 0.07              | -0.03             | 97   | 0.00              | 0.00              | 0.00              | -0.35             | 0.02              | -0.10             |
| 77    | 94   | 0.00              | 0.00              | 0.00              | 0.04              | 0.00              | -0.01             | 94   | 0.00              | 0.00              | 0.00              | 0.04              | 0.00              | -0.01             |
|       | 73   | 0.00              | 0.00              | 0.00              | 0.04              | 0.00              | -0.01             | 69   | 0.00              | 0.00              | 0.00              | 0.04              | 0.00              | -0.01             |
| 78    | 81   | 0.00              | 0.00              | 0.00              | 0.62              | -0.37             | -0.19             | 81   | 0.00              | 0.00              | 0.00              | 0.62              | -0.37             | -0.19             |
|       | 77   | 0.00              | 0.00              | 0.00              | 0.62              | -0.37             | -0.19             | 98   | 0.00              | 0.00              | 0.00              | 0.62              | -0.37             | -0.19             |
| 79    | 89   | 0.00              | 0.00              | 0.00              | -0.68             | -0.15             | 0.06              | 106  | 0.00              | 0.00              | 0.00              | 0.61              | 0.10              | -0.16             |
|       | 85   | 0.00              | 0.00              | 0.00              | 3.12              | 0.85              | 0.20              | 102  | 0.00              | 0.00              | 0.00              | -2.16             | -0.39             | -0.02             |
| 80    | 106  | 0.00              | 0.00              | 0.00              | -0.40             | -0.11             | 0.00              | 107  | 0.00              | 0.00              | 0.00              | 0.42              | 0.05              | -0.03             |
|       | 102  | 0.00              | 0.00              | 0.00              | 1.86              | 0.42              | -0.02             | 103  | 0.00              | 0.00              | 0.00              | -1.71             | -0.27             | -0.04             |
| 81    | 107  | 0.00              | 0.00              | 0.00              | -0.42             | -0.11             | -0.03             | 108  | 0.00              | 0.00              | 0.00              | 0.40              | 0.07              | 0.00              |
|       | 103  | 0.00              | 0.00              | 0.00              | 1.71              | 0.41              | -0.03             | 104  | 0.00              | 0.00              | 0.00              | -1.81             | -0.29             | -0.01             |
| 82    | 108  | 0.00              | 0.00              | 0.00              | -0.60             | -0.13             | -0.08             | 109  | 0.00              | 0.00              | 0.00              | 0.65              | 0.09              | 0.13              |
|       | 104  | 0.00              | 0.00              | 0.00              | 2.16              | 0.50              | -0.08             | 105  | 0.00              | 0.00              | 0.00              | -2.99             | -0.50             | 0.12              |
| 83    | 93   | 0.00              | 0.00              | 0.00              | 0.23              | 0.13              | 0.03              | 110  | 0.00              | 0.00              | 0.00              | -0.26             | -0.06             | 0.03              |
|       | 89   | 0.00              | 0.00              | 0.00              | -0.72             | -0.33             | -0.01             | 106  | 0.00              | 0.00              | 0.00              | 0.60              | 0.07              | 0.00              |
| 84    | 110  | 0.00              | 0.00              | 0.00              | 0.19              | 0.02              | 0.00              | 111  | 0.00              | 0.00              | 0.00              | -0.17             | -0.05             | 0.00              |
|       | 106  | 0.00              | 0.00              | 0.00              | -0.41             | -0.13             | -0.02             | 107  | 0.00              | 0.00              | 0.00              | 0.42              | 0.06              | -0.02             |
| 85    | 111  | 0.00              | 0.00              | 0.00              | 0.19              | 0.03              | 0.00              | 112  | 0.00              | 0.00              | 0.00              | -0.19             | -0.04             | 0.00              |
|       | 107  | 0.00              | 0.00              | 0.00              | -0.42             | -0.11             | -0.01             | 108  | 0.00              | 0.00              | 0.00              | 0.40              | 0.06              | -0.01             |
| 86    | 112  | 0.00              | 0.00              | 0.00              | 0.25              | 0.05              | 0.01              | 113  | 0.00              | 0.00              | 0.00              | -0.28             | -0.07             | -0.01             |
|       | 108  | 0.00              | 0.00              | 0.00              | -0.60             | -0.14             | 0.03              | 109  | 0.00              | 0.00              | 0.00              | 0.65              | 0.09              | 0.01              |
| 87    | 97   | 0.00              | 0.00              | 0.00              | -0.71             | -0.33             | 0.00              | 114  | 0.00              | 0.00              | 0.00              | 0.61              | 0.08              | 0.00              |
|       | 93   | 0.00              | 0.00              | 0.00              | 0.23              | 0.14              | -0.03             | 110  | 0.00              | 0.00              | 0.00              | -0.26             | -0.07             | -0.03             |
| 88    | 114  | 0.00              | 0.00              | 0.00              | -0.41             | -0.12             | 0.01              | 115  | 0.00              | 0.00              | 0.00              | 0.42              | 0.06              | 0.01              |



TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 110  | 0.00              | 0.00              | 0.00              | 0.19              | 0.02              | 0.00              | 111  | 0.00              | 0.00              | 0.00              | -0.17             | -0.05             | 0.00              |
| 89    | 115  | 0.00              | 0.00              | 0.00              | -0.42             | -0.10             | 0.01              | 116  | 0.00              | 0.00              | 0.00              | 0.40              | 0.06              | 0.01              |
|       | 111  | 0.00              | 0.00              | 0.00              | 0.19              | 0.03              | 0.00              | 112  | 0.00              | 0.00              | 0.00              | -0.19             | -0.04             | 0.00              |
| 90    | 116  | 0.00              | 0.00              | 0.00              | -0.60             | -0.14             | -0.03             | 117  | 0.00              | 0.00              | 0.00              | 0.65              | 0.10              | -0.01             |
|       | 112  | 0.00              | 0.00              | 0.00              | 0.25              | 0.05              | -0.01             | 113  | 0.00              | 0.00              | 0.00              | -0.28             | -0.07             | 0.01              |
| 91    | 101  | 0.00              | 0.00              | 0.00              | 3.13              | 0.80              | -0.20             | 118  | 0.00              | 0.00              | 0.00              | -2.18             | -0.42             | 0.02              |
|       | 97   | 0.00              | 0.00              | 0.00              | -0.67             | -0.12             | -0.06             | 114  | 0.00              | 0.00              | 0.00              | 0.61              | 0.11              | 0.16              |
| 92    | 118  | 0.00              | 0.00              | 0.00              | 1.86              | 0.39              | 0.01              | 119  | 0.00              | 0.00              | 0.00              | -1.72             | -0.30             | 0.04              |
|       | 114  | 0.00              | 0.00              | 0.00              | -0.40             | -0.10             | 0.00              | 115  | 0.00              | 0.00              | 0.00              | 0.42              | 0.06              | 0.02              |
| 93    | 119  | 0.00              | 0.00              | 0.00              | 1.71              | 0.39              | 0.03              | 120  | 0.00              | 0.00              | 0.00              | -1.81             | -0.32             | 0.01              |
|       | 115  | 0.00              | 0.00              | 0.00              | -0.42             | -0.11             | 0.02              | 116  | 0.00              | 0.00              | 0.00              | 0.40              | 0.07              | 0.00              |
| 94    | 120  | 0.00              | 0.00              | 0.00              | 2.16              | 0.48              | 0.08              | 121  | 0.00              | 0.00              | 0.00              | -3.00             | -0.53             | -0.13             |
|       | 116  | 0.00              | 0.00              | 0.00              | -0.60             | -0.13             | 0.08              | 117  | 0.00              | 0.00              | 0.00              | 0.65              | 0.10              | -0.13             |
| 95    | 109  | 0.00              | 0.00              | 0.00              | -0.70             | -0.18             | 0.14              | 126  | 0.00              | 0.00              | 0.00              | 0.58              | 0.06              | -0.08             |
|       | 105  | 0.00              | 0.00              | 0.00              | 3.06              | 0.71              | 0.15              | 122  | 0.00              | 0.00              | 0.00              | -2.06             | -0.31             | -0.07             |
| 96    | 126  | 0.00              | 0.00              | 0.00              | -0.40             | -0.14             | 0.02              | 127  | 0.00              | 0.00              | 0.00              | 0.39              | 0.01              | 0.00              |
|       | 122  | 0.00              | 0.00              | 0.00              | 1.76              | 0.46              | -0.01             | 123  | 0.00              | 0.00              | 0.00              | -1.59             | -0.18             | -0.03             |
| 97    | 127  | 0.00              | 0.00              | 0.00              | -0.42             | -0.15             | 0.00              | 128  | 0.00              | 0.00              | 0.00              | 0.37              | 0.00              | 0.03              |
|       | 123  | 0.00              | 0.00              | 0.00              | 1.65              | 0.47              | -0.03             | 124  | 0.00              | 0.00              | 0.00              | -1.75             | -0.16             | 0.00              |
| 98    | 128  | 0.00              | 0.00              | 0.00              | -0.63             | -0.20             | -0.06             | 129  | 0.00              | 0.00              | 0.00              | 0.66              | 0.02              | 0.17              |
|       | 124  | 0.00              | 0.00              | 0.00              | 2.15              | 0.62              | -0.07             | 125  | 0.00              | 0.00              | 0.00              | -3.10             | -0.37             | 0.16              |
| 99    | 113  | 0.00              | 0.00              | 0.00              | 0.30              | 0.05              | -0.02             | 130  | 0.00              | 0.00              | 0.00              | -0.26             | -0.07             | 0.01              |
|       | 109  | 0.00              | 0.00              | 0.00              | -0.70             | -0.18             | 0.01              | 126  | 0.00              | 0.00              | 0.00              | 0.58              | 0.05              | 0.04              |
| 100   | 130  | 0.00              | 0.00              | 0.00              | 0.19              | 0.02              | 0.00              | 131  | 0.00              | 0.00              | 0.00              | -0.17             | -0.05             | 0.00              |
|       | 126  | 0.00              | 0.00              | 0.00              | -0.40             | -0.14             | 0.00              | 127  | 0.00              | 0.00              | 0.00              | 0.39              | 0.01              | 0.00              |
| 101   | 131  | 0.00              | 0.00              | 0.00              | 0.18              | 0.02              | 0.00              | 132  | 0.00              | 0.00              | 0.00              | -0.19             | -0.06             | 0.00              |
|       | 127  | 0.00              | 0.00              | 0.00              | -0.42             | -0.15             | 0.01              | 128  | 0.00              | 0.00              | 0.00              | 0.37              | 0.00              | 0.01              |
| 102   | 132  | 0.00              | 0.00              | 0.00              | 0.27              | 0.03              | 0.01              | 133  | 0.00              | 0.00              | 0.00              | -0.32             | -0.10             | -0.02             |
|       | 128  | 0.00              | 0.00              | 0.00              | -0.63             | -0.20             | 0.05              | 129  | 0.00              | 0.00              | 0.00              | 0.66              | 0.02              | 0.03              |
| 103   | 117  | 0.00              | 0.00              | 0.00              | -0.70             | -0.17             | -0.01             | 134  | 0.00              | 0.00              | 0.00              | 0.58              | 0.05              | -0.04             |
|       | 113  | 0.00              | 0.00              | 0.00              | 0.30              | 0.05              | 0.02              | 130  | 0.00              | 0.00              | 0.00              | -0.26             | -0.07             | -0.01             |
| 104   | 134  | 0.00              | 0.00              | 0.00              | -0.40             | -0.14             | 0.00              | 135  | 0.00              | 0.00              | 0.00              | 0.39              | 0.01              | 0.00              |
|       | 130  | 0.00              | 0.00              | 0.00              | 0.19              | 0.02              | 0.00              | 131  | 0.00              | 0.00              | 0.00              | -0.17             | -0.05             | 0.00              |
| 105   | 135  | 0.00              | 0.00              | 0.00              | -0.42             | -0.15             | -0.01             | 136  | 0.00              | 0.00              | 0.00              | 0.37              | 0.00              | -0.01             |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 131  | 0.00              | 0.00              | 0.00              | 0.18              | 0.02              | 0.00              | 132  | 0.00              | 0.00              | 0.00              | -0.19             | -0.06             | 0.00              |
| 106   | 136  | 0.00              | 0.00              | 0.00              | -0.63             | -0.20             | -0.05             | 137  | 0.00              | 0.00              | 0.00              | 0.66              | 0.02              | -0.03             |
|       | 132  | 0.00              | 0.00              | 0.00              | 0.27              | 0.03              | -0.01             | 133  | 0.00              | 0.00              | 0.00              | -0.32             | -0.10             | 0.02              |
| 107   | 121  | 0.00              | 0.00              | 0.00              | 3.06              | 0.68              | -0.15             | 138  | 0.00              | 0.00              | 0.00              | -2.07             | -0.33             | 0.07              |
|       | 117  | 0.00              | 0.00              | 0.00              | -0.70             | -0.17             | -0.14             | 134  | 0.00              | 0.00              | 0.00              | 0.58              | 0.06              | 0.08              |
| 108   | 138  | 0.00              | 0.00              | 0.00              | 1.76              | 0.44              | 0.01              | 139  | 0.00              | 0.00              | 0.00              | -1.60             | -0.19             | 0.03              |
|       | 134  | 0.00              | 0.00              | 0.00              | -0.40             | -0.14             | -0.02             | 135  | 0.00              | 0.00              | 0.00              | 0.39              | 0.01              | 0.00              |
| 109   | 139  | 0.00              | 0.00              | 0.00              | 1.65              | 0.45              | 0.03              | 140  | 0.00              | 0.00              | 0.00              | -1.76             | -0.18             | 0.00              |
|       | 135  | 0.00              | 0.00              | 0.00              | -0.42             | -0.15             | 0.00              | 136  | 0.00              | 0.00              | 0.00              | 0.37              | 0.00              | -0.03             |
| 110   | 140  | 0.00              | 0.00              | 0.00              | 2.14              | 0.60              | 0.07              | 141  | 0.00              | 0.00              | 0.00              | -3.11             | -0.40             | -0.17             |
|       | 136  | 0.00              | 0.00              | 0.00              | -0.63             | -0.20             | 0.06              | 137  | 0.00              | 0.00              | 0.00              | 0.66              | 0.02              | -0.17             |
| 111   | 129  | 0.00              | 0.00              | 0.00              | -0.69             | -0.25             | 0.17              | 146  | 0.00              | 0.00              | 0.00              | 0.48              | -0.07             | -0.05             |
|       | 125  | 0.00              | 0.00              | 0.00              | 2.97              | 0.84              | 0.16              | 142  | 0.00              | 0.00              | 0.00              | -1.99             | -0.09             | -0.06             |
| 112   | 146  | 0.00              | 0.00              | 0.00              | -0.42             | -0.25             | 0.06              | 147  | 0.00              | 0.00              | 0.00              | 0.15              | -0.17             | -0.02             |
|       | 142  | 0.00              | 0.00              | 0.00              | 1.58              | 0.63              | 0.03              | 143  | 0.00              | 0.00              | 0.00              | -1.27             | 0.13              | -0.05             |
| 113   | 147  | 0.00              | 0.00              | 0.00              | -0.44             | -0.29             | -0.04             | 148  | 0.00              | 0.00              | 0.00              | 0.10              | -0.13             | -0.07             |
|       | 143  | 0.00              | 0.00              | 0.00              | 1.15              | 0.62              | 0.02              | 144  | 0.00              | 0.00              | 0.00              | -1.13             | 0.03              | -0.02             |
| 114   | 148  | 0.00              | 0.00              | 0.00              | -0.28             | -0.21             | 0.00              | 149  | 0.00              | 0.00              | 0.00              | 0.18              | -0.19             | -0.26             |
|       | 144  | 0.00              | 0.00              | 0.00              | 0.73              | 0.41              | 0.06              | 145  | 0.00              | 0.00              | 0.00              | 0.57              | 0.37              | -0.21             |
| 115   | 133  | 0.00              | 0.00              | 0.00              | 0.26              | 0.02              | -0.02             | 150  | 0.00              | 0.00              | 0.00              | -0.32             | -0.11             | 0.01              |
|       | 129  | 0.00              | 0.00              | 0.00              | -0.69             | -0.25             | 0.03              | 146  | 0.00              | 0.00              | 0.00              | 0.48              | -0.07             | 0.05              |
| 116   | 150  | 0.00              | 0.00              | 0.00              | 0.08              | -0.03             | 0.00              | 151  | 0.00              | 0.00              | 0.00              | -0.32             | -0.10             | -0.01             |
|       | 146  | 0.00              | 0.00              | 0.00              | -0.42             | -0.25             | 0.00              | 147  | 0.00              | 0.00              | 0.00              | 0.16              | -0.14             | 0.00              |
| 117   | 151  | 0.00              | 0.00              | 0.00              | -0.06             | -0.05             | 0.00              | 152  | 0.00              | 0.00              | 0.00              | -0.28             | -0.07             | -0.01             |
|       | 147  | 0.00              | 0.00              | 0.00              | -0.44             | -0.26             | -0.03             | 148  | 0.00              | 0.00              | 0.00              | 0.10              | -0.14             | -0.04             |
| 118   | 152  | 0.00              | 0.00              | 0.00              | -0.16             | -0.04             | 0.01              | 153  | 0.00              | 0.00              | 0.00              | 0.46              | -0.03             | 0.09              |
|       | 148  | 0.00              | 0.00              | 0.00              | -0.28             | -0.21             | -0.13             | 149  | 0.00              | 0.00              | 0.00              | 0.25              | 0.18              | -0.05             |
| 119   | 137  | 0.00              | 0.00              | 0.00              | -0.69             | -0.25             | -0.03             | 154  | 0.00              | 0.00              | 0.00              | 0.48              | -0.07             | -0.05             |
|       | 133  | 0.00              | 0.00              | 0.00              | 0.26              | 0.02              | 0.02              | 150  | 0.00              | 0.00              | 0.00              | -0.32             | -0.11             | -0.01             |
| 120   | 154  | 0.00              | 0.00              | 0.00              | -0.42             | -0.25             | 0.00              | 155  | 0.00              | 0.00              | 0.00              | 0.15              | -0.15             | 0.00              |
|       | 150  | 0.00              | 0.00              | 0.00              | 0.08              | -0.03             | 0.00              | 151  | 0.00              | 0.00              | 0.00              | -0.32             | -0.10             | 0.00              |
| 121   | 155  | 0.00              | 0.00              | 0.00              | -0.44             | -0.26             | 0.03              | 156  | 0.00              | 0.00              | 0.00              | 0.10              | -0.14             | 0.04              |
|       | 151  | 0.00              | 0.00              | 0.00              | -0.06             | -0.05             | -0.01             | 152  | 0.00              | 0.00              | 0.00              | -0.28             | -0.07             | 0.00              |
| 122   | 156  | 0.00              | 0.00              | 0.00              | -0.28             | -0.21             | 0.12              | 157  | 0.00              | 0.00              | 0.00              | 0.27              | 0.18              | 0.05              |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 152  | 0.00  | 0.00  | 0.00  | -0.16 | -0.04 | -0.01 | 153  | 0.00  | 0.00  | 0.00  | 0.47  | -0.02 | -0.09 |
| 123   | 141  | 0.00  | 0.00  | 0.00  | 2.97  | 0.82  | -0.16 | 158  | 0.00  | 0.00  | 0.00  | -2.00 | -0.10 | 0.06  |
|       | 137  | 0.00  | 0.00  | 0.00  | -0.69 | -0.25 | -0.18 | 154  | 0.00  | 0.00  | 0.00  | 0.48  | -0.08 | 0.05  |
| 124   | 158  | 0.00  | 0.00  | 0.00  | 1.58  | 0.62  | -0.03 | 159  | 0.00  | 0.00  | 0.00  | -1.27 | 0.12  | 0.05  |
|       | 154  | 0.00  | 0.00  | 0.00  | -0.42 | -0.26 | -0.06 | 155  | 0.00  | 0.00  | 0.00  | 0.15  | -0.18 | 0.02  |
| 125   | 159  | 0.00  | 0.00  | 0.00  | 1.14  | 0.60  | -0.02 | 160  | 0.00  | 0.00  | 0.00  | -1.13 | 0.01  | 0.02  |
|       | 155  | 0.00  | 0.00  | 0.00  | -0.45 | -0.30 | 0.04  | 156  | 0.00  | 0.00  | 0.00  | 0.10  | -0.13 | 0.07  |
| 126   | 160  | 0.00  | 0.00  | 0.00  | 0.70  | 0.38  | -0.06 | 161  | 0.00  | 0.00  | 0.00  | 0.61  | 0.35  | 0.21  |
|       | 156  | 0.00  | 0.00  | 0.00  | -0.28 | -0.21 | -0.01 | 157  | 0.00  | 0.00  | 0.00  | 0.20  | -0.17 | 0.26  |
| 127   | 162  | 1.15  | 1.88  | 0.38  | 0.13  | 0.65  | 0.02  | 301  | 0.44  | -1.68 | 1.76  | -0.03 | -0.17 | 0.02  |
|       | 18   | 1.15  | 1.88  | -2.03 | -0.10 | -0.51 | -0.02 | 283  | 0.44  | -1.68 | -0.65 | 0.09  | 0.47  | -0.02 |
| 128   | 163  | 0.26  | -1.44 | 0.55  | -0.01 | -0.03 | 0.06  | 304  | 0.51  | -0.17 | 4.10  | 0.00  | -0.01 | 0.06  |
|       | 19   | 0.26  | -1.44 | -3.93 | -0.10 | -0.49 | -0.07 | 22   | 0.51  | -0.17 | -0.38 | 0.00  | 0.01  | -0.07 |
| 129   | 164  | 0.09  | -1.16 | 2.15  | -0.03 | -0.16 | 0.00  | 310  | 0.30  | -0.12 | 1.38  | 0.01  | 0.04  | 0.00  |
|       | 11   | 0.09  | -1.16 | -0.70 | 0.03  | 0.13  | 0.00  | 307  | 0.30  | -0.12 | -1.48 | -0.01 | -0.03 | 0.00  |
| 130   | 166  | 0.04  | -1.49 | 1.55  | 0.00  | -0.01 | 0.00  | 316  | 0.33  | -0.04 | 2.35  | 0.00  | 0.00  | 0.00  |
|       | 165  | 0.04  | -1.49 | -1.70 | 0.00  | -0.01 | 0.00  | 313  | 0.33  | -0.04 | -0.91 | 0.00  | 0.00  | 0.00  |
| 131   | 167  | 0.08  | -1.07 | 0.87  | 0.02  | 0.12  | 0.01  | 319  | 0.28  | -0.05 | 2.96  | -0.01 | -0.03 | 0.01  |
|       | 12   | 0.08  | -1.07 | -2.15 | -0.03 | -0.14 | -0.01 | 82   | 0.28  | -0.05 | -0.06 | 0.03  | 0.13  | -0.01 |
| 132   | 168  | 0.11  | -1.24 | 0.77  | -0.03 | -0.17 | -0.07 | 322  | 0.34  | -0.09 | 3.86  | 0.01  | 0.06  | -0.07 |
|       | 85   | 0.11  | -1.24 | -3.14 | 0.12  | 0.60  | 0.07  | 102  | 0.34  | -0.09 | -0.05 | -0.06 | -0.29 | 0.07  |
| 133   | 169  | 0.14  | -1.31 | 0.69  | 0.01  | 0.07  | -0.03 | 325  | 0.38  | -0.09 | 3.79  | 0.00  | -0.01 | -0.03 |
|       | 105  | 0.14  | -1.31 | -3.27 | -0.01 | -0.04 | 0.03  | 122  | 0.38  | -0.09 | -0.18 | -0.05 | -0.25 | 0.03  |
| 134   | 170  | 0.16  | -1.21 | 0.46  | 0.04  | 0.19  | -0.04 | 328  | 0.37  | -0.16 | 3.60  | 0.00  | -0.02 | -0.04 |
|       | 125  | 0.16  | -1.21 | -3.54 | -0.05 | -0.23 | 0.04  | 142  | 0.37  | -0.16 | -0.41 | -0.07 | -0.37 | 0.04  |
| 135   | 172  | 1.13  | 1.80  | 0.40  | -0.17 | -0.85 | -0.01 | 331  | 0.44  | -1.66 | 1.74  | 0.04  | 0.21  | -0.01 |
|       | 20   | 1.13  | 1.80  | -2.07 | 0.13  | 0.65  | 0.01  | 298  | 0.44  | -1.66 | -0.72 | -0.10 | -0.49 | 0.01  |
| 136   | 173  | 0.25  | -1.46 | 0.56  | 0.02  | 0.10  | 0.02  | 334  | 0.51  | -0.16 | 4.09  | -0.01 | -0.03 | 0.02  |
|       | 21   | 0.25  | -1.46 | -3.98 | -0.04 | -0.21 | -0.03 | 37   | 0.51  | -0.16 | -0.45 | 0.02  | 0.12  | -0.03 |
| 137   | 174  | 0.13  | -0.98 | 0.88  | 0.01  | 0.03  | -0.02 | 337  | 0.29  | -0.21 | 3.51  | 0.00  | 0.00  | -0.02 |
|       | 41   | 0.13  | -0.98 | -2.79 | 0.04  | 0.19  | 0.02  | 59   | 0.29  | -0.21 | -0.16 | 0.00  | 0.02  | 0.02  |
| 138   | 175  | 0.03  | -1.03 | 0.57  | 0.00  | -0.02 | 0.01  | 340  | 0.24  | 0.01  | 3.33  | 0.00  | 0.00  | 0.01  |
|       | 62   | 0.03  | -1.03 | -2.60 | 0.00  | -0.02 | -0.01 | 78   | 0.24  | 0.01  | 0.16  | 0.02  | 0.10  | -0.01 |
| 139   | 176  | 0.07  | -1.21 | 0.38  | 0.00  | 0.00  | 0.07  | 343  | 0.32  | 0.04  | 3.82  | -0.01 | -0.03 | 0.07  |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 81   | 0.07  | -1.21 | -3.26 | -0.06 | -0.32 | -0.07 | 98   | 0.32  | 0.04  | 0.18  | 0.07  | 0.34  | -0.07 |
| 140   | 177  | 0.11  | -1.23 | 0.73  | 0.04  | 0.18  | 0.06  | 346  | 0.34  | -0.09 | 3.82  | -0.01 | -0.06 | 0.06  |
|       | 101  | 0.11  | -1.23 | -3.18 | -0.12 | -0.59 | -0.07 | 118  | 0.34  | -0.09 | -0.08 | 0.05  | 0.27  | -0.07 |
| 141   | 178  | 0.14  | -1.31 | 0.67  | 0.00  | 0.01  | 0.02  | 349  | 0.38  | -0.09 | 3.77  | 0.00  | -0.01 | 0.02  |
|       | 121  | 0.14  | -1.31 | -3.30 | 0.00  | 0.00  | -0.02 | 138  | 0.38  | -0.09 | -0.20 | 0.05  | 0.24  | -0.02 |
| 142   | 179  | 0.16  | -1.21 | 0.43  | -0.02 | -0.08 | 0.03  | 352  | 0.37  | -0.16 | 3.57  | 0.00  | 0.00  | 0.03  |
|       | 141  | 0.16  | -1.21 | -3.57 | 0.04  | 0.19  | -0.03 | 158  | 0.37  | -0.16 | -0.43 | 0.07  | 0.37  | -0.03 |
| 143   | 162  | -0.05 | -0.19 | -0.19 | 2.33  | 11.63 | -0.61 | 355  | 0.02  | 0.16  | -0.34 | -0.62 | -3.12 | -0.61 |
|       | 18   | -0.05 | -0.19 | -0.21 | -0.70 | -3.50 | 0.61  | 286  | 0.02  | 0.16  | -0.36 | 0.19  | 0.97  | 0.61  |
| 144   | 171  | 0.02  | 0.09  | 0.20  | 2.27  | 11.36 | -0.59 | 358  | -0.01 | -0.09 | 0.34  | -0.61 | -3.05 | -0.59 |
|       | 145  | 0.02  | 0.09  | 0.20  | -0.71 | -3.53 | 0.59  | 149  | -0.01 | -0.09 | 0.33  | 0.20  | 1.01  | 0.59  |
| 145   | 164  | 0.05  | 0.22  | -0.03 | 2.80  | 14.01 | -0.50 | 361  | -0.01 | -0.10 | 0.08  | -0.68 | -3.38 | -0.50 |
|       | 11   | 0.05  | 0.22  | 0.05  | -1.72 | -8.58 | 0.50  | 266  | -0.01 | -0.10 | 0.16  | 0.66  | 3.28  | 0.50  |
| 146   | 181  | -0.01 | -0.01 | 0.18  | 0.14  | 0.71  | -0.12 | 362  | -0.01 | -0.02 | 0.08  | 0.00  | -0.02 | -0.12 |
|       | 13   | -0.01 | -0.01 | 0.13  | 0.15  | 0.76  | 0.11  | 277  | -0.01 | -0.02 | 0.03  | 0.15  | 0.74  | 0.11  |
| 147   | 167  | -0.03 | -0.13 | -0.02 | 2.71  | 13.54 | -0.52 | 363  | 0.01  | 0.06  | -0.13 | -0.65 | -3.27 | -0.52 |
|       | 12   | -0.03 | -0.13 | -0.08 | -1.68 | -8.41 | 0.52  | 280  | 0.01  | 0.06  | -0.19 | 0.54  | 2.71  | 0.52  |
| 148   | 183  | 0.00  | 0.00  | -0.21 | 0.14  | 0.70  | -0.11 | 364  | 0.01  | 0.02  | -0.11 | 0.00  | -0.02 | -0.11 |
|       | 17   | 0.00  | 0.00  | -0.16 | 0.08  | 0.39  | 0.11  | 282  | 0.01  | 0.02  | -0.05 | 0.08  | 0.40  | 0.11  |
| 149   | 182  | 0.04  | 0.05  | 0.29  | -0.05 | -0.24 | 0.01  | 365  | 0.01  | -0.07 | 0.32  | 0.01  | 0.06  | 0.01  |
|       | 16   | 0.04  | 0.05  | 0.14  | 0.05  | 0.27  | -0.01 | 42   | 0.01  | -0.07 | 0.18  | 0.02  | 0.09  | -0.01 |
| 150   | 185  | 0.00  | 0.00  | 0.24  | 0.00  | 0.00  | -0.01 | 368  | 0.00  | 0.00  | 0.23  | 0.00  | 0.00  | -0.01 |
|       | 15   | 0.00  | 0.00  | 0.24  | 0.00  | 0.01  | 0.00  | 63   | 0.00  | 0.00  | 0.23  | -0.01 | -0.03 | 0.00  |
| 151   | 217  | -0.14 | 0.01  | -0.06 | 0.16  | 0.06  | 0.00  | 218  | -0.14 | 0.00  | -0.08 | 0.03  | 0.05  | -0.03 |
|       | 213  | -0.18 | 0.01  | 0.05  | 0.17  | -0.01 | -0.02 | 214  | -0.18 | -0.01 | 0.03  | 0.07  | 0.00  | -0.05 |
| 152   | 218  | -0.08 | 0.01  | -0.06 | 0.04  | 0.06  | -0.03 | 219  | -0.08 | -0.01 | -0.11 | -0.06 | 0.07  | -0.04 |
|       | 214  | -0.05 | 0.01  | 0.06  | 0.08  | 0.00  | -0.07 | 215  | -0.05 | 0.00  | 0.01  | -0.08 | 0.04  | -0.09 |
| 153   | 219  | -0.10 | 0.01  | -0.04 | -0.24 | 0.03  | -0.24 | 220  | -0.10 | 0.01  | -0.16 | 0.22  | 0.08  | 0.30  |
|       | 215  | 0.18  | 0.07  | 0.04  | 0.19  | 0.09  | -0.17 | 2    | 0.18  | 0.06  | -0.07 | -1.65 | -0.39 | 0.37  |
| 154   | 3    | -0.18 | 0.01  | -0.01 | 0.50  | 0.12  | 0.01  | 221  | -0.18 | -0.02 | 0.01  | 0.08  | 0.11  | 0.05  |
|       | 216  | -0.16 | 0.01  | 0.02  | 0.29  | 0.05  | -0.03 | 217  | -0.17 | -0.02 | 0.04  | 0.18  | 0.06  | 0.00  |
| 155   | 221  | -0.12 | 0.00  | -0.03 | 0.11  | 0.11  | 0.00  | 222  | -0.12 | 0.00  | -0.04 | 0.02  | 0.08  | -0.03 |
|       | 217  | -0.14 | 0.00  | 0.03  | 0.16  | 0.05  | 0.00  | 218  | -0.13 | 0.00  | 0.01  | 0.03  | 0.05  | -0.03 |
| 156   | 222  | -0.08 | 0.01  | -0.03 | 0.01  | 0.08  | -0.03 | 223  | -0.08 | 0.03  | -0.06 | -0.02 | 0.04  | -0.02 |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 218  | -0.08             | 0.01              | 0.04              | 0.04              | 0.05              | -0.04             | 219  | -0.08             | 0.03              | 0.01              | -0.06             | 0.08              | -0.03             |
| 157   | 223  | -0.03             | 0.03              | -0.04             | 0.03              | 0.05              | 0.00              | 4    | -0.04             | -0.01             | -0.06             | -0.12             | -0.01             | -0.03             |
|       | 219  | -0.07             | 0.03              | 0.08              | -0.23             | 0.05              | 0.04              | 220  | -0.08             | -0.02             | 0.06              | 0.22              | 0.07              | 0.02              |
| 158   | 227  | 0.01              | 0.01              | -0.12             | 0.07              | -0.06             | -0.03             | 228  | 0.00              | 0.00              | -0.07             | -0.02             | -0.03             | -0.03             |
|       | 224  | -0.04             | 0.00              | 0.01              | 0.11              | -0.02             | -0.07             | 225  | -0.04             | -0.01             | 0.06              | -0.05             | 0.00              | -0.07             |
| 159   | 228  | 0.06              | 0.00              | -0.09             | -0.02             | -0.03             | -0.03             | 229  | 0.06              | -0.01             | -0.09             | -0.12             | -0.03             | -0.01             |
|       | 225  | 0.12              | 0.01              | 0.03              | -0.04             | 0.00              | -0.06             | 226  | 0.11              | 0.00              | 0.04              | -0.13             | 0.01              | -0.04             |
| 160   | 229  | 0.04              | 0.03              | -0.07             | -0.16             | -0.04             | -0.08             | 230  | 0.02              | -0.06             | -0.07             | -0.15             | -0.08             | 0.06              |
|       | 226  | 0.36              | 0.10              | -0.03             | -0.07             | 0.02              | -0.04             | 5    | 0.34              | 0.01              | -0.02             | -0.59             | -0.13             | 0.10              |
| 161   | 4    | -0.02             | 0.01              | -0.06             | 0.13              | 0.04              | -0.03             | 231  | -0.03             | -0.03             | -0.05             | -0.04             | -0.02             | 0.00              |
|       | 220  | 0.00              | 0.02              | 0.06              | -0.24             | -0.02             | 0.03              | 227  | -0.01             | -0.02             | 0.07              | 0.23              | -0.03             | 0.06              |
| 162   | 231  | 0.02              | -0.03             | -0.06             | 0.02              | -0.01             | -0.01             | 232  | 0.02              | 0.00              | -0.04             | -0.01             | -0.05             | -0.03             |
|       | 227  | 0.00              | -0.03             | 0.01              | 0.07              | -0.06             | -0.02             | 228  | 0.01              | -0.01             | 0.03              | -0.02             | -0.03             | -0.03             |
| 163   | 232  | 0.04              | 0.00              | -0.05             | -0.02             | -0.05             | -0.03             | 233  | 0.04              | 0.01              | -0.04             | -0.09             | -0.08             | -0.01             |
|       | 228  | 0.05              | 0.00              | 0.00              | -0.02             | -0.03             | -0.03             | 229  | 0.06              | 0.01              | 0.02              | -0.12             | -0.03             | -0.01             |
| 164   | 233  | 0.10              | 0.02              | -0.03             | -0.06             | -0.08             | 0.02              | 6    | 0.08              | -0.04             | -0.03             | -0.31             | -0.07             | 0.00              |
|       | 229  | 0.08              | 0.02              | 0.04              | -0.16             | -0.04             | 0.00              | 230  | 0.07              | -0.05             | 0.04              | -0.14             | -0.03             | -0.02             |
| 165   | 235  | 0.01              | -0.01             | -0.02             | 0.00              | -0.01             | -0.03             | 236  | 0.01              | -0.01             | -0.03             | 0.00              | -0.02             | -0.04             |
|       | 231  | 0.02              | 0.00              | 0.08              | 0.02              | -0.02             | -0.02             | 232  | 0.02              | 0.00              | 0.07              | -0.01             | -0.05             | -0.03             |
| 166   | 236  | 0.04              | 0.00              | -0.02             | -0.01             | -0.02             | -0.04             | 237  | 0.04              | 0.00              | -0.02             | -0.04             | -0.05             | -0.01             |
|       | 232  | 0.04              | 0.00              | 0.06              | -0.02             | -0.05             | -0.03             | 233  | 0.04              | 0.00              | 0.06              | -0.09             | -0.08             | 0.00              |
| 167   | 237  | 0.08              | 0.00              | -0.02             | -0.04             | -0.05             | 0.00              | 238  | 0.08              | -0.04             | -0.04             | -0.19             | -0.03             | 0.09              |
|       | 233  | 0.10              | 0.00              | 0.07              | -0.06             | -0.08             | -0.03             | 6    | 0.09              | -0.03             | 0.05              | -0.32             | -0.09             | 0.06              |
| 168   | 7    | -0.02             | 0.00              | 0.01              | 0.02              | 0.00              | -0.02             | 239  | -0.02             | -0.01             | 0.01              | -0.02             | 0.02              | -0.03             |
|       | 234  | -0.01             | 0.00              | 0.12              | -0.02             | 0.00              | -0.02             | 235  | -0.01             | -0.01             | 0.11              | 0.02              | -0.01             | -0.03             |
| 169   | 239  | 0.01              | 0.00              | 0.01              | 0.03              | 0.03              | -0.03             | 240  | 0.01              | 0.00              | 0.00              | -0.01             | 0.07              | -0.03             |
|       | 235  | 0.02              | 0.00              | 0.11              | 0.00              | -0.01             | -0.04             | 236  | 0.01              | 0.00              | 0.10              | 0.00              | -0.02             | -0.04             |
| 170   | 240  | 0.04              | 0.01              | 0.01              | 0.04              | 0.07              | -0.03             | 241  | 0.03              | -0.01             | -0.01             | 0.02              | 0.14              | -0.01             |
|       | 236  | 0.04              | 0.01              | 0.11              | -0.01             | -0.02             | -0.05             | 237  | 0.04              | -0.01             | 0.09              | -0.04             | -0.05             | -0.02             |
| 171   | 241  | 0.04              | 0.01              | 0.04              | 0.01              | 0.14              | -0.05             | 8    | 0.04              | -0.01             | -0.03             | 0.01              | 0.04              | 0.08              |
|       | 237  | 0.08              | 0.01              | 0.09              | -0.03             | -0.05             | -0.02             | 238  | 0.07              | 0.00              | 0.03              | -0.20             | -0.10             | 0.11              |
| 172   | 243  | -0.10             | 0.01              | -0.02             | 0.05              | 0.06              | -0.01             | 244  | -0.10             | 0.01              | -0.02             | 0.00              | 0.03              | -0.05             |
|       | 221  | -0.12             | 0.00              | 0.05              | 0.12              | 0.12              | 0.00              | 222  | -0.12             | 0.01              | 0.06              | 0.02              | 0.07              | -0.04             |
| 173   | 244  | -0.06             | 0.01              | -0.02             | -0.01             | 0.03              | -0.05             | 245  | -0.06             | 0.01              | -0.02             | 0.00              | 0.02              | -0.03             |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 222  | -0.08             | 0.01              | 0.07              | 0.01              | 0.07              | -0.04             | 223  | -0.09             | 0.00              | 0.08              | -0.02             | 0.05              | -0.03             |
| 174   | 245  | -0.03             | 0.02              | -0.02             | -0.02             | 0.02              | -0.05             | 234  | -0.04             | 0.00              | -0.02             | 0.02              | 0.01              | 0.01              |
|       | 223  | -0.04             | 0.02              | 0.09              | 0.04              | 0.06              | -0.04             | 4    | -0.05             | 0.00              | 0.09              | -0.12             | -0.01             | 0.02              |
| 175   | 9    | -0.06             | 0.01              | -0.03             | -0.02             | 0.00              | 0.14              | 246  | -0.06             | 0.00              | 0.04              | 0.00              | -0.20             | -0.07             |
|       | 242  | -0.15             | -0.01             | 0.01              | 0.33              | 0.10              | 0.19              | 243  | -0.15             | -0.02             | 0.08              | 0.04              | 0.07              | -0.02             |
| 176   | 246  | -0.07             | 0.02              | -0.02             | -0.04             | -0.20             | 0.00              | 247  | -0.07             | 0.00              | 0.01              | -0.04             | -0.10             | -0.04             |
|       | 243  | -0.10             | 0.01              | 0.07              | 0.05              | 0.07              | -0.02             | 244  | -0.10             | -0.01             | 0.10              | 0.00              | 0.03              | -0.06             |
| 177   | 247  | -0.05             | 0.01              | -0.01             | 0.00              | -0.09             | -0.03             | 248  | -0.05             | 0.00              | 0.01              | -0.03             | -0.04             | -0.02             |
|       | 244  | -0.07             | 0.00              | 0.09              | -0.01             | 0.03              | -0.04             | 245  | -0.07             | 0.00              | 0.11              | 0.00              | 0.02              | -0.04             |
| 178   | 248  | -0.01             | 0.01              | 0.01              | 0.02              | -0.03             | -0.03             | 7    | -0.01             | 0.00              | 0.02              | -0.02             | -0.01             | -0.02             |
|       | 245  | -0.04             | 0.01              | 0.11              | -0.02             | 0.02              | -0.03             | 234  | -0.04             | 0.00              | 0.12              | 0.02              | 0.01              | -0.02             |
| 179   | 254  | -0.04             | 0.01              | 0.39              | 0.00              | 0.00              | 0.01              | 255  | -0.05             | -0.02             | -0.05             | 0.01              | 0.00              | -0.01             |
|       | 249  | -0.15             | -0.01             | 0.18              | 0.01              | 0.00              | 0.01              | 250  | -0.16             | -0.04             | -0.26             | 0.01              | -0.01             | 0.00              |
| 180   | 255  | -0.09             | 0.04              | 0.36              | 0.03              | 0.00              | 0.03              | 256  | -0.08             | 0.10              | 0.20              | -0.01             | 0.00              | -0.06             |
|       | 250  | -0.38             | -0.01             | -0.06             | -0.03             | -0.02             | 0.02              | 2    | -0.37             | 0.04              | -0.22             | 0.17              | 0.06              | -0.07             |
| 181   | 256  | 0.06              | -0.08             | 0.21              | 0.01              | 0.00              | -0.06             | 257  | 0.07              | -0.04             | 0.37              | -0.03             | 0.00              | 0.03              |
|       | 2    | 0.33              | -0.03             | -0.21             | -0.16             | 0.00              | -0.06             | 251  | 0.34              | 0.01              | -0.05             | 0.03              | 0.00              | 0.03              |
| 182   | 257  | 0.02              | 0.01              | -0.05             | -0.01             | 0.01              | 0.00              | 258  | 0.01              | 0.00              | 0.40              | 0.01              | -0.01             | 0.01              |
|       | 251  | 0.08              | 0.03              | -0.26             | -0.01             | 0.00              | 0.00              | 252  | 0.08              | 0.01              | 0.19              | 0.00              | 0.00              | 0.01              |
| 183   | 258  | 0.05              | -0.03             | -0.21             | 0.02              | -0.01             | 0.02              | 259  | 0.07              | 0.07              | 0.47              | -0.04             | -0.05             | -0.02             |
|       | 252  | -0.28             | -0.10             | -0.29             | -0.02             | 0.00              | 0.03              | 5    | -0.26             | 0.00              | 0.39              | 0.06              | -0.01             | -0.01             |
| 184   | 11   | -0.01             | -0.11             | 0.36              | -0.04             | -0.18             | 0.02              | 260  | 0.02              | 0.02              | -0.07             | 0.01              | 0.04              | 0.01              |
|       | 253  | -0.11             | -0.13             | 0.15              | 0.05              | 0.11              | 0.00              | 254  | -0.08             | 0.00              | -0.29             | -0.01             | -0.02             | -0.02             |
| 185   | 260  | 0.00              | 0.18              | 0.51              | 0.01              | 0.04              | 0.00              | 261  | -0.08             | -0.22             | -0.19             | 0.00              | -0.01             | -0.01             |
|       | 254  | -0.03             | 0.18              | 0.32              | -0.01             | -0.01             | 0.00              | 255  | -0.11             | -0.23             | -0.38             | 0.01              | 0.00              | 0.00              |
| 186   | 261  | -0.10             | 0.06              | 1.06              | 0.00              | -0.01             | -0.01             | 165  | -0.04             | 0.38              | 0.08              | 0.00              | -0.01             | -0.02             |
|       | 255  | -0.18             | 0.04              | 0.03              | 0.03              | 0.01              | -0.01             | 256  | -0.11             | 0.37              | -0.95             | -0.01             | 0.00              | -0.02             |
| 187   | 165  | 0.03              | -0.39             | 0.09              | 0.00              | -0.01             | -0.02             | 262  | 0.10              | -0.05             | 1.08              | 0.00              | 0.01              | -0.01             |
|       | 256  | 0.09              | -0.38             | -0.94             | 0.01              | 0.01              | -0.02             | 257  | 0.15              | -0.04             | 0.05              | -0.03             | -0.01             | -0.01             |
| 188   | 262  | 0.08              | 0.22              | -0.17             | 0.00              | 0.01              | -0.01             | 263  | 0.00              | -0.17             | 0.53              | -0.01             | -0.05             | -0.01             |
|       | 257  | 0.08              | 0.22              | -0.37             | -0.01             | 0.00              | 0.00              | 258  | 0.00              | -0.17             | 0.33              | 0.01              | 0.02              | 0.00              |
| 189   | 263  | -0.02             | -0.02             | -0.07             | -0.01             | -0.05             | 0.01              | 12   | 0.02              | 0.14              | 0.39              | 0.05              | 0.24              | 0.02              |
|       | 258  | 0.02              | -0.02             | -0.28             | 0.02              | 0.02              | -0.02             | 259  | 0.05              | 0.14              | 0.19              | -0.06             | -0.14             | -0.01             |
| 190   | 264  | 0.01              | 0.00              | 0.01              | -0.52             | -1.76             | 0.09              | 265  | 0.01              | -0.01             | 0.00              | -0.32             | -1.16             | -0.07             |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 216  | 0.07              | 0.02              | -0.01             | -0.04             | 0.80              | 0.06              | 3    | 0.06              | 0.00              | -0.02             | 0.30              | 0.43              | -0.10             |
| 191   | 11   | 0.00              | -0.04             | 0.03              | 0.57              | 2.85              | -0.13             | 266  | 0.01              | 0.02              | 0.05              | 0.08              | 0.41              | -0.24             |
|       | 253  | 0.01              | -0.04             | -0.04             | -0.03             | -2.54             | 0.00              | 264  | 0.02              | 0.02              | -0.03             | -0.45             | -0.74             | -0.11             |
| 192   | 266  | 0.01              | 0.02              | -0.05             | 0.08              | 0.41              | -0.09             | 13   | 0.01              | -0.03             | 0.02              | 0.23              | 1.14              | 0.07              |
|       | 264  | 0.02              | 0.02              | -0.02             | -0.31             | -0.71             | -0.08             | 265  | 0.01              | -0.02             | 0.05              | -0.37             | -1.44             | 0.07              |
| 193   | 268  | 0.02              | -0.03             | -0.06             | -0.05             | -0.03             | -0.01             | 269  | 0.02              | 0.00              | -0.05             | 0.02              | -0.04             | -0.01             |
|       | 241  | 0.02              | -0.03             | -0.07             | 0.14              | -0.04             | -0.01             | 240  | 0.03              | 0.00              | -0.06             | -0.18             | -0.08             | -0.02             |
| 194   | 269  | 0.00              | -0.01             | -0.06             | -0.04             | -0.05             | -0.01             | 270  | 0.01              | 0.00              | -0.06             | 0.03              | -0.01             | -0.01             |
|       | 240  | 0.01              | -0.01             | -0.07             | 0.18              | 0.00              | -0.03             | 239  | 0.01              | 0.00              | -0.08             | -0.19             | -0.05             | -0.02             |
| 195   | 270  | 0.00              | 0.00              | -0.06             | -0.03             | -0.02             | -0.01             | 271  | 0.00              | 0.00              | -0.06             | 0.03              | 0.01              | -0.01             |
|       | 239  | -0.02             | -0.01             | -0.07             | 0.18              | 0.02              | -0.02             | 7    | -0.02             | 0.00              | -0.07             | -0.18             | -0.03             | -0.02             |
| 196   | 14   | 0.02              | 0.02              | 0.00              | -0.07             | -0.34             | -0.01             | 65   | 0.01              | -0.03             | 0.00              | -0.01             | -0.06             | -0.02             |
|       | 267  | 0.09              | 0.03              | -0.03             | 0.07              | 0.18              | -0.02             | 268  | 0.08              | -0.01             | -0.03             | -0.03             | -0.08             | -0.03             |
| 197   | 65   | 0.00              | 0.00              | -0.04             | -0.01             | -0.06             | -0.01             | 64   | 0.00              | 0.00              | -0.05             | -0.01             | -0.04             | 0.01              |
|       | 268  | 0.03              | 0.00              | -0.03             | -0.07             | -0.09             | -0.02             | 269  | 0.03              | 0.00              | -0.05             | 0.02              | -0.03             | -0.01             |
| 198   | 64   | 0.00              | 0.00              | -0.05             | -0.01             | -0.04             | 0.01              | 63   | 0.00              | 0.00              | -0.06             | 0.00              | -0.01             | 0.01              |
|       | 269  | 0.00              | 0.00              | -0.06             | -0.04             | -0.04             | -0.01             | 270  | 0.00              | 0.00              | -0.06             | 0.03              | -0.01             | -0.01             |
| 199   | 63   | 0.00              | 0.00              | -0.06             | 0.00              | -0.01             | 0.01              | 15   | 0.00              | 0.00              | -0.06             | 0.00              | 0.01              | 0.01              |
|       | 270  | 0.00              | 0.00              | -0.06             | -0.03             | -0.02             | -0.01             | 271  | 0.00              | 0.00              | -0.07             | 0.03              | 0.01              | -0.01             |
| 200   | 272  | -0.02             | 0.00              | -0.05             | -0.03             | 0.03              | 0.00              | 273  | -0.02             | 0.01              | -0.05             | 0.04              | 0.07              | -0.01             |
|       | 248  | -0.05             | 0.00              | -0.07             | 0.18              | 0.06              | -0.02             | 247  | -0.04             | 0.01              | -0.07             | -0.16             | 0.03              | -0.03             |
| 201   | 273  | -0.05             | 0.00              | -0.04             | -0.01             | 0.05              | -0.01             | 274  | -0.04             | 0.04              | -0.05             | 0.05              | 0.04              | 0.00              |
|       | 247  | -0.07             | 0.00              | -0.05             | 0.16              | 0.09              | -0.01             | 246  | -0.06             | 0.04              | -0.07             | -0.12             | 0.07              | -0.01             |
| 202   | 274  | -0.13             | 0.04              | -0.04             | 0.04              | 0.03              | 0.02              | 275  | -0.15             | -0.05             | -0.07             | -0.07             | 0.04              | -0.03             |
|       | 246  | -0.05             | 0.06              | -0.02             | 0.07              | 0.11              | 0.04              | 9    | -0.06             | -0.03             | -0.05             | -0.02             | -0.01             | 0.00              |
| 203   | 15   | 0.00              | 0.00              | -0.06             | 0.00              | 0.01              | 0.00              | 44   | 0.00              | 0.00              | -0.06             | 0.01              | 0.03              | 0.01              |
|       | 271  | -0.01             | 0.00              | -0.06             | -0.03             | 0.00              | -0.01             | 272  | -0.01             | 0.00              | -0.06             | 0.03              | 0.04              | -0.01             |
| 204   | 44   | 0.00              | 0.00              | -0.05             | 0.01              | 0.03              | 0.01              | 43   | 0.00              | 0.00              | -0.04             | 0.01              | 0.05              | 0.01              |
|       | 272  | -0.02             | -0.01             | -0.05             | -0.03             | 0.03              | -0.01             | 273  | -0.02             | 0.00              | -0.05             | 0.04              | 0.06              | -0.01             |
| 205   | 43   | 0.00              | 0.00              | -0.04             | 0.01              | 0.05              | 0.01              | 42   | 0.00              | 0.01              | -0.02             | 0.02              | 0.08              | -0.01             |
|       | 273  | -0.05             | -0.01             | -0.04             | -0.02             | 0.05              | -0.01             | 274  | -0.05             | 0.00              | -0.01             | 0.06              | 0.08              | -0.02             |
| 206   | 42   | -0.01             | 0.04              | 0.04              | 0.02              | 0.08              | -0.03             | 16   | -0.02             | -0.01             | 0.06              | 0.06              | 0.28              | 0.00              |
|       | 274  | -0.15             | 0.01              | 0.00              | 0.04              | 0.08              | -0.03             | 275  | -0.16             | -0.04             | 0.02              | -0.11             | -0.14             | 0.00              |
| 207   | 276  | -0.01             | -0.01             | 0.00              | -0.50             | -0.92             | -0.11             | 275  | -0.02             | -0.04             | 0.01              | 0.73              | -0.04             | 0.04              |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 242  | 0.04              | 0.00              | -0.01             | 0.05              | 0.34              | -0.34             | 9    | 0.03              | -0.03             | -0.01             | 0.06              | 0.18              | -0.19             |
| 208   | 13   | -0.02             | 0.01              | 0.03              | 0.23              | 1.14              | 0.10              | 277  | -0.02             | 0.01              | -0.01             | 0.16              | 0.81              | 0.20              |
|       | 265  | -0.02             | 0.01              | 0.04              | -0.32             | -1.43             | 0.00              | 276  | -0.01             | 0.01              | 0.00              | -0.43             | -0.93             | 0.10              |
| 209   | 277  | -0.03             | 0.02              | 0.06              | 0.16              | 0.81              | 0.22              | 16   | -0.06             | -0.10             | -0.01             | -0.01             | -0.04             | 0.07              |
|       | 276  | -0.03             | 0.02              | 0.02              | -0.51             | -0.94             | 0.23              | 275  | -0.06             | -0.10             | -0.06             | 0.76              | 0.10              | 0.08              |
| 210   | 278  | -0.01             | 0.00              | -0.02             | -0.25             | -1.16             | 0.03              | 279  | -0.01             | 0.01              | -0.01             | -0.18             | -0.55             | -0.02             |
|       | 230  | -0.07             | -0.01             | 0.00              | -0.09             | 0.64              | 0.00              | 6    | -0.07             | 0.00              | 0.01              | 0.25              | 0.22              | -0.05             |
| 211   | 12   | 0.00              | 0.08              | -0.04             | 0.54              | 2.71              | -0.08             | 280  | -0.02             | -0.01             | -0.08             | -0.01             | -0.05             | -0.11             |
|       | 259  | -0.01             | 0.07              | 0.06              | -0.29             | -2.48             | 0.02              | 278  | -0.03             | -0.02             | 0.02              | -0.17             | -0.16             | -0.02             |
| 212   | 280  | -0.02             | -0.02             | 0.05              | -0.01             | -0.05             | -0.05             | 17   | -0.01             | 0.02              | -0.03             | 0.11              | 0.55              | 0.01              |
|       | 278  | -0.02             | -0.02             | 0.02              | -0.05             | -0.14             | -0.03             | 279  | -0.01             | 0.02              | -0.06             | -0.23             | -0.81             | 0.03              |
| 213   | 281  | 0.00              | 0.01              | -0.03             | -0.26             | -0.50             | -0.08             | 267  | 0.01              | 0.04              | -0.03             | 0.38              | -0.06             | 0.01              |
|       | 238  | -0.03             | 0.00              | 0.01              | 0.09              | 0.22              | -0.19             | 8    | -0.03             | 0.03              | 0.01              | -0.04             | 0.11              | -0.10             |
| 214   | 17   | 0.02              | -0.01             | -0.05             | 0.11              | 0.55              | 0.08              | 282  | 0.02              | -0.01             | 0.01              | 0.10              | 0.48              | 0.12              |
|       | 279  | 0.01              | -0.01             | -0.06             | -0.17             | -0.80             | -0.03             | 281  | 0.01              | -0.01             | -0.01             | -0.22             | -0.51             | 0.01              |
| 215   | 282  | 0.03              | -0.02             | -0.09             | 0.10              | 0.48              | 0.09              | 14   | 0.06              | 0.10              | 0.00              | -0.02             | -0.09             | 0.01              |
|       | 281  | 0.03              | -0.02             | -0.03             | -0.26             | -0.52             | 0.12              | 267  | 0.06              | 0.10              | 0.05              | 0.41              | 0.09              | 0.04              |
| 216   | 287  | 0.00              | 0.00              | 0.00              | -0.12             | 0.14              | -0.08             | 288  | 0.00              | 0.00              | 0.00              | 0.44              | 0.31              | -0.06             |
|       | 283  | 0.00              | 0.00              | 0.00              | 1.07              | -0.06             | -0.01             | 284  | 0.00              | 0.00              | 0.00              | -1.03             | -0.61             | 0.00              |
| 217   | 288  | 0.00              | 0.00              | 0.00              | -0.14             | 0.19              | -0.04             | 289  | 0.00              | 0.00              | 0.00              | 0.45              | 0.26              | 0.05              |
|       | 284  | 0.00              | 0.00              | 0.00              | 1.25              | -0.15             | -0.07             | 285  | 0.00              | 0.00              | 0.00              | -1.65             | -0.65             | 0.03              |
| 218   | 289  | 0.00              | 0.00              | 0.00              | -0.47             | 0.07              | -0.13             | 25   | 0.00              | 0.00              | 0.00              | 0.76              | 0.30              | 0.10              |
|       | 285  | 0.00              | 0.00              | 0.00              | 1.97              | 0.07              | 0.02              | 19   | 0.00              | 0.00              | 0.00              | -3.08             | -1.10             | 0.25              |
| 219   | 290  | 0.00              | 0.00              | 0.00              | -0.53             | 0.03              | 0.10              | 291  | 0.00              | 0.00              | 0.00              | 0.13              | 0.04              | 0.02              |
|       | 286  | 0.00              | 0.00              | 0.00              | -0.29             | -0.21             | -0.06             | 287  | 0.00              | 0.00              | 0.00              | 0.27              | 0.22              | -0.14             |
| 220   | 291  | 0.00              | 0.00              | 0.00              | 0.25              | 0.06              | -0.01             | 292  | 0.00              | 0.00              | 0.00              | 0.09              | 0.06              | 0.01              |
|       | 287  | 0.00              | 0.00              | 0.00              | -0.12             | 0.14              | -0.05             | 288  | 0.00              | 0.00              | 0.00              | 0.44              | 0.27              | -0.04             |
| 221   | 292  | 0.00              | 0.00              | 0.00              | 0.34              | 0.11              | 0.00              | 293  | 0.00              | 0.00              | 0.00              | -0.04             | 0.04              | 0.01              |
|       | 288  | 0.00              | 0.00              | 0.00              | -0.14             | 0.15              | -0.02             | 289  | 0.00              | 0.00              | 0.00              | 0.45              | 0.30              | -0.01             |
| 222   | 293  | 0.00              | 0.00              | 0.00              | 0.38              | 0.12              | 0.03              | 29   | 0.00              | 0.00              | 0.00              | -0.22             | -0.10             | 0.02              |
|       | 289  | 0.00              | 0.00              | 0.00              | -0.47             | 0.11              | 0.04              | 25   | 0.00              | 0.00              | 0.00              | 0.79              | 0.45              | 0.03              |
| 223   | 294  | 0.00              | 0.00              | 0.00              | -0.28             | -0.21             | 0.05              | 295  | 0.00              | 0.00              | 0.00              | 0.26              | 0.21              | 0.14              |
|       | 290  | 0.00              | 0.00              | 0.00              | -0.53             | 0.03              | -0.10             | 291  | 0.00              | 0.00              | 0.00              | 0.13              | 0.04              | -0.02             |
| 224   | 295  | 0.00              | 0.00              | 0.00              | -0.11             | 0.13              | 0.05              | 296  | 0.00              | 0.00              | 0.00              | 0.44              | 0.26              | 0.03              |



TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 291  | 0.00  | 0.00  | 0.00  | 0.25  | 0.06  | 0.01  | 292  | 0.00  | 0.00  | 0.00  | 0.09  | 0.06  | 0.00  |
| 225   | 296  | 0.00  | 0.00  | 0.00  | -0.13 | 0.15  | 0.01  | 297  | 0.00  | 0.00  | 0.00  | 0.45  | 0.27  | 0.00  |
|       | 292  | 0.00  | 0.00  | 0.00  | 0.34  | 0.11  | 0.01  | 293  | 0.00  | 0.00  | 0.00  | -0.04 | 0.03  | 0.00  |
| 226   | 297  | 0.00  | 0.00  | 0.00  | -0.45 | 0.09  | -0.04 | 33   | 0.00  | 0.00  | 0.00  | 0.75  | 0.33  | -0.03 |
|       | 293  | 0.00  | 0.00  | 0.00  | 0.38  | 0.12  | -0.01 | 29   | 0.00  | 0.00  | 0.00  | -0.21 | -0.03 | 0.00  |
| 227   | 20   | 0.00  | 0.00  | 0.00  | -0.75 | -0.41 | 0.22  | 298  | 0.00  | 0.00  | 0.00  | -0.77 | -0.40 | -0.06 |
|       | 294  | 0.00  | 0.00  | 0.00  | -0.20 | 0.20  | 0.28  | 295  | 0.00  | 0.00  | 0.00  | 0.26  | 0.21  | 0.00  |
| 228   | 298  | 0.00  | 0.00  | 0.00  | 1.06  | -0.04 | 0.01  | 299  | 0.00  | 0.00  | 0.00  | -1.02 | -0.58 | -0.01 |
|       | 295  | 0.00  | 0.00  | 0.00  | -0.11 | 0.13  | 0.07  | 296  | 0.00  | 0.00  | 0.00  | 0.45  | 0.30  | 0.06  |
| 229   | 299  | 0.00  | 0.00  | 0.00  | 1.23  | -0.13 | 0.06  | 300  | 0.00  | 0.00  | 0.00  | -1.60 | -0.64 | -0.03 |
|       | 296  | 0.00  | 0.00  | 0.00  | -0.12 | 0.19  | 0.04  | 297  | 0.00  | 0.00  | 0.00  | 0.45  | 0.27  | -0.06 |
| 230   | 300  | 0.00  | 0.00  | 0.00  | 1.98  | 0.08  | 0.04  | 21   | 0.00  | 0.00  | 0.00  | -2.97 | -0.82 | -0.18 |
|       | 297  | 0.00  | 0.00  | 0.00  | -0.45 | 0.09  | 0.05  | 33   | 0.00  | 0.00  | 0.00  | 0.73  | 0.22  | -0.17 |
| 231   | 301  | 0.07  | 0.47  | -0.20 | -0.03 | -0.17 | 0.00  | 302  | -0.05 | -0.14 | -0.06 | 0.01  | 0.05  | 0.00  |
|       | 283  | 0.07  | 0.47  | -0.17 | 0.09  | 0.47  | 0.00  | 284  | -0.05 | -0.14 | -0.02 | 0.04  | 0.22  | 0.00  |
| 232   | 302  | -0.14 | 0.38  | 1.00  | 0.01  | 0.05  | 0.02  | 303  | -0.33 | -0.56 | -0.23 | -0.01 | -0.04 | 0.02  |
|       | 284  | -0.14 | 0.38  | 0.14  | 0.04  | 0.22  | -0.02 | 285  | -0.33 | -0.56 | -1.09 | 0.10  | 0.51  | -0.02 |
| 233   | 303  | -0.47 | 0.26  | 3.87  | -0.01 | -0.04 | -0.12 | 163  | -0.26 | 1.27  | 0.43  | -0.01 | -0.03 | -0.12 |
|       | 285  | -0.47 | 0.26  | -0.52 | 0.10  | 0.51  | 0.12  | 19   | -0.26 | 1.27  | -3.96 | -0.10 | -0.49 | 0.12  |
| 234   | 304  | 0.33  | 0.65  | 0.06  | 0.00  | -0.01 | 0.00  | 305  | 0.12  | -0.42 | 1.29  | 0.00  | -0.01 | 0.00  |
|       | 22   | 0.33  | 0.65  | -0.89 | 0.00  | 0.01  | 0.00  | 23   | 0.12  | -0.42 | 0.34  | 0.00  | 0.02  | 0.00  |
| 235   | 305  | -0.06 | 0.36  | 0.89  | 0.00  | -0.01 | -0.01 | 306  | -0.22 | -0.47 | 0.37  | 0.01  | 0.04  | -0.01 |
|       | 23   | -0.06 | 0.36  | 0.17  | 0.00  | 0.02  | 0.01  | 24   | -0.22 | -0.47 | -0.35 | -0.02 | -0.09 | 0.01  |
| 236   | 306  | -0.35 | 0.11  | 2.91  | 0.01  | 0.04  | 0.00  | 164  | -0.14 | 1.13  | 0.79  | -0.03 | -0.16 | 0.00  |
|       | 24   | -0.35 | 0.11  | -0.24 | -0.02 | -0.09 | 0.00  | 11   | -0.14 | 1.13  | -2.36 | 0.03  | 0.13  | 0.00  |
| 237   | 310  | 0.27  | 0.68  | 0.72  | 0.01  | 0.04  | 0.00  | 311  | 0.01  | -0.64 | -0.06 | 0.00  | -0.01 | 0.00  |
|       | 307  | 0.27  | 0.68  | 0.73  | -0.01 | -0.03 | 0.00  | 308  | 0.01  | -0.64 | -0.04 | 0.00  | 0.01  | 0.00  |
| 238   | 311  | -0.03 | 0.68  | 0.76  | 0.00  | -0.01 | 0.00  | 312  | -0.31 | -0.74 | -0.01 | 0.00  | 0.01  | 0.00  |
|       | 308  | -0.03 | 0.68  | 0.68  | 0.00  | 0.01  | 0.00  | 309  | -0.31 | -0.74 | -0.09 | 0.00  | 0.00  | 0.00  |
| 239   | 312  | -0.33 | 0.04  | 2.35  | 0.00  | 0.01  | 0.00  | 166  | -0.04 | 1.48  | 1.57  | 0.00  | -0.01 | 0.00  |
|       | 309  | -0.33 | 0.04  | -0.90 | 0.00  | 0.00  | 0.00  | 165  | -0.04 | 1.48  | -1.67 | 0.00  | -0.01 | 0.00  |
| 240   | 316  | 0.31  | 0.74  | -0.03 | 0.00  | 0.00  | 0.00  | 317  | 0.02  | -0.68 | 0.77  | 0.00  | 0.01  | 0.00  |
|       | 313  | 0.31  | 0.74  | -0.12 | 0.00  | 0.00  | 0.00  | 314  | 0.02  | -0.68 | 0.67  | 0.00  | -0.01 | 0.00  |
| 241   | 317  | -0.01 | 0.62  | -0.08 | 0.00  | 0.01  | 0.00  | 318  | -0.27 | -0.65 | 0.72  | -0.01 | -0.03 | 0.00  |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 314  | -0.01 | 0.62  | -0.07 | 0.00  | -0.01 | 0.00  | 315  | -0.27 | -0.65 | 0.72  | 0.01  | 0.03  | 0.00  |
| 242   | 318  | -0.29 | 0.08  | 1.29  | -0.01 | -0.03 | 0.00  | 167  | -0.07 | 1.17  | 2.09  | 0.02  | 0.12  | 0.00  |
|       | 315  | -0.29 | 0.08  | -1.44 | 0.01  | 0.03  | 0.00  | 12   | -0.07 | 1.17  | -0.65 | -0.03 | -0.14 | 0.00  |
| 243   | 319  | 0.22  | 0.50  | 0.52  | -0.01 | -0.03 | -0.01 | 320  | 0.03  | -0.43 | 1.06  | 0.00  | 0.00  | -0.01 |
|       | 82   | 0.22  | 0.50  | -0.21 | 0.03  | 0.13  | 0.01  | 83   | 0.03  | -0.43 | 0.33  | 0.01  | 0.04  | 0.01  |
| 244   | 320  | -0.07 | 0.48  | 1.39  | 0.00  | 0.00  | 0.00  | 321  | -0.29 | -0.61 | 0.30  | 0.01  | 0.05  | 0.00  |
|       | 83   | -0.07 | 0.48  | 0.49  | 0.01  | 0.04  | 0.00  | 84   | -0.29 | -0.61 | -0.60 | 0.00  | 0.01  | 0.00  |
| 245   | 321  | -0.37 | 0.09  | 3.84  | 0.01  | 0.05  | 0.04  | 168  | -0.13 | 1.26  | 0.70  | -0.03 | -0.17 | 0.04  |
|       | 84   | -0.37 | 0.09  | -0.06 | 0.00  | 0.01  | -0.04 | 85   | -0.13 | 1.26  | -3.20 | 0.12  | 0.60  | -0.04 |
| 246   | 322  | 0.28  | 0.63  | 0.42  | 0.01  | 0.06  | 0.02  | 323  | 0.05  | -0.56 | 1.35  | 0.00  | -0.01 | 0.02  |
|       | 102  | 0.28  | 0.63  | -0.54 | -0.06 | -0.29 | -0.02 | 103  | 0.05  | -0.56 | 0.39  | -0.01 | -0.03 | -0.02 |
| 247   | 323  | -0.04 | 0.56  | 1.33  | 0.00  | -0.01 | 0.01  | 324  | -0.29 | -0.65 | 0.40  | 0.00  | -0.02 | 0.01  |
|       | 103  | -0.04 | 0.56  | 0.38  | -0.01 | -0.03 | -0.01 | 104  | -0.29 | -0.65 | -0.54 | 0.02  | 0.11  | -0.01 |
| 248   | 324  | -0.35 | 0.11  | 3.81  | 0.00  | -0.02 | -0.01 | 169  | -0.13 | 1.20  | 0.75  | 0.01  | 0.07  | -0.01 |
|       | 104  | -0.35 | 0.11  | -0.11 | 0.02  | 0.11  | 0.01  | 105  | -0.13 | 1.20  | -3.17 | -0.01 | -0.04 | 0.01  |
| 249   | 325  | 0.29  | 0.61  | 0.33  | 0.00  | -0.01 | 0.02  | 326  | 0.06  | -0.51 | 1.22  | 0.00  | 0.01  | 0.02  |
|       | 122  | 0.29  | 0.61  | -0.62 | -0.05 | -0.25 | -0.02 | 123  | 0.06  | -0.51 | 0.27  | -0.02 | -0.09 | -0.02 |
| 250   | 326  | -0.07 | 0.51  | 1.26  | 0.00  | 0.01  | 0.01  | 327  | -0.31 | -0.65 | 0.24  | -0.01 | -0.05 | 0.01  |
|       | 123  | -0.07 | 0.51  | 0.28  | -0.02 | -0.09 | -0.01 | 124  | -0.31 | -0.65 | -0.73 | 0.02  | 0.10  | -0.01 |
| 251   | 327  | -0.40 | 0.06  | 3.85  | -0.01 | -0.05 | -0.01 | 170  | -0.14 | 1.37  | 0.58  | 0.04  | 0.19  | -0.01 |
|       | 124  | -0.40 | 0.06  | -0.27 | 0.02  | 0.10  | 0.01  | 125  | -0.14 | 1.37  | -3.54 | -0.05 | -0.23 | 0.01  |
| 252   | 328  | 0.30  | 0.53  | -0.15 | 0.00  | -0.02 | 0.02  | 329  | 0.11  | -0.41 | 1.00  | -0.01 | -0.03 | 0.02  |
|       | 142  | 0.30  | 0.53  | -0.96 | -0.07 | -0.37 | -0.02 | 143  | 0.11  | -0.41 | 0.20  | -0.04 | -0.20 | -0.02 |
| 253   | 329  | 0.05  | 0.26  | 0.00  | -0.01 | -0.03 | -0.01 | 330  | -0.13 | -0.61 | -0.19 | 0.03  | 0.14  | -0.01 |
|       | 143  | 0.05  | 0.26  | 0.07  | -0.04 | -0.20 | 0.01  | 144  | -0.13 | -0.61 | -0.12 | -0.09 | -0.44 | 0.01  |
| 254   | 330  | -0.34 | 1.60  | 1.82  | 0.03  | 0.14  | 0.02  | 171  | -0.98 | -1.58 | 0.52  | -0.11 | -0.56 | 0.02  |
|       | 144  | -0.34 | 1.60  | -0.69 | -0.09 | -0.44 | -0.02 | 145  | -0.98 | -1.58 | -1.99 | 0.09  | 0.46  | -0.02 |
| 255   | 331  | 0.08  | 0.48  | -0.24 | 0.04  | 0.21  | 0.00  | 332  | -0.04 | -0.15 | -0.08 | -0.01 | -0.05 | 0.00  |
|       | 298  | 0.08  | 0.48  | -0.20 | -0.10 | -0.49 | 0.00  | 299  | -0.04 | -0.15 | -0.05 | -0.04 | -0.20 | 0.00  |
| 256   | 332  | -0.14 | 0.39  | 0.94  | -0.01 | -0.05 | -0.02 | 333  | -0.33 | -0.57 | -0.26 | 0.00  | 0.00  | -0.02 |
|       | 299  | -0.14 | 0.39  | 0.10  | -0.04 | -0.20 | 0.02  | 300  | -0.33 | -0.57 | -1.10 | -0.08 | -0.40 | 0.02  |
| 257   | 333  | -0.47 | 0.27  | 3.81  | 0.00  | 0.00  | 0.03  | 173  | -0.27 | 1.26  | 0.43  | 0.02  | 0.10  | 0.03  |
|       | 300  | -0.47 | 0.27  | -0.59 | -0.08 | -0.40 | -0.04 | 21   | -0.27 | 1.26  | -3.97 | -0.04 | -0.21 | -0.04 |
| 258   | 334  | 0.33  | 0.67  | 0.15  | -0.01 | -0.03 | -0.02 | 335  | 0.10  | -0.47 | 1.22  | 0.00  | 0.00  | -0.02 |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 37   | 0.33  | 0.67  | -0.87 | 0.02  | 0.12  | 0.02  | 38   | 0.10  | -0.47 | 0.20  | -0.01 | -0.06 | 0.02  |
| 259   | 335  | -0.10 | 0.44  | 1.20  | 0.00  | 0.00  | -0.04 | 336  | -0.30 | -0.55 | 0.24  | 0.00  | 0.02  | -0.04 |
|       | 38   | -0.10 | 0.44  | 0.17  | -0.01 | -0.06 | 0.03  | 39   | -0.30 | -0.55 | -0.79 | -0.07 | -0.36 | 0.03  |
| 260   | 336  | -0.41 | -0.02 | 3.84  | 0.00  | 0.02  | 0.07  | 174  | -0.12 | 1.44  | 0.36  | 0.01  | 0.03  | 0.07  |
|       | 39   | -0.41 | -0.02 | -0.16 | -0.07 | -0.36 | -0.07 | 41   | -0.12 | 1.44  | -3.64 | 0.04  | 0.19  | -0.07 |
| 261   | 337  | 0.26  | 0.67  | 0.40  | 0.00  | 0.00  | 0.00  | 338  | 0.01  | -0.59 | 1.24  | 0.00  | 0.00  | 0.00  |
|       | 59   | 0.26  | 0.67  | -0.47 | 0.00  | 0.02  | 0.00  | 60   | 0.01  | -0.59 | 0.36  | 0.00  | 0.01  | 0.00  |
| 262   | 338  | -0.02 | 0.51  | 1.27  | 0.00  | 0.00  | -0.01 | 339  | -0.23 | -0.51 | 0.40  | 0.00  | 0.01  | -0.01 |
|       | 60   | -0.02 | 0.51  | 0.38  | 0.00  | 0.01  | 0.01  | 61   | -0.23 | -0.51 | -0.49 | -0.03 | -0.14 | 0.01  |
| 263   | 339  | -0.24 | -0.01 | 3.32  | 0.00  | 0.01  | 0.01  | 175  | -0.03 | 1.04  | 0.56  | 0.00  | -0.02 | 0.01  |
|       | 61   | -0.24 | -0.01 | 0.15  | -0.03 | -0.14 | -0.01 | 62   | -0.03 | 1.04  | -2.61 | 0.00  | -0.02 | -0.01 |
| 264   | 340  | 0.22  | 0.52  | 0.42  | 0.00  | 0.00  | -0.01 | 341  | 0.02  | -0.51 | 1.29  | 0.00  | 0.00  | -0.01 |
|       | 78   | 0.22  | 0.52  | -0.48 | 0.02  | 0.10  | 0.01  | 79   | 0.02  | -0.51 | 0.38  | -0.01 | -0.04 | 0.01  |
| 265   | 341  | -0.01 | 0.55  | 1.28  | 0.00  | 0.00  | 0.00  | 342  | -0.24 | -0.60 | 0.44  | 0.00  | 0.00  | 0.00  |
|       | 79   | -0.01 | 0.55  | 0.37  | -0.01 | -0.04 | 0.00  | 80   | -0.24 | -0.60 | -0.46 | -0.01 | -0.06 | 0.00  |
| 266   | 342  | -0.26 | 0.10  | 3.44  | 0.00  | 0.00  | -0.02 | 176  | -0.08 | 1.01  | 0.75  | 0.00  | 0.00  | -0.02 |
|       | 80   | -0.26 | 0.10  | 0.01  | -0.01 | -0.06 | 0.02  | 81   | -0.08 | 1.01  | -2.69 | -0.06 | -0.32 | 0.02  |
| 267   | 343  | 0.26  | 0.50  | 0.39  | -0.01 | -0.03 | -0.03 | 344  | 0.07  | -0.48 | 1.35  | 0.00  | 0.02  | -0.03 |
|       | 98   | 0.26  | 0.50  | -0.64 | 0.07  | 0.34  | 0.03  | 99   | 0.07  | -0.48 | 0.32  | 0.00  | 0.01  | 0.03  |
| 268   | 344  | -0.05 | 0.52  | 1.27  | 0.00  | 0.02  | -0.01 | 345  | -0.28 | -0.63 | 0.37  | -0.01 | -0.06 | -0.01 |
|       | 99   | -0.05 | 0.52  | 0.31  | 0.00  | 0.01  | 0.00  | 100  | -0.28 | -0.63 | -0.59 | 0.01  | 0.05  | 0.00  |
| 269   | 345  | -0.36 | 0.10  | 3.75  | -0.01 | -0.06 | -0.05 | 177  | -0.13 | 1.26  | 0.71  | 0.04  | 0.18  | -0.05 |
|       | 100  | -0.36 | 0.10  | -0.14 | 0.01  | 0.05  | 0.04  | 101  | -0.13 | 1.26  | -3.19 | -0.12 | -0.59 | 0.04  |
| 270   | 346  | 0.28  | 0.63  | 0.38  | -0.01 | -0.06 | -0.02 | 347  | 0.05  | -0.56 | 1.32  | 0.00  | 0.02  | -0.02 |
|       | 118  | 0.28  | 0.63  | -0.57 | 0.05  | 0.27  | 0.02  | 119  | 0.05  | -0.56 | 0.37  | 0.00  | 0.01  | 0.02  |
| 271   | 347  | -0.04 | 0.56  | 1.30  | 0.00  | 0.02  | -0.02 | 348  | -0.29 | -0.65 | 0.37  | 0.00  | 0.00  | -0.02 |
|       | 119  | -0.04 | 0.56  | 0.36  | 0.00  | 0.01  | 0.01  | 120  | -0.29 | -0.65 | -0.57 | -0.02 | -0.12 | 0.01  |
| 272   | 348  | -0.35 | 0.11  | 3.79  | 0.00  | 0.00  | 0.01  | 178  | -0.13 | 1.20  | 0.72  | 0.00  | 0.01  | 0.01  |
|       | 120  | -0.35 | 0.11  | -0.14 | -0.02 | -0.12 | -0.01 | 121  | -0.13 | 1.20  | -3.20 | 0.00  | 0.00  | -0.01 |
| 273   | 349  | 0.29  | 0.61  | 0.31  | 0.00  | -0.01 | -0.02 | 350  | 0.06  | -0.52 | 1.20  | 0.00  | 0.00  | -0.02 |
|       | 138  | 0.29  | 0.61  | -0.64 | 0.05  | 0.24  | 0.02  | 139  | 0.06  | -0.52 | 0.25  | 0.01  | 0.07  | 0.02  |
| 274   | 350  | -0.07 | 0.51  | 1.24  | 0.00  | 0.00  | -0.02 | 351  | -0.31 | -0.65 | 0.22  | 0.01  | 0.03  | -0.02 |
|       | 139  | -0.07 | 0.51  | 0.26  | 0.01  | 0.07  | 0.02  | 140  | -0.31 | -0.65 | -0.75 | -0.02 | -0.10 | 0.02  |
| 275   | 351  | -0.40 | 0.06  | 3.83  | 0.01  | 0.03  | 0.02  | 179  | -0.14 | 1.37  | 0.56  | -0.02 | -0.08 | 0.02  |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
|       | 140  | -0.40 | 0.06  | -0.29 | -0.02 | -0.10 | -0.02 | 141  | -0.14 | 1.37  | -3.57 | 0.04  | 0.19  | -0.02 |
| 276   | 352  | 0.30  | 0.53  | -0.18 | 0.00  | 0.00  | -0.02 | 353  | 0.11  | -0.41 | 0.97  | 0.01  | 0.05  | -0.02 |
|       | 158  | 0.30  | 0.53  | -0.99 | 0.07  | 0.37  | 0.01  | 159  | 0.11  | -0.41 | 0.17  | 0.03  | 0.17  | 0.01  |
| 277   | 353  | 0.05  | 0.26  | -0.03 | 0.01  | 0.05  | 0.00  | 354  | -0.13 | -0.61 | -0.22 | -0.04 | -0.19 | 0.00  |
|       | 159  | 0.05  | 0.26  | 0.04  | 0.03  | 0.17  | 0.00  | 160  | -0.13 | -0.61 | -0.15 | 0.09  | 0.45  | 0.00  |
| 278   | 354  | -0.34 | 1.60  | 1.78  | -0.04 | -0.19 | -0.01 | 180  | -0.98 | -1.58 | 0.51  | 0.15  | 0.74  | -0.01 |
|       | 160  | -0.34 | 1.60  | -0.74 | 0.09  | 0.45  | 0.01  | 161  | -0.98 | -1.58 | -2.01 | -0.11 | -0.57 | 0.01  |
| 279   | 355  | 0.00  | -0.01 | -0.07 | -0.62 | -3.12 | 0.16  | 356  | 0.01  | 0.04  | -0.10 | 0.30  | 1.49  | 0.16  |
|       | 286  | 0.00  | -0.01 | -0.12 | 0.19  | 0.97  | -0.16 | 290  | 0.01  | 0.04  | -0.14 | -0.19 | -0.97 | -0.16 |
| 280   | 356  | 0.01  | 0.05  | 0.08  | 0.30  | 1.49  | -0.16 | 357  | 0.00  | -0.02 | 0.05  | -0.63 | -3.13 | -0.16 |
|       | 290  | 0.01  | 0.05  | 0.10  | -0.19 | -0.97 | 0.16  | 294  | 0.00  | -0.02 | 0.07  | 0.19  | 0.96  | 0.16  |
| 281   | 357  | 0.02  | 0.14  | 0.33  | -0.63 | -3.13 | 0.62  | 172  | -0.04 | -0.15 | 0.18  | 2.33  | 11.67 | 0.62  |
|       | 294  | 0.02  | 0.14  | 0.30  | 0.19  | 0.96  | -0.62 | 20   | -0.04 | -0.15 | 0.15  | -0.70 | -3.51 | -0.62 |
| 282   | 358  | 0.00  | -0.01 | 0.10  | -0.61 | -3.05 | 0.15  | 359  | -0.01 | -0.03 | 0.12  | 0.29  | 1.46  | 0.15  |
|       | 149  | 0.00  | -0.01 | 0.11  | 0.20  | 1.01  | -0.15 | 153  | -0.01 | -0.03 | 0.13  | -0.19 | -0.93 | -0.15 |
| 283   | 359  | -0.01 | -0.04 | -0.06 | 0.29  | 1.46  | -0.16 | 360  | 0.00  | 0.00  | -0.04 | -0.61 | -3.06 | -0.16 |
|       | 153  | -0.01 | -0.04 | -0.08 | -0.19 | -0.93 | 0.15  | 157  | 0.00  | 0.00  | -0.06 | 0.20  | 0.99  | 0.15  |
| 284   | 360  | -0.01 | -0.11 | -0.30 | -0.61 | -3.06 | 0.59  | 180  | 0.03  | 0.10  | -0.17 | 2.28  | 11.40 | 0.59  |
|       | 157  | -0.01 | -0.11 | -0.27 | 0.20  | 0.99  | -0.59 | 161  | 0.03  | 0.10  | -0.14 | -0.71 | -3.55 | -0.59 |
| 285   | 361  | -0.01 | 0.00  | 0.05  | -0.68 | -3.38 | 0.14  | 181  | 0.00  | 0.04  | 0.11  | 0.14  | 0.71  | 0.14  |
|       | 266  | -0.01 | 0.00  | 0.06  | 0.66  | 3.28  | -0.14 | 13   | 0.00  | 0.04  | 0.12  | 0.15  | 0.76  | -0.14 |
| 286   | 362  | 0.00  | -0.05 | 0.20  | 0.00  | -0.02 | -0.05 | 182  | 0.05  | 0.17  | 0.09  | -0.11 | -0.54 | -0.05 |
|       | 277  | 0.00  | -0.05 | 0.11  | 0.15  | 0.74  | 0.05  | 16   | 0.05  | 0.17  | 0.00  | 0.19  | 0.93  | 0.05  |
| 287   | 363  | 0.01  | 0.01  | -0.08 | -0.65 | -3.27 | 0.15  | 183  | 0.00  | -0.04 | -0.16 | 0.14  | 0.70  | 0.15  |
|       | 280  | 0.01  | 0.01  | -0.06 | 0.54  | 2.71  | -0.15 | 17   | 0.00  | -0.04 | -0.14 | 0.08  | 0.39  | -0.15 |
| 288   | 364  | -0.01 | 0.05  | -0.22 | 0.00  | -0.02 | -0.01 | 184  | -0.04 | -0.13 | -0.10 | -0.10 | -0.48 | -0.01 |
|       | 282  | -0.01 | 0.05  | -0.15 | 0.08  | 0.40  | 0.01  | 14   | -0.04 | -0.13 | -0.03 | 0.16  | 0.80  | 0.01  |
| 289   | 365  | 0.01  | 0.04  | 0.22  | 0.01  | 0.06  | -0.01 | 366  | 0.00  | -0.02 | 0.23  | 0.00  | -0.01 | -0.01 |
|       | 42   | 0.01  | 0.04  | 0.23  | 0.02  | 0.09  | 0.00  | 43   | 0.00  | -0.02 | 0.24  | 0.02  | 0.11  | 0.00  |
| 290   | 366  | 0.00  | 0.00  | 0.23  | 0.00  | -0.01 | 0.00  | 367  | 0.00  | 0.00  | 0.23  | 0.00  | 0.00  | 0.00  |
|       | 43   | 0.00  | 0.00  | 0.24  | 0.02  | 0.11  | 0.00  | 44   | 0.00  | 0.00  | 0.24  | 0.01  | 0.05  | 0.00  |
| 291   | 367  | 0.00  | 0.00  | 0.24  | 0.00  | 0.00  | 0.00  | 185  | 0.00  | 0.00  | 0.23  | 0.00  | 0.00  | 0.00  |
|       | 44   | 0.00  | 0.00  | 0.24  | 0.01  | 0.05  | 0.00  | 15   | 0.00  | 0.00  | 0.23  | 0.00  | 0.01  | 0.00  |
| 292   | 368  | 0.00  | 0.00  | 0.23  | 0.00  | 0.00  | 0.00  | 369  | 0.00  | 0.00  | 0.22  | 0.00  | 0.02  | 0.00  |

TENS. Vento dir. 0: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
|       | 63   | 0.00              | 0.00              | 0.23              | -0.01             | -0.03             | 0.00              | 64   | 0.00              | 0.00              | 0.23              | -0.02             | -0.10             | 0.00              |
| 293   | 369  | 0.00              | 0.01              | 0.23              | 0.00              | 0.02              | 0.00              | 370  | -0.01             | -0.03             | 0.21              | -0.01             | -0.06             | 0.00              |
|       | 64   | 0.00              | 0.01              | 0.23              | -0.02             | -0.10             | 0.00              | 65   | -0.01             | -0.03             | 0.21              | -0.01             | -0.06             | 0.00              |
| 294   | 370  | -0.01             | 0.05              | 0.29              | -0.01             | -0.06             | 0.01              | 184  | -0.03             | -0.03             | 0.26              | 0.05              | 0.27              | 0.01              |
|       | 65   | -0.01             | 0.05              | 0.18              | -0.01             | -0.06             | -0.01             | 14   | -0.03             | -0.03             | 0.14              | -0.06             | -0.30             | -0.01             |

CARATT. Vento dir. 90: ASTE

| Tra | Filo | Alt.  | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|-------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)   | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 24  | 2.00 | 0.00  | 0.01    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 2.00 | 0.00    | -0.01   | 0.00    | -0.02   | 0.00    | 0.00    |
| 19  | 2.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 24   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 24  | 2.00 | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 21   | 2.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 1   | 5.00 | 0.00  | 0.52    | -0.03   | -0.63   | 0.01    | 0.00    | 0.00    | 1    | 2.00 | 0.00    | -0.52   | 0.03    | -0.72   | 0.00    | 0.00    |
| 2   | 5.00 | 0.00  | 0.27    | -0.16   | -0.19   | 0.00    | 0.00    | 0.00    | 2    | 2.00 | 0.00    | -0.27   | 0.16    | -0.50   | 0.01    | 0.00    |
| 3   | 5.00 | 0.00  | 0.30    | -0.14   | -0.19   | 0.00    | 0.00    | 0.00    | 3    | 2.00 | 0.00    | -0.30   | 0.14    | -0.58   | 0.00    | 0.00    |
| 4   | 5.00 | 0.00  | 0.28    | -0.17   | -0.19   | 0.00    | 0.00    | 0.00    | 4    | 2.00 | 0.00    | -0.28   | 0.17    | -0.53   | 0.00    | 0.00    |
| 5   | 5.00 | 0.01  | 0.30    | -0.15   | -0.19   | 0.01    | 0.00    | 0.00    | 5    | 2.00 | -0.01   | -0.30   | 0.15    | -0.58   | 0.01    | 0.00    |
| 6   | 5.00 | 0.01  | 0.28    | -0.21   | -0.20   | 0.01    | 0.00    | 0.00    | 6    | 2.00 | -0.01   | -0.28   | 0.21    | -0.52   | 0.01    | 0.00    |
| 7   | 5.00 | 0.00  | 0.27    | -0.20   | -0.20   | 0.00    | 0.00    | 0.00    | 7    | 2.00 | 0.00    | -0.27   | 0.20    | -0.52   | 0.00    | 0.00    |
| 8   | 5.00 | -0.01 | 0.27    | -0.16   | -0.19   | -0.02   | 0.00    | 0.00    | 8    | 2.00 | 0.01    | -0.27   | 0.16    | -0.51   | -0.01   | 0.00    |
| 9   | 5.00 | -0.01 | 0.53    | 0.00    | -0.64   | -0.01   | 0.00    | 0.00    | 9    | 2.00 | 0.01    | -0.53   | 0.00    | -0.73   | 0.00    | 0.00    |
| 10  | 5.00 | -0.01 | 0.52    | 0.03    | -0.63   | -0.01   | 0.00    | 0.00    | 10   | 2.00 | 0.01    | -0.52   | -0.03   | -0.72   | 0.00    | 0.00    |
| 11  | 5.00 | -0.01 | 0.27    | 0.15    | -0.19   | -0.02   | 0.00    | 0.00    | 11   | 2.00 | 0.01    | -0.27   | -0.15   | -0.50   | -0.01   | 0.00    |
| 12  | 5.00 | 0.00  | 0.27    | 0.15    | -0.19   | -0.01   | 0.00    | 0.00    | 12   | 2.00 | 0.00    | -0.27   | -0.15   | -0.51   | -0.01   | 0.00    |
| 13  | 5.00 | 0.00  | 0.28    | 0.17    | -0.19   | 0.00    | 0.00    | 0.00    | 13   | 2.00 | 0.00    | -0.28   | -0.17   | -0.53   | 0.00    | 0.00    |
| 14  | 5.00 | 0.00  | 0.27    | 0.17    | -0.19   | 0.00    | 0.00    | 0.00    | 14   | 2.00 | 0.00    | -0.27   | -0.17   | -0.52   | 0.00    | 0.00    |
| 15  | 5.00 | 0.00  | 0.28    | 0.20    | -0.20   | 0.00    | 0.00    | 0.00    | 15   | 2.00 | 0.00    | -0.28   | -0.20   | -0.52   | 0.01    | 0.00    |
| 16  | 5.00 | 0.00  | 0.27    | 0.20    | -0.20   | 0.01    | 0.00    | 0.00    | 16   | 2.00 | 0.00    | -0.27   | -0.20   | -0.52   | 0.01    | 0.00    |
| 17  | 5.00 | 0.01  | 0.27    | 0.16    | -0.19   | 0.02    | 0.00    | 0.00    | 17   | 2.00 | -0.01   | -0.27   | -0.16   | -0.51   | 0.01    | 0.00    |
| 18  | 5.00 | 0.01  | 0.53    | 0.00    | -0.64   | 0.01    | 0.00    | 0.00    | 18   | 2.00 | -0.01   | -0.53   | 0.00    | -0.73   | 0.00    | 0.00    |
| 1   | 5.00 | 0.00  | -0.27   | 0.69    | 0.85    | 0.00    | 0.00    | 0.00    | 25   | 6.00 | 0.00    | 0.27    | -0.69   | 0.00    | 0.00    | 0.00    |
| 9   | 5.00 | 0.00  | -0.27   | 0.79    | 0.85    | 0.01    | 0.00    | 0.00    | 33   | 6.00 | 0.00    | 0.27    | -0.79   | 0.00    | 0.00    | 0.00    |
| 10  | 5.00 | 0.00  | 0.27    | -0.68   | -0.85   | -0.01   | 0.00    | 0.00    | 25   | 6.00 | 0.00    | -0.27   | 0.68    | 0.00    | 0.00    | 0.00    |



CARATT. Vento dir. 90: ASTE

| Tra | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      | Filo | Alt. | Tx      | Ty      | N       | Mx      | My      | Mt      |
|-----|------|------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|
| tto | In.  | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 | N.ro | (m)  | (kN*10) | (kN*10) | (kN*10) | kN*m*10 | kN*m*10 | kN*m*10 |
| 28  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 29   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 29  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 30   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 30  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 31   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 31  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 32   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 32  | 6.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 33   | 6.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 1     | 216  | 0.31              | -0.41             | 0.37              | -2.89             | -1.71             | 0.40              | 217  | 0.37              | -0.08             | -0.08             | 1.27              | 0.77              | 1.79              |
|       | 1    | 0.12              | -0.44             | -0.28             | -8.97             | -1.20             | 0.12              | 213  | 0.19              | -0.12             | -0.74             | 3.88              | 0.36              | 1.51              |
| 2     | 220  | 0.00              | -1.07             | 0.06              | -1.17             | 3.44              | 0.46              | 227  | 0.23              | 0.08              | -0.06             | 0.20              | 1.18              | 2.01              |
|       | 2    | 0.15              | -1.04             | -0.46             | -10.27            | -3.00             | 1.14              | 224  | 0.38              | 0.11              | -0.58             | 4.04              | 0.84              | 2.69              |
| 3     | 234  | -0.53             | -0.06             | 0.12              | -0.26             | -1.29             | -0.19             | 235  | -0.52             | 0.00              | -0.18             | -0.42             | -1.20             | -0.07             |
|       | 4    | -0.22             | 0.01              | 0.08              | 0.04              | 1.46              | 0.25              | 231  | -0.21             | 0.07              | -0.22             | -0.18             | -0.40             | 0.37              |
| 4     | 242  | -0.10             | 0.19              | -0.02             | -0.25             | -1.51             | 0.37              | 243  | -0.13             | 0.06              | 0.14              | -0.12             | -0.54             | 0.72              |
|       | 3    | -0.02             | 0.21              | -0.21             | -0.30             | 2.07              | 0.89              | 221  | -0.04             | 0.08              | -0.06             | 0.06              | -0.84             | 1.24              |
| 5     | 253  | -0.15             | 0.56              | -0.87             | -2.60             | -2.13             | 0.73              | 254  | -0.26             | -0.03             | -0.45             | 2.06              | 2.02              | 2.85              |
|       | 1    | 0.18              | 0.62              | 0.43              | -8.58             | -0.88             | 0.38              | 249  | 0.06              | 0.03              | 0.85              | 5.20              | 0.19              | 2.50              |
| 6     | 253  | -0.21             | 0.39              | 0.92              | 3.74              | 1.06              | -0.98             | 264  | -0.20             | 0.43              | -0.02             | -1.03             | -0.23             | 0.23              |
|       | 1    | -0.17             | 0.40              | 0.02              | 2.03              | -1.38             | -0.34             | 216  | -0.16             | 0.44              | -0.93             | -2.57             | -4.20             | 0.86              |
| 7     | 267  | -0.08             | -0.17             | 0.55              | 0.25              | 1.20              | 0.24              | 268  | -0.04             | 0.03              | 0.75              | -0.28             | -0.79             | 0.04              |
|       | 8    | -0.18             | -0.19             | 0.14              | -0.51             | -0.70             | 0.20              | 241  | -0.14             | 0.01              | 0.33              | 0.93              | 1.62              | -0.01             |
| 8     | 271  | -0.39             | 0.12              | -0.08             | -0.06             | -0.28             | -0.05             | 272  | -0.39             | 0.10              | -0.10             | 0.04              | -0.30             | 0.05              |
|       | 7    | -0.87             | 0.02              | -0.04             | 0.72              | 2.31              | -0.03             | 248  | -0.87             | 0.01              | -0.06             | 0.10              | 2.15              | 0.07              |
| 9     | 265  | 0.15              | -0.07             | 0.19              | -0.55             | -0.60             | -0.03             | 276  | 0.16              | -0.03             | 0.82              | 0.46              | -0.48             | -0.10             |
|       | 3    | 0.27              | -0.05             | -0.60             | 1.23              | -0.29             | -0.40             | 242  | 0.28              | -0.01             | 0.02              | -0.92             | 0.14              | -0.48             |
| 10    | 259  | -0.23             | 0.27              | 0.93              | -3.63             | -0.67             | 0.91              | 278  | -0.20             | 0.44              | -0.02             | 1.01              | 0.18              | -0.24             |
|       | 5    | -0.12             | 0.29              | 0.01              | -1.78             | 1.13              | 0.37              | 230  | -0.09             | 0.46              | -0.94             | 2.13              | 3.88              | -0.77             |
| 11    | 279  | 0.17              | -0.09             | 0.17              | 0.48              | 0.57              | 0.05              | 281  | 0.18              | -0.05             | 0.82              | -0.42             | 0.44              | 0.10              |
|       | 6    | 0.27              | -0.07             | -0.65             | -1.03             | 0.21              | 0.40              | 238  | 0.28              | -0.03             | 0.00              | 0.75              | -0.20             | 0.45              |
| 12    | 286  | 0.00              | 0.00              | 0.00              | -7.39             | -16.00            | 1.46              | 287  | 0.00              | 0.00              | 0.00              | 1.20              | 2.22              | 1.12              |
|       | 18   | 0.00              | 0.00              | 0.00              | -3.78             | 11.66             | -1.40             | 283  | 0.00              | 0.00              | 0.00              | 4.34              | 0.21              | -1.74             |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11   | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq |
| 13    | 25   | 0.00  | 0.00  | 0.00  | -0.65 | 0.41  | 0.33  | 26   | 0.00  | 0.00  | 0.00  | 0.78  | 1.44  | 0.36  |
|       | 19   | 0.00  | 0.00  | 0.00  | -0.50 | -1.38 | -0.58 | 22   | 0.00  | 0.00  | 0.00  | 0.94  | -0.36 | -0.55 |
| 14    | 26   | 0.00  | 0.00  | 0.00  | 0.62  | 0.93  | 0.10  | 27   | 0.00  | 0.00  | 0.00  | 0.72  | 0.98  | 0.09  |
|       | 22   | 0.00  | 0.00  | 0.00  | 0.66  | 0.87  | 0.04  | 23   | 0.00  | 0.00  | 0.00  | 0.76  | 0.93  | 0.03  |
| 15    | 27   | 0.00  | 0.00  | 0.00  | 0.94  | 0.72  | -0.06 | 28   | 0.00  | 0.00  | 0.00  | 0.23  | 0.34  | -0.08 |
|       | 23   | 0.00  | 0.00  | 0.00  | 0.88  | 1.03  | 0.30  | 24   | 0.00  | 0.00  | 0.00  | 0.17  | 0.65  | 0.28  |
| 16    | 28   | 0.00  | 0.00  | 0.00  | 0.32  | -0.04 | -0.16 | 13   | 0.00  | 0.00  | 0.00  | -1.46 | -0.65 | -0.21 |
|       | 24   | 0.00  | 0.00  | 0.00  | 0.29  | 0.54  | 0.24  | 11   | 0.00  | 0.00  | 0.00  | -1.49 | -0.07 | 0.19  |
| 17    | 29   | 0.00  | 0.00  | 0.00  | 0.09  | 0.79  | -0.03 | 30   | 0.00  | 0.00  | 0.00  | -0.01 | 0.83  | -0.13 |
|       | 25   | 0.00  | 0.00  | 0.00  | 0.42  | 1.65  | -0.17 | 26   | 0.00  | 0.00  | 0.00  | 0.32  | 1.69  | -0.27 |
| 18    | 30   | 0.00  | 0.00  | 0.00  | 0.02  | 0.83  | -0.30 | 31   | 0.00  | 0.00  | 0.00  | -0.17 | 0.77  | -0.51 |
|       | 26   | 0.00  | 0.00  | 0.00  | 0.69  | 1.81  | -0.34 | 27   | 0.00  | 0.00  | 0.00  | 0.51  | 1.76  | -0.56 |
| 19    | 31   | 0.00  | 0.00  | 0.00  | -0.08 | 0.92  | -0.82 | 32   | 0.00  | 0.00  | 0.00  | -0.17 | 0.86  | -1.05 |
|       | 27   | 0.00  | 0.00  | 0.00  | 0.63  | 1.58  | -0.81 | 28   | 0.00  | 0.00  | 0.00  | 0.54  | 1.53  | -1.04 |
| 20    | 32   | 0.00  | 0.00  | 0.00  | 1.16  | 1.18  | -1.28 | 16   | 0.00  | 0.00  | 0.00  | 1.20  | 0.98  | -0.97 |
|       | 28   | 0.00  | 0.00  | 0.00  | 0.18  | 1.14  | -1.08 | 13   | 0.00  | 0.00  | 0.00  | 0.22  | 0.94  | -0.78 |
| 21    | 33   | 0.00  | 0.00  | 0.00  | -0.33 | -1.13 | 0.29  | 34   | 0.00  | 0.00  | 0.00  | -0.29 | -1.00 | 0.29  |
|       | 29   | 0.00  | 0.00  | 0.00  | -0.42 | -0.43 | 0.11  | 30   | 0.00  | 0.00  | 0.00  | -0.38 | -0.30 | 0.11  |
| 22    | 34   | 0.00  | 0.00  | 0.00  | -0.82 | -0.95 | 0.36  | 35   | 0.00  | 0.00  | 0.00  | -0.39 | -0.64 | 0.36  |
|       | 30   | 0.00  | 0.00  | 0.00  | -0.88 | -0.17 | 0.05  | 31   | 0.00  | 0.00  | 0.00  | -0.45 | 0.15  | 0.05  |
| 23    | 35   | 0.00  | 0.00  | 0.00  | -0.89 | -0.62 | 0.51  | 36   | 0.00  | 0.00  | 0.00  | -0.03 | -0.08 | 0.53  |
|       | 31   | 0.00  | 0.00  | 0.00  | -1.03 | 0.58  | 0.03  | 32   | 0.00  | 0.00  | 0.00  | -0.17 | 1.12  | 0.05  |
| 24    | 36   | 0.00  | 0.00  | 0.00  | -0.34 | -0.45 | 0.73  | 40   | 0.00  | 0.00  | 0.00  | 1.95  | 0.53  | 0.50  |
|       | 32   | 0.00  | 0.00  | 0.00  | 0.32  | 2.52  | 0.06  | 16   | 0.00  | 0.00  | 0.00  | 2.61  | 3.49  | -0.18 |
| 25    | 21   | 0.00  | 0.00  | 0.00  | -1.38 | 5.24  | -2.04 | 37   | 0.00  | 0.00  | 0.00  | 1.55  | -1.81 | -2.09 |
|       | 33   | 0.00  | 0.00  | 0.00  | 0.05  | -4.19 | 2.01  | 34   | 0.00  | 0.00  | 0.00  | -1.44 | -1.41 | 1.96  |
| 26    | 37   | 0.00  | 0.00  | 0.00  | 0.07  | -2.11 | -0.29 | 38   | 0.00  | 0.00  | 0.00  | -0.90 | -3.04 | -0.05 |
|       | 34   | 0.00  | 0.00  | 0.00  | -0.20 | -1.16 | 0.56  | 35   | 0.00  | 0.00  | 0.00  | -1.37 | -1.62 | 0.80  |
| 27    | 38   | 0.00  | 0.00  | 0.00  | -1.00 | -3.06 | 0.21  | 39   | 0.00  | 0.00  | 0.00  | 0.04  | -2.92 | 0.41  |
|       | 35   | 0.00  | 0.00  | 0.00  | -0.30 | -1.41 | 0.44  | 36   | 0.00  | 0.00  | 0.00  | -1.15 | -1.77 | 0.64  |
| 28    | 39   | 0.00  | 0.00  | 0.00  | 1.27  | -2.67 | 2.43  | 41   | 0.00  | 0.00  | 0.00  | -1.57 | 3.33  | 2.20  |
|       | 36   | 0.00  | 0.00  | 0.00  | -0.10 | -1.56 | -0.97 | 40   | 0.00  | 0.00  | 0.00  | -0.37 | -4.35 | -1.19 |
| 29    | 45   | 0.00  | 0.00  | 0.00  | -1.16 | 1.01  | 0.26  | 46   | 0.00  | 0.00  | 0.00  | 1.04  | 1.33  | -0.46 |
|       | 16   | 0.00  | 0.00  | 0.00  | 5.19  | 9.17  | 0.14  | 42   | 0.00  | 0.00  | 0.00  | -0.94 | 8.44  | -0.58 |



TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 30    | 46   | 0.00              | 0.00              | 0.00              | 0.00              | 1.12              | 0.00              | 47   | 0.00              | 0.00              | 0.00              | 0.33              | 1.61              | -0.18             |
|       | 42   | 0.00              | 0.00              | 0.00              | 2.95              | 9.21              | 0.01              | 43   | 0.00              | 0.00              | 0.00              | 0.67              | 8.31              | -0.17             |
| 31    | 47   | 0.00              | 0.00              | 0.00              | 0.11              | 1.56              | -0.08             | 48   | 0.00              | 0.00              | 0.00              | 0.23              | 1.48              | -0.17             |
|       | 43   | 0.00              | 0.00              | 0.00              | 2.07              | 8.59              | -0.01             | 44   | 0.00              | 0.00              | 0.00              | 1.20              | 8.30              | -0.10             |
| 32    | 48   | 0.00              | 0.00              | 0.00              | 0.31              | 1.49              | -0.08             | 49   | 0.00              | 0.00              | 0.00              | 0.12              | 1.44              | -0.09             |
|       | 44   | 0.00              | 0.00              | 0.00              | 1.72              | 8.41              | -0.03             | 15   | 0.00              | 0.00              | 0.00              | 1.46              | 8.21              | -0.04             |
| 33    | 40   | 0.00              | 0.00              | 0.00              | 0.09              | -1.49             | -0.22             | 50   | 0.00              | 0.00              | 0.00              | 0.28              | -1.00             | 0.19              |
|       | 45   | 0.00              | 0.00              | 0.00              | -0.18             | -0.40             | -0.40             | 46   | 0.00              | 0.00              | 0.00              | 0.01              | 0.09              | 0.00              |
| 34    | 50   | 0.00              | 0.00              | 0.00              | -0.29             | -0.80             | 0.03              | 51   | 0.00              | 0.00              | 0.00              | -0.26             | -0.72             | 0.03              |
|       | 46   | 0.00              | 0.00              | 0.00              | -0.07             | 0.34              | -0.01             | 47   | 0.00              | 0.00              | 0.00              | -0.04             | 0.43              | -0.01             |
| 35    | 51   | 0.00              | 0.00              | 0.00              | -0.32             | -0.70             | -0.10             | 52   | 0.00              | 0.00              | 0.00              | -0.28             | -0.69             | -0.10             |
|       | 47   | 0.00              | 0.00              | 0.00              | -0.09             | 0.48              | -0.11             | 48   | 0.00              | 0.00              | 0.00              | -0.05             | 0.48              | -0.11             |
| 36    | 52   | 0.00              | 0.00              | 0.00              | -0.04             | -0.60             | -0.17             | 53   | 0.00              | 0.00              | 0.00              | 0.01              | -0.65             | -0.07             |
|       | 48   | 0.00              | 0.00              | 0.00              | 0.01              | 0.38              | -0.15             | 49   | 0.00              | 0.00              | 0.00              | 0.06              | 0.33              | -0.05             |
| 37    | 54   | 0.00              | 0.00              | 0.00              | 0.15              | -2.41             | 0.43              | 55   | 0.00              | 0.00              | 0.00              | -0.54             | -2.63             | 0.27              |
|       | 40   | 0.00              | 0.00              | 0.00              | 0.49              | -1.80             | 0.49              | 50   | 0.00              | 0.00              | 0.00              | -0.19             | -2.02             | 0.33              |
| 38    | 55   | 0.00              | 0.00              | 0.00              | -0.77             | -2.79             | 0.11              | 56   | 0.00              | 0.00              | 0.00              | -0.86             | -2.87             | 0.05              |
|       | 50   | 0.00              | 0.00              | 0.00              | -0.57             | -2.20             | 0.13              | 51   | 0.00              | 0.00              | 0.00              | -0.66             | -2.28             | 0.07              |
| 39    | 56   | 0.00              | 0.00              | 0.00              | -0.84             | -2.87             | -0.01             | 57   | 0.00              | 0.00              | 0.00              | -0.74             | -2.76             | -0.04             |
|       | 51   | 0.00              | 0.00              | 0.00              | -0.68             | -2.24             | -0.06             | 52   | 0.00              | 0.00              | 0.00              | -0.58             | -2.14             | -0.09             |
| 40    | 57   | 0.00              | 0.00              | 0.00              | -0.45             | -2.53             | -0.18             | 58   | 0.00              | 0.00              | 0.00              | -0.05             | -2.50             | -0.15             |
|       | 52   | 0.00              | 0.00              | 0.00              | -0.42             | -2.17             | -0.19             | 53   | 0.00              | 0.00              | 0.00              | -0.02             | -2.14             | -0.15             |
| 41    | 41   | 0.00              | 0.00              | 0.00              | -1.03             | 6.80              | -2.32             | 59   | 0.00              | 0.00              | 0.00              | 1.09              | -5.14             | -2.60             |
|       | 54   | 0.00              | 0.00              | 0.00              | 0.07              | -3.66             | 1.14              | 55   | 0.00              | 0.00              | 0.00              | -1.05             | -2.42             | 0.86              |
| 42    | 59   | 0.00              | 0.00              | 0.00              | -0.62             | -5.49             | -0.06             | 60   | 0.00              | 0.00              | 0.00              | -1.10             | -2.76             | 0.30              |
|       | 55   | 0.00              | 0.00              | 0.00              | -0.84             | -2.38             | -0.42             | 56   | 0.00              | 0.00              | 0.00              | -1.19             | -4.15             | -0.06             |
| 43    | 60   | 0.00              | 0.00              | 0.00              | -1.11             | -2.77             | -0.26             | 61   | 0.00              | 0.00              | 0.00              | -0.66             | -5.79             | 0.05              |
|       | 56   | 0.00              | 0.00              | 0.00              | -1.21             | -4.15             | 0.14              | 57   | 0.00              | 0.00              | 0.00              | -0.69             | -2.20             | 0.46              |
| 44    | 61   | 0.00              | 0.00              | 0.00              | 0.95              | -5.47             | 2.55              | 62   | 0.00              | 0.00              | 0.00              | -0.86             | 6.52              | 2.24              |
|       | 57   | 0.00              | 0.00              | 0.00              | -1.20             | -2.30             | -0.75             | 58   | 0.00              | 0.00              | 0.00              | 0.41              | -3.95             | -1.06             |
| 45    | 49   | 0.00              | 0.00              | 0.00              | 0.56              | 1.53              | 0.04              | 66   | 0.00              | 0.00              | 0.00              | 0.13              | 1.58              | 0.16              |
|       | 15   | 0.00              | 0.00              | 0.00              | 1.45              | 8.21              | -0.04             | 63   | 0.00              | 0.00              | 0.00              | 1.72              | 8.40              | 0.08              |
| 46    | 66   | 0.00              | 0.00              | 0.00              | 0.28              | 1.61              | 0.18              | 67   | 0.00              | 0.00              | 0.00              | 0.02              | 1.55              | 0.07              |
|       | 63   | 0.00              | 0.00              | 0.00              | 1.22              | 8.30              | 0.12              | 64   | 0.00              | 0.00              | 0.00              | 2.05              | 8.67              | 0.01              |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 47    | 67   | 0.00              | 0.00              | 0.00              | 0.28              | 1.60              | 0.19              | 68   | 0.00              | 0.00              | 0.00              | 0.19              | 1.72              | 0.04              |
|       | 64   | 0.00              | 0.00              | 0.00              | 0.74              | 8.40              | 0.08              | 65   | 0.00              | 0.00              | 0.00              | 2.81              | 9.03              | -0.07             |
| 48    | 68   | 0.00              | 0.00              | 0.00              | 0.48              | 1.78              | 0.02              | 69   | 0.00              | 0.00              | 0.00              | 1.96              | 0.25              | 0.77              |
|       | 65   | 0.00              | 0.00              | 0.00              | -0.55             | 8.35              | 0.18              | 14   | 0.00              | 0.00              | 0.00              | 5.04              | 10.79             | 0.93              |
| 49    | 53   | 0.00              | 0.00              | 0.00              | -0.31             | -2.22             | 0.12              | 70   | 0.00              | 0.00              | 0.00              | -0.33             | -1.68             | 0.16              |
|       | 49   | 0.00              | 0.00              | 0.00              | 0.63              | 1.88              | 0.04              | 66   | 0.00              | 0.00              | 0.00              | 0.11              | 1.49              | 0.08              |
| 50    | 70   | 0.00              | 0.00              | 0.00              | -0.46             | -1.71             | 0.15              | 71   | 0.00              | 0.00              | 0.00              | -0.60             | -1.77             | 0.14              |
|       | 66   | 0.00              | 0.00              | 0.00              | 0.26              | 1.52              | 0.13              | 67   | 0.00              | 0.00              | 0.00              | 0.02              | 1.58              | 0.11              |
| 51    | 71   | 0.00              | 0.00              | 0.00              | -0.66             | -1.78             | 0.05              | 72   | 0.00              | 0.00              | 0.00              | -0.29             | -1.91             | 0.04              |
|       | 67   | 0.00              | 0.00              | 0.00              | 0.28              | 1.63              | 0.13              | 68   | 0.00              | 0.00              | 0.00              | 0.16              | 1.58              | 0.12              |
| 52    | 72   | 0.00              | 0.00              | 0.00              | -0.21             | -1.90             | -0.01             | 73   | 0.00              | 0.00              | 0.00              | 0.45              | -2.08             | -0.55             |
|       | 68   | 0.00              | 0.00              | 0.00              | 0.45              | 1.64              | 0.46              | 69   | 0.00              | 0.00              | 0.00              | 2.07              | 0.82              | -0.09             |
| 53    | 58   | 0.00              | 0.00              | 0.00              | 0.52              | -2.83             | 0.14              | 74   | 0.00              | 0.00              | 0.00              | -1.22             | -3.12             | 0.33              |
|       | 53   | 0.00              | 0.00              | 0.00              | -0.23             | -1.86             | 0.09              | 70   | 0.00              | 0.00              | 0.00              | -0.35             | -1.78             | 0.28              |
| 54    | 74   | 0.00              | 0.00              | 0.00              | -0.81             | -3.04             | 0.12              | 75   | 0.00              | 0.00              | 0.00              | -1.03             | -3.48             | 0.02              |
|       | 70   | 0.00              | 0.00              | 0.00              | -0.48             | -1.81             | 0.21              | 71   | 0.00              | 0.00              | 0.00              | -0.59             | -1.73             | 0.11              |
| 55    | 75   | 0.00              | 0.00              | 0.00              | -1.04             | -3.49             | 0.08              | 76   | 0.00              | 0.00              | 0.00              | -0.77             | -3.29             | -0.06             |
|       | 71   | 0.00              | 0.00              | 0.00              | -0.65             | -1.74             | 0.09              | 72   | 0.00              | 0.00              | 0.00              | -0.28             | -1.84             | -0.05             |
| 56    | 76   | 0.00              | 0.00              | 0.00              | -1.13             | -3.36             | -0.10             | 77   | 0.00              | 0.00              | 0.00              | 0.74              | -2.23             | -0.27             |
|       | 72   | 0.00              | 0.00              | 0.00              | -0.20             | -1.83             | -0.21             | 73   | 0.00              | 0.00              | 0.00              | 0.45              | -2.10             | -0.38             |
| 57    | 62   | 0.00              | 0.00              | 0.00              | -0.95             | 6.50              | -2.22             | 78   | 0.00              | 0.00              | 0.00              | 1.01              | -5.83             | -2.52             |
|       | 58   | 0.00              | 0.00              | 0.00              | 0.29              | -3.97             | 1.17              | 74   | 0.00              | 0.00              | 0.00              | -1.03             | -2.19             | 0.86              |
| 58    | 78   | 0.00              | 0.00              | 0.00              | -0.73             | -6.18             | -0.03             | 79   | 0.00              | 0.00              | 0.00              | -1.17             | -3.38             | 0.27              |
|       | 74   | 0.00              | 0.00              | 0.00              | -0.62             | -2.11             | -0.36             | 75   | 0.00              | 0.00              | 0.00              | -1.15             | -4.06             | -0.06             |
| 59    | 79   | 0.00              | 0.00              | 0.00              | -1.12             | -3.37             | -0.22             | 80   | 0.00              | 0.00              | 0.00              | -0.82             | -6.33             | 0.03              |
|       | 75   | 0.00              | 0.00              | 0.00              | -1.16             | -4.06             | 0.16              | 76   | 0.00              | 0.00              | 0.00              | -0.53             | -2.10             | 0.41              |
| 60    | 80   | 0.00              | 0.00              | 0.00              | 0.91              | -5.99             | 2.38              | 81   | 0.00              | 0.00              | 0.00              | -0.90             | 6.36              | 1.94              |
|       | 76   | 0.00              | 0.00              | 0.00              | -0.90             | -2.18             | -0.73             | 77   | 0.00              | 0.00              | 0.00              | 0.21              | -4.88             | -1.16             |
| 61    | 17   | 0.00              | 0.00              | 0.00              | -1.40             | -0.63             | 0.37              | 86   | 0.00              | 0.00              | 0.00              | 0.57              | 0.11              | 0.36              |
|       | 12   | 0.00              | 0.00              | 0.00              | -1.56             | 0.07              | -0.10             | 82   | 0.00              | 0.00              | 0.00              | 0.40              | 0.81              | -0.11             |
| 62    | 86   | 0.00              | 0.00              | 0.00              | 0.27              | 0.47              | 0.27              | 87   | 0.00              | 0.00              | 0.00              | 0.97              | 0.90              | 0.27              |
|       | 82   | 0.00              | 0.00              | 0.00              | 0.15              | 1.05              | -0.11             | 83   | 0.00              | 0.00              | 0.00              | 0.85              | 1.48              | -0.11             |
| 63    | 87   | 0.00              | 0.00              | 0.00              | 0.63              | 1.07              | 0.14              | 88   | 0.00              | 0.00              | 0.00              | 0.70              | 1.13              | 0.12              |
|       | 83   | 0.00              | 0.00              | 0.00              | 0.65              | 1.58              | 0.12              | 84   | 0.00              | 0.00              | 0.00              | 0.73              | 1.63              | 0.10              |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 64    | 88   | 0.00              | 0.00              | 0.00              | 0.66              | 1.48              | -0.14             | 89   | 0.00              | 0.00              | 0.00              | -0.58             | 0.45              | -0.16             |
|       | 84   | 0.00              | 0.00              | 0.00              | 0.79              | 0.50              | 0.74              | 85   | 0.00              | 0.00              | 0.00              | -0.45             | -0.53             | 0.72              |
| 65    | 14   | 0.00              | 0.00              | 0.00              | 1.47              | 1.24              | 1.01              | 90   | 0.00              | 0.00              | 0.00              | 1.15              | 1.40              | 1.35              |
|       | 17   | 0.00              | 0.00              | 0.00              | 0.52              | 0.94              | 0.81              | 86   | 0.00              | 0.00              | 0.00              | 0.19              | 1.10              | 1.15              |
| 66    | 90   | 0.00              | 0.00              | 0.00              | -0.16             | 1.00              | 0.97              | 91   | 0.00              | 0.00              | 0.00              | -0.34             | 0.88              | 0.70              |
|       | 86   | 0.00              | 0.00              | 0.00              | 0.60              | 1.45              | 1.06              | 87   | 0.00              | 0.00              | 0.00              | 0.41              | 1.33              | 0.80              |
| 67    | 91   | 0.00              | 0.00              | 0.00              | -0.19             | 0.68              | 0.40              | 92   | 0.00              | 0.00              | 0.00              | -0.12             | 0.66              | 0.21              |
|       | 87   | 0.00              | 0.00              | 0.00              | 0.40              | 1.43              | 0.47              | 88   | 0.00              | 0.00              | 0.00              | 0.46              | 1.41              | 0.28              |
| 68    | 92   | 0.00              | 0.00              | 0.00              | -0.03             | 0.67              | 0.09              | 93   | 0.00              | 0.00              | 0.00              | -0.03             | 0.58              | 0.03              |
|       | 88   | 0.00              | 0.00              | 0.00              | 0.14              | 1.23              | 0.22              | 89   | 0.00              | 0.00              | 0.00              | 0.15              | 1.15              | 0.16              |
| 69    | 94   | 0.00              | 0.00              | 0.00              | -0.28             | 0.33              | -0.61             | 90   | 0.00              | 0.00              | 0.00              | 0.47              | 2.66              | 0.01              |
|       | 69   | 0.00              | 0.00              | 0.00              | 2.94              | 2.74              | -0.49             | 14   | 0.00              | 0.00              | 0.00              | 3.69              | 5.07              | 0.13              |
| 70    | 94   | 0.00              | 0.00              | 0.00              | -0.34             | 0.05              | -0.41             | 95   | 0.00              | 0.00              | 0.00              | -0.96             | -0.43             | -0.39             |
|       | 90   | 0.00              | 0.00              | 0.00              | -0.43             | 0.80              | 0.00              | 91   | 0.00              | 0.00              | 0.00              | -1.05             | 0.32              | 0.03              |
| 71    | 95   | 0.00              | 0.00              | 0.00              | -0.60             | -0.58             | -0.25             | 96   | 0.00              | 0.00              | 0.00              | -0.81             | -0.79             | -0.27             |
|       | 91   | 0.00              | 0.00              | 0.00              | -0.55             | 0.06              | -0.05             | 92   | 0.00              | 0.00              | 0.00              | -0.76             | -0.15             | -0.06             |
| 72    | 96   | 0.00              | 0.00              | 0.00              | -0.13             | -0.64             | -0.10             | 97   | 0.00              | 0.00              | 0.00              | -0.11             | -0.62             | -0.07             |
|       | 92   | 0.00              | 0.00              | 0.00              | -0.25             | -0.24             | -0.11             | 93   | 0.00              | 0.00              | 0.00              | -0.23             | -0.22             | -0.08             |
| 73    | 77   | 0.00              | 0.00              | 0.00              | -0.03             | -2.68             | -0.05             | 98   | 0.00              | 0.00              | 0.00              | -0.84             | -2.96             | -0.28             |
|       | 73   | 0.00              | 0.00              | 0.00              | 0.47              | -1.96             | -0.03             | 94   | 0.00              | 0.00              | 0.00              | -0.34             | -2.24             | -0.26             |
| 74    | 98   | 0.00              | 0.00              | 0.00              | -0.82             | -2.94             | -0.32             | 99   | 0.00              | 0.00              | 0.00              | -0.62             | -2.80             | -0.26             |
|       | 94   | 0.00              | 0.00              | 0.00              | -1.03             | -2.37             | -0.43             | 95   | 0.00              | 0.00              | 0.00              | -0.83             | -2.22             | -0.37             |
| 75    | 99   | 0.00              | 0.00              | 0.00              | -0.90             | -2.80             | -0.01             | 100  | 0.00              | 0.00              | 0.00              | -0.55             | -2.53             | 0.04              |
|       | 95   | 0.00              | 0.00              | 0.00              | -1.07             | -1.98             | -0.23             | 96   | 0.00              | 0.00              | 0.00              | -0.73             | -1.71             | -0.18             |
| 76    | 100  | 0.00              | 0.00              | 0.00              | -0.87             | -1.26             | 0.71              | 101  | 0.00              | 0.00              | 0.00              | 0.49              | -0.08             | 0.72              |
|       | 96   | 0.00              | 0.00              | 0.00              | -0.87             | -1.86             | -0.33             | 97   | 0.00              | 0.00              | 0.00              | 0.49              | -0.68             | -0.32             |
| 77    | 94   | 0.00              | 0.00              | 0.00              | 0.67              | -0.80             | -0.46             | 94   | 0.00              | 0.00              | 0.00              | 0.67              | -0.80             | -0.46             |
|       | 73   | 0.00              | 0.00              | 0.00              | 0.67              | -0.80             | -0.46             | 69   | 0.00              | 0.00              | 0.00              | 0.67              | -0.80             | -0.46             |
| 78    | 81   | 0.00              | 0.00              | 0.00              | -0.10             | 0.75              | -1.32             | 81   | 0.00              | 0.00              | 0.00              | -0.10             | 0.75              | -1.32             |
|       | 77   | 0.00              | 0.00              | 0.00              | -0.10             | 0.75              | -1.32             | 98   | 0.00              | 0.00              | 0.00              | -0.10             | 0.75              | -1.32             |
| 79    | 89   | 0.00              | 0.00              | 0.00              | 0.14              | 4.04              | 1.44              | 106  | 0.00              | 0.00              | 0.00              | 0.48              | 0.73              | 1.42              |
|       | 85   | 0.00              | 0.00              | 0.00              | -0.25             | -4.82             | -1.72             | 102  | 0.00              | 0.00              | 0.00              | -0.38             | 2.83              | -1.74             |
| 80    | 106  | 0.00              | 0.00              | 0.00              | 0.33              | 0.70              | 0.07              | 107  | 0.00              | 0.00              | 0.00              | 0.45              | 1.34              | 0.16              |
|       | 102  | 0.00              | 0.00              | 0.00              | -0.04             | 2.90              | -0.09             | 103  | 0.00              | 0.00              | 0.00              | 1.18              | 2.75              | 0.00              |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 81    | 107  | 0.00              | 0.00              | 0.00              | 0.49              | 1.35              | -0.05             | 108  | 0.00              | 0.00              | 0.00              | 0.27              | 0.58              | 0.03              |
|       | 103  | 0.00              | 0.00              | 0.00              | 0.99              | 2.71              | 0.04              | 104  | 0.00              | 0.00              | 0.00              | 0.21              | 3.16              | 0.12              |
| 82    | 108  | 0.00              | 0.00              | 0.00              | 0.68              | 0.66              | -1.37             | 109  | 0.00              | 0.00              | 0.00              | -0.06             | 3.68              | -1.50             |
|       | 104  | 0.00              | 0.00              | 0.00              | -1.14             | 2.89              | 1.99              | 105  | 0.00              | 0.00              | 0.00              | 1.14              | -4.41             | 1.86              |
| 83    | 93   | 0.00              | 0.00              | 0.00              | -0.12             | 0.12              | 0.10              | 110  | 0.00              | 0.00              | 0.00              | 0.01              | -0.01             | 0.15              |
|       | 89   | 0.00              | 0.00              | 0.00              | -0.39             | 1.41              | 0.09              | 106  | 0.00              | 0.00              | 0.00              | 0.69              | 1.79              | 0.14              |
| 84    | 110  | 0.00              | 0.00              | 0.00              | -0.01             | -0.01             | 0.01              | 111  | 0.00              | 0.00              | 0.00              | 0.05              | 0.17              | -0.08             |
|       | 106  | 0.00              | 0.00              | 0.00              | 0.54              | 1.76              | 0.21              | 107  | 0.00              | 0.00              | 0.00              | 0.44              | 1.29              | 0.12              |
| 85    | 111  | 0.00              | 0.00              | 0.00              | 0.04              | 0.17              | 0.10              | 112  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | 0.01              |
|       | 107  | 0.00              | 0.00              | 0.00              | 0.48              | 1.30              | -0.06             | 108  | 0.00              | 0.00              | 0.00              | 0.49              | 1.69              | -0.15             |
| 86    | 112  | 0.00              | 0.00              | 0.00              | 0.00              | -0.01             | -0.10             | 113  | 0.00              | 0.00              | 0.00              | 0.01              | 0.04              | -0.04             |
|       | 108  | 0.00              | 0.00              | 0.00              | 0.90              | 1.77              | -0.13             | 109  | 0.00              | 0.00              | 0.00              | -0.50             | 1.49              | -0.07             |
| 87    | 97   | 0.00              | 0.00              | 0.00              | 0.64              | -0.76             | -0.13             | 114  | 0.00              | 0.00              | 0.00              | -0.60             | -1.28             | 0.01              |
|       | 93   | 0.00              | 0.00              | 0.00              | -0.12             | 0.09              | 0.05              | 110  | 0.00              | 0.00              | 0.00              | 0.04              | 0.16              | 0.19              |
| 88    | 114  | 0.00              | 0.00              | 0.00              | -0.35             | -1.23             | 0.10              | 115  | 0.00              | 0.00              | 0.00              | -0.35             | -0.89             | 0.04              |
|       | 110  | 0.00              | 0.00              | 0.00              | 0.02              | 0.15              | 0.00              | 111  | 0.00              | 0.00              | 0.00              | 0.00              | -0.06             | -0.06             |
| 89    | 115  | 0.00              | 0.00              | 0.00              | -0.34             | -0.89             | -0.14             | 116  | 0.00              | 0.00              | 0.00              | -0.43             | -1.38             | -0.22             |
|       | 111  | 0.00              | 0.00              | 0.00              | 0.00              | -0.06             | 0.10              | 112  | 0.00              | 0.00              | 0.00              | 0.02              | 0.09              | 0.03              |
| 90    | 116  | 0.00              | 0.00              | 0.00              | -0.80             | -1.45             | -0.19             | 117  | 0.00              | 0.00              | 0.00              | 0.54              | -1.25             | -0.13             |
|       | 112  | 0.00              | 0.00              | 0.00              | 0.02              | 0.09              | -0.10             | 113  | 0.00              | 0.00              | 0.00              | 0.01              | 0.03              | -0.03             |
| 91    | 101  | 0.00              | 0.00              | 0.00              | -0.14             | 3.61              | -1.75             | 118  | 0.00              | 0.00              | 0.00              | 0.43              | -3.81             | -1.77             |
|       | 97   | 0.00              | 0.00              | 0.00              | 0.07              | -3.59             | 1.26              | 114  | 0.00              | 0.00              | 0.00              | -0.39             | -0.24             | 1.23              |
| 92    | 118  | 0.00              | 0.00              | 0.00              | -0.20             | -3.94             | -0.14             | 119  | 0.00              | 0.00              | 0.00              | -1.17             | -3.53             | -0.05             |
|       | 114  | 0.00              | 0.00              | 0.00              | -0.14             | -0.19             | -0.07             | 115  | 0.00              | 0.00              | 0.00              | -0.36             | -0.94             | 0.02              |
| 93    | 119  | 0.00              | 0.00              | 0.00              | -1.16             | -3.52             | -0.01             | 120  | 0.00              | 0.00              | 0.00              | -0.22             | -3.77             | 0.08              |
|       | 115  | 0.00              | 0.00              | 0.00              | -0.35             | -0.94             | -0.17             | 116  | 0.00              | 0.00              | 0.00              | -0.21             | -0.27             | -0.07             |
| 94    | 120  | 0.00              | 0.00              | 0.00              | 1.01              | -3.52             | 1.94              | 121  | 0.00              | 0.00              | 0.00              | -1.13             | 3.94              | 1.83              |
|       | 116  | 0.00              | 0.00              | 0.00              | -0.58             | -0.34             | -1.47             | 117  | 0.00              | 0.00              | 0.00              | 0.10              | -3.45             | -1.58             |
| 95    | 109  | 0.00              | 0.00              | 0.00              | -0.15             | 3.67              | 1.53              | 126  | 0.00              | 0.00              | 0.00              | 0.76              | 0.77              | 1.38              |
|       | 105  | 0.00              | 0.00              | 0.00              | 1.47              | -4.34             | -1.99             | 122  | 0.00              | 0.00              | 0.00              | -1.41             | 2.57              | -2.14             |
| 96    | 126  | 0.00              | 0.00              | 0.00              | 0.27              | 0.67              | -0.03             | 127  | 0.00              | 0.00              | 0.00              | 0.50              | 1.36              | 0.05              |
|       | 122  | 0.00              | 0.00              | 0.00              | 0.15              | 2.88              | -0.25             | 123  | 0.00              | 0.00              | 0.00              | 0.94              | 2.68              | -0.17             |
| 97    | 127  | 0.00              | 0.00              | 0.00              | 0.44              | 1.34              | -0.30             | 128  | 0.00              | 0.00              | 0.00              | 0.40              | 0.93              | -0.21             |
|       | 123  | 0.00              | 0.00              | 0.00              | 1.14              | 2.72              | 0.04              | 124  | 0.00              | 0.00              | 0.00              | -0.12             | 2.45              | 0.12              |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 98    | 128  | 0.00              | 0.00              | 0.00              | 0.73              | 0.99              | -1.64             | 129  | 0.00              | 0.00              | 0.00              | 0.14              | 4.19              | -1.77             |
|       | 124  | 0.00              | 0.00              | 0.00              | -1.18             | 2.24              | 2.00              | 125  | 0.00              | 0.00              | 0.00              | 1.04              | -5.18             | 1.86              |
| 99    | 113  | 0.00              | 0.00              | 0.00              | 0.00              | 0.04              | 0.06              | 130  | 0.00              | 0.00              | 0.00              | -0.01             | -0.03             | 0.12              |
|       | 109  | 0.00              | 0.00              | 0.00              | -0.59             | 1.47              | 0.04              | 126  | 0.00              | 0.00              | 0.00              | 0.98              | 1.87              | 0.10              |
| 100   | 130  | 0.00              | 0.00              | 0.00              | -0.01             | -0.03             | 0.00              | 131  | 0.00              | 0.00              | 0.00              | 0.03              | 0.15              | -0.08             |
|       | 126  | 0.00              | 0.00              | 0.00              | 0.49              | 1.77              | 0.12              | 127  | 0.00              | 0.00              | 0.00              | 0.52              | 1.46              | 0.04              |
| 101   | 131  | 0.00              | 0.00              | 0.00              | 0.03              | 0.15              | 0.12              | 132  | 0.00              | 0.00              | 0.00              | -0.01             | -0.04             | 0.04              |
|       | 127  | 0.00              | 0.00              | 0.00              | 0.46              | 1.45              | -0.17             | 128  | 0.00              | 0.00              | 0.00              | 0.62              | 2.03              | -0.25             |
| 102   | 132  | 0.00              | 0.00              | 0.00              | -0.01             | -0.04             | -0.08             | 133  | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              | -0.05             |
|       | 128  | 0.00              | 0.00              | 0.00              | 0.95              | 2.09              | -0.23             | 129  | 0.00              | 0.00              | 0.00              | -0.30             | 1.98              | -0.19             |
| 103   | 117  | 0.00              | 0.00              | 0.00              | 0.66              | -1.23             | -0.01             | 134  | 0.00              | 0.00              | 0.00              | -0.95             | -1.69             | 0.05              |
|       | 113  | 0.00              | 0.00              | 0.00              | 0.00              | 0.03              | 0.06              | 130  | 0.00              | 0.00              | 0.00              | 0.01              | 0.08              | 0.12              |
| 104   | 134  | 0.00              | 0.00              | 0.00              | -0.44             | -1.58             | 0.08              | 135  | 0.00              | 0.00              | 0.00              | -0.50             | -1.32             | 0.00              |
|       | 130  | 0.00              | 0.00              | 0.00              | 0.01              | 0.08              | 0.00              | 131  | 0.00              | 0.00              | 0.00              | -0.02             | -0.11             | -0.08             |
| 105   | 135  | 0.00              | 0.00              | 0.00              | -0.42             | -1.30             | -0.20             | 136  | 0.00              | 0.00              | 0.00              | -0.60             | -1.92             | -0.28             |
|       | 131  | 0.00              | 0.00              | 0.00              | -0.02             | -0.11             | 0.12              | 132  | 0.00              | 0.00              | 0.00              | 0.01              | 0.07              | 0.04              |
| 106   | 136  | 0.00              | 0.00              | 0.00              | -0.91             | -1.98             | -0.25             | 137  | 0.00              | 0.00              | 0.00              | 0.32              | -1.90             | -0.21             |
|       | 132  | 0.00              | 0.00              | 0.00              | 0.01              | 0.07              | -0.08             | 133  | 0.00              | 0.00              | 0.00              | 0.00              | 0.02              | -0.04             |
| 107   | 121  | 0.00              | 0.00              | 0.00              | -1.60             | 3.85              | -2.02             | 138  | 0.00              | 0.00              | 0.00              | 1.42              | -2.93             | -2.16             |
|       | 117  | 0.00              | 0.00              | 0.00              | 0.22              | -3.43             | 1.45              | 134  | 0.00              | 0.00              | 0.00              | -0.73             | -0.59             | 1.31              |
| 108   | 138  | 0.00              | 0.00              | 0.00              | -0.24             | -3.26             | -0.28             | 139  | 0.00              | 0.00              | 0.00              | -0.94             | -2.96             | -0.19             |
|       | 134  | 0.00              | 0.00              | 0.00              | -0.22             | -0.49             | -0.10             | 135  | 0.00              | 0.00              | 0.00              | -0.48             | -1.22             | 0.00              |
| 109   | 139  | 0.00              | 0.00              | 0.00              | -1.19             | -3.01             | 0.01              | 140  | 0.00              | 0.00              | 0.00              | 0.11              | -2.67             | 0.11              |
|       | 135  | 0.00              | 0.00              | 0.00              | -0.40             | -1.20             | -0.35             | 136  | 0.00              | 0.00              | 0.00              | -0.38             | -0.82             | -0.26             |
| 110   | 140  | 0.00              | 0.00              | 0.00              | 1.13              | -2.47             | 1.98              | 141  | 0.00              | 0.00              | 0.00              | -1.03             | 5.02              | 1.85              |
|       | 136  | 0.00              | 0.00              | 0.00              | -0.69             | -0.88             | -1.68             | 137  | 0.00              | 0.00              | 0.00              | -0.13             | -4.11             | -1.81             |
| 111   | 129  | 0.00              | 0.00              | 0.00              | -0.04             | 4.15              | 1.24              | 146  | 0.00              | 0.00              | 0.00              | 1.28              | 1.54              | 1.10              |
|       | 125  | 0.00              | 0.00              | 0.00              | 1.72              | -5.05             | -2.02             | 142  | 0.00              | 0.00              | 0.00              | -1.73             | 1.46              | -2.16             |
| 112   | 146  | 0.00              | 0.00              | 0.00              | 0.58              | 1.40              | -0.30             | 147  | 0.00              | 0.00              | 0.00              | 1.60              | 1.97              | 0.00              |
|       | 142  | 0.00              | 0.00              | 0.00              | 0.60              | 1.92              | -0.34             | 143  | 0.00              | 0.00              | 0.00              | 0.28              | 1.54              | -0.04             |
| 113   | 147  | 0.00              | 0.00              | 0.00              | 1.52              | 1.96              | -0.38             | 148  | 0.00              | 0.00              | 0.00              | 1.75              | 2.46              | 0.04              |
|       | 143  | 0.00              | 0.00              | 0.00              | 0.91              | 1.67              | 0.38              | 144  | 0.00              | 0.00              | 0.00              | 0.00              | 0.02              | 0.80              |
| 114   | 148  | 0.00              | 0.00              | 0.00              | 1.27              | 2.36              | -1.35             | 149  | 0.00              | 0.00              | 0.00              | -7.10             | -15.79            | -1.59             |
|       | 144  | 0.00              | 0.00              | 0.00              | 4.93              | 1.01              | 1.72              | 145  | 0.00              | 0.00              | 0.00              | -4.54             | 11.52             | 1.48              |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 115   | 133  | 0.00              | 0.00              | 0.00              | 0.00              | 0.01              | 0.04              | 150  | 0.00              | 0.00              | 0.00              | -0.01             | -0.08             | 0.02              |
|       | 129  | 0.00              | 0.00              | 0.00              | -0.48             | 1.94              | -0.05             | 146  | 0.00              | 0.00              | 0.00              | 1.48              | 2.54              | -0.07             |
| 116   | 150  | 0.00              | 0.00              | 0.00              | -0.01             | -0.08             | -0.21             | 151  | 0.00              | 0.00              | 0.00              | -0.04             | -0.20             | -0.55             |
|       | 146  | 0.00              | 0.00              | 0.00              | 0.77              | 2.40              | 0.09              | 147  | 0.00              | 0.00              | 0.00              | 1.66              | 2.30              | -0.26             |
| 117   | 151  | 0.00              | 0.00              | 0.00              | -0.04             | -0.20             | -0.68             | 152  | 0.00              | 0.00              | 0.00              | 0.32              | 1.65              | -1.23             |
|       | 147  | 0.00              | 0.00              | 0.00              | 1.59              | 2.28              | -0.18             | 148  | 0.00              | 0.00              | 0.00              | 1.21              | -0.23             | -0.73             |
| 118   | 152  | 0.00              | 0.00              | 0.00              | 0.32              | 1.65              | -1.69             | 153  | 0.00              | 0.00              | 0.00              | -3.83             | -19.00            | -0.98             |
|       | 148  | 0.00              | 0.00              | 0.00              | 0.73              | -0.33             | -0.65             | 149  | 0.00              | 0.00              | 0.00              | -0.36             | 17.89             | 0.07              |
| 119   | 137  | 0.00              | 0.00              | 0.00              | 0.51              | -1.86             | -0.07             | 154  | 0.00              | 0.00              | 0.00              | -1.47             | -2.48             | -0.09             |
|       | 133  | 0.00              | 0.00              | 0.00              | 0.00              | 0.02              | 0.04              | 150  | 0.00              | 0.00              | 0.00              | 0.02              | 0.10              | 0.02              |
| 120   | 154  | 0.00              | 0.00              | 0.00              | -0.75             | -2.33             | 0.07              | 155  | 0.00              | 0.00              | 0.00              | -1.65             | -2.26             | -0.28             |
|       | 150  | 0.00              | 0.00              | 0.00              | 0.02              | 0.10              | -0.21             | 151  | 0.00              | 0.00              | 0.00              | 0.04              | 0.21              | -0.55             |
| 121   | 155  | 0.00              | 0.00              | 0.00              | -1.58             | -2.25             | -0.20             | 156  | 0.00              | 0.00              | 0.00              | -1.21             | 0.25              | -0.75             |
|       | 151  | 0.00              | 0.00              | 0.00              | 0.04              | 0.21              | -0.68             | 152  | 0.00              | 0.00              | 0.00              | -0.34             | -1.65             | -1.23             |
| 122   | 156  | 0.00              | 0.00              | 0.00              | -0.73             | 0.35              | -0.66             | 157  | 0.00              | 0.00              | 0.00              | 0.31              | -17.91            | 0.06              |
|       | 152  | 0.00              | 0.00              | 0.00              | -0.34             | -1.65             | -1.69             | 153  | 0.00              | 0.00              | 0.00              | 3.77              | 18.99             | -0.97             |
| 123   | 141  | 0.00              | 0.00              | 0.00              | -1.77             | 4.87              | -2.03             | 158  | 0.00              | 0.00              | 0.00              | 1.73              | -1.57             | -2.17             |
|       | 137  | 0.00              | 0.00              | 0.00              | 0.07              | -4.07             | 1.21              | 154  | 0.00              | 0.00              | 0.00              | -1.27             | -1.49             | 1.07              |
| 124   | 158  | 0.00              | 0.00              | 0.00              | -0.63             | -2.04             | -0.35             | 159  | 0.00              | 0.00              | 0.00              | -0.28             | -1.61             | -0.05             |
|       | 154  | 0.00              | 0.00              | 0.00              | -0.56             | -1.34             | -0.33             | 155  | 0.00              | 0.00              | 0.00              | -1.59             | -1.93             | -0.03             |
| 125   | 159  | 0.00              | 0.00              | 0.00              | -0.92             | -1.74             | 0.37              | 160  | 0.00              | 0.00              | 0.00              | 0.00              | -0.05             | 0.79              |
|       | 155  | 0.00              | 0.00              | 0.00              | -1.51             | -1.92             | -0.41             | 156  | 0.00              | 0.00              | 0.00              | -1.75             | -2.45             | 0.01              |
| 126   | 160  | 0.00              | 0.00              | 0.00              | -4.94             | -1.04             | 1.71              | 161  | 0.00              | 0.00              | 0.00              | 4.55              | -11.54            | 1.48              |
|       | 156  | 0.00              | 0.00              | 0.00              | -1.27             | -2.35             | -1.38             | 157  | 0.00              | 0.00              | 0.00              | 7.05              | 15.79             | -1.60             |
| 127   | 162  | 0.36              | 1.93              | -3.43             | -25.15            | -125.76           | 7.33              | 301  | -0.15             | -0.61             | -6.06             | 5.84              | 29.18             | 7.33              |
|       | 18   | 0.36              | 1.93              | -0.78             | 14.29             | 71.45             | -7.35             | 283  | -0.15             | -0.61             | -3.41             | -4.40             | -22.00            | -7.35             |
| 128   | 163  | 0.24              | 1.40              | -1.36             | -17.88            | -89.39            | 9.12              | 304  | -0.05             | -0.07             | -0.43             | 3.86              | 19.28             | 9.12              |
|       | 19   | 0.24              | 1.40              | -0.23             | 4.35              | 21.75             | -9.15             | 22   | -0.05             | -0.07             | 0.70              | -2.99             | -14.97            | -9.15             |
| 129   | 164  | 0.11              | 0.25              | -0.12             | -13.37            | -66.85            | 4.85              | 310  | 0.02              | -0.20             | -0.24             | 3.30              | 16.49             | 4.85              |
|       | 11   | 0.11              | 0.25              | -0.20             | 4.90              | 24.52             | -4.87             | 307  | 0.02              | -0.20             | -0.32             | -1.56             | -7.78             | -4.87             |
| 130   | 166  | 0.36              | 1.43              | 0.01              | -15.08            | -75.42            | 7.37              | 316  | -0.06             | -0.69             | -0.17             | 3.59              | 17.94             | 7.37              |
|       | 165  | 0.36              | 1.43              | 0.80              | 2.16              | 10.80             | -7.39             | 313  | -0.06             | -0.69             | 0.63              | -1.01             | -5.06             | -7.39             |
| 131   | 167  | 0.12              | 0.35              | -2.49             | -13.01            | -65.03            | 4.83              | 319  | 0.05              | -0.05             | -4.22             | 3.11              | 15.55             | 4.83              |
|       | 12   | 0.12              | 0.35              | -1.62             | 4.62              | 23.11             | -4.85             | 82   | 0.05              | -0.05             | -3.35             | -2.79             | -13.94            | -4.85             |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11   | S22   | S12    | M11    | M22     | M12   | Nodo | S11   | S22   | S12   | M11   | M22    | M12   |
|-------|------|-------|-------|--------|--------|---------|-------|------|-------|-------|-------|-------|--------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq   | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq |
| 132   | 168  | 0.29  | 1.13  | -1.42  | -16.47 | -82.37  | 7.64  | 322  | 0.03  | -0.21 | -1.47 | 3.87  | 19.33  | 7.64  |
|       | 85   | 0.29  | 1.13  | -0.94  | 3.36   | 16.78   | -7.67 | 102  | 0.03  | -0.21 | -1.00 | -2.44 | -12.20 | -7.67 |
| 133   | 169  | 0.18  | 0.81  | -0.49  | -16.54 | -82.70  | 8.38  | 325  | 0.04  | 0.08  | 0.20  | 3.75  | 18.76  | 8.38  |
|       | 105  | 0.18  | 0.81  | -0.35  | 3.07   | 15.35   | -8.40 | 122  | 0.04  | 0.08  | 0.34  | -2.54 | -12.71 | -8.40 |
| 134   | 170  | 0.17  | 0.55  | 1.19   | -16.73 | -83.64  | 8.10  | 328  | 0.10  | 0.20  | 2.56  | 3.99  | 19.93  | 8.10  |
|       | 125  | 0.17  | 0.55  | 0.74   | 3.24   | 16.22   | -8.12 | 142  | 0.10  | 0.20  | 2.12  | -2.47 | -12.37 | -8.12 |
| 135   | 172  | -0.34 | -1.89 | 3.76   | -25.21 | -126.06 | 7.28  | 331  | 0.17  | 0.66  | 6.81  | 5.85  | 29.25  | 7.28  |
|       | 20   | -0.34 | -1.89 | 0.94   | 14.38  | 71.89   | -7.30 | 298  | 0.17  | 0.66  | 3.99  | -4.47 | -22.37 | -7.30 |
| 136   | 173  | -0.08 | -0.88 | 2.69   | -17.77 | -88.86  | 9.57  | 334  | 0.04  | -0.30 | 2.39  | 3.83  | 19.13  | 9.57  |
|       | 21   | -0.08 | -0.88 | 1.98   | 3.78   | 18.90   | -9.60 | 37   | 0.04  | -0.30 | 1.69  | -2.72 | -13.62 | -9.60 |
| 137   | 174  | -0.12 | -0.67 | 1.45   | -16.43 | -82.15  | 7.23  | 337  | 0.02  | 0.02  | 1.04  | 3.96  | 19.78  | 7.23  |
|       | 41   | -0.12 | -0.67 | 1.01   | 2.92   | 14.58   | -7.25 | 59   | 0.02  | 0.02  | 0.59  | -2.27 | -11.35 | -7.25 |
| 138   | 175  | -0.18 | -0.78 | 0.65   | -15.17 | -75.86  | 6.83  | 340  | 0.01  | 0.20  | 0.40  | 3.67  | 18.34  | 6.83  |
|       | 62   | -0.18 | -0.78 | 0.29   | 2.29   | 11.46   | -6.85 | 78   | 0.01  | 0.20  | 0.04  | -2.18 | -10.89 | -6.85 |
| 139   | 176  | -0.19 | -0.77 | 0.66   | -15.91 | -79.56  | 7.66  | 343  | 0.00  | 0.20  | 0.45  | 3.68  | 18.40  | 7.66  |
|       | 81   | -0.19 | -0.77 | 0.27   | 2.82   | 14.12   | -7.68 | 98   | 0.00  | 0.20  | 0.06  | -2.96 | -14.78 | -7.68 |
| 140   | 177  | -0.27 | -0.87 | 0.16   | -16.47 | -82.34  | 7.66  | 346  | -0.05 | 0.26  | 0.22  | 3.86  | 19.32  | 7.66  |
|       | 101  | -0.27 | -0.87 | 0.07   | 3.20   | 16.02   | -7.68 | 118  | -0.05 | 0.26  | 0.14  | -2.55 | -12.77 | -7.68 |
| 141   | 178  | -0.18 | -0.74 | 0.12   | -16.53 | -82.66  | 8.38  | 349  | -0.04 | -0.05 | -0.56 | 3.75  | 18.74  | 8.38  |
|       | 121  | -0.18 | -0.74 | 0.09   | 3.01   | 15.06   | -8.40 | 138  | -0.04 | -0.05 | -0.59 | -2.58 | -12.92 | -8.40 |
| 142   | 179  | -0.17 | -0.53 | -1.27  | -16.73 | -83.63  | 8.10  | 352  | -0.10 | -0.20 | -2.65 | 3.98  | 19.92  | 8.10  |
|       | 141  | -0.17 | -0.53 | -0.79  | 3.22   | 16.12   | -8.12 | 158  | -0.10 | -0.20 | -2.16 | -2.49 | -12.43 | -8.12 |
| 143   | 162  | 3.29  | 5.70  | 9.84   | -0.54  | -2.70   | -0.04 | 355  | 0.37  | -8.92 | 21.98 | 0.14  | 0.68   | -0.04 |
|       | 18   | 3.29  | 5.70  | -13.84 | 0.01   | 0.05    | 0.02  | 286  | 0.37  | -8.92 | -1.70 | -0.77 | -3.85  | 0.02  |
| 144   | 171  | 3.24  | 5.56  | 10.96  | 0.54   | 2.69    | 0.04  | 358  | 0.37  | -8.80 | 23.41 | -0.14 | -0.69  | 0.04  |
|       | 145  | 3.24  | 5.56  | -12.67 | -0.05  | -0.23   | -0.06 | 149  | 0.37  | -8.80 | -0.21 | 0.79  | 3.95   | -0.06 |
| 145   | 164  | 4.43  | 7.99  | 5.81   | -0.34  | -1.71   | -0.05 | 361  | 1.18  | -8.24 | 17.64 | 0.10  | 0.52   | -0.05 |
|       | 11   | 4.43  | 7.99  | -9.54  | 0.46   | 2.29    | 0.03  | 266  | 1.18  | -8.24 | 2.29  | -0.07 | -0.35  | 0.03  |
| 146   | 181  | -0.06 | -0.01 | 4.98   | -0.05  | -0.26   | -0.32 | 362  | -0.05 | 0.04  | 5.16  | 0.00  | 0.02   | -0.32 |
|       | 13   | -0.06 | -0.01 | 5.57   | 0.59   | 2.97    | 0.30  | 277  | -0.05 | 0.04  | 5.76  | 0.13  | 0.67   | 0.30  |
| 147   | 167  | 4.39  | 7.94  | 6.32   | 0.43   | 2.13    | 0.05  | 363  | 1.17  | -8.18 | 18.13 | -0.12 | -0.62  | 0.05  |
|       | 12   | 4.39  | 7.94  | -8.87  | -0.56  | -2.80   | -0.07 | 280  | 1.17  | -8.18 | 2.94  | 0.12  | 0.61   | -0.07 |
| 148   | 183  | -0.06 | -0.04 | 5.48   | 0.06   | 0.28    | 0.25  | 364  | -0.05 | 0.03  | 5.68  | -0.03 | -0.17  | 0.25  |
|       | 17   | -0.06 | -0.04 | 6.05   | -0.53  | -2.67   | -0.28 | 282  | -0.05 | 0.03  | 6.25  | -0.10 | -0.50  | -0.28 |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22    | M12   | Nodo | S11   | S22   | S12   | M11    | M22    | M12   |
|-------|------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|--------|--------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq  | N/cmq |
| 149   | 182  | -0.28 | -0.54 | 1.08  | -0.06 | -0.31  | 0.19  | 365  | -0.10 | 0.34  | 1.46  | 0.01   | 0.04   | 0.19  |
|       | 16   | -0.28 | -0.54 | 1.61  | -2.36 | -11.78 | -0.21 | 42   | -0.10 | 0.34  | 1.99  | -2.01  | -10.05 | -0.21 |
| 150   | 185  | -0.01 | -0.11 | -0.12 | 0.00  | 0.00   | -0.03 | 368  | -0.01 | -0.08 | -0.34 | 0.00   | -0.01  | -0.03 |
|       | 15   | -0.01 | -0.11 | -0.10 | -1.87 | -9.36  | 0.01  | 63   | -0.01 | -0.08 | -0.32 | -1.92  | -9.58  | 0.01  |
| 151   | 217  | 0.06  | 0.07  | 0.10  | 1.69  | 0.85   | 1.05  | 218  | 0.04  | -0.03 | -0.20 | 1.87   | 0.92   | -0.14 |
|       | 213  | 0.62  | 0.18  | 0.13  | 2.72  | 0.13   | 1.16  | 214  | 0.60  | 0.08  | -0.17 | 3.53   | 0.03   | -0.04 |
| 152   | 218  | 0.00  | -0.05 | 0.20  | 1.96  | 0.94   | 0.18  | 219  | 0.02  | 0.03  | -0.07 | 0.81   | 1.32   | -1.27 |
|       | 214  | 0.60  | 0.07  | 0.14  | 3.41  | 0.00   | -0.40 | 215  | 0.62  | 0.15  | -0.13 | 2.67   | 0.56   | -1.85 |
| 153   | 219  | 0.28  | 0.07  | 0.11  | 0.20  | 1.20   | -2.04 | 220  | 0.05  | -1.08 | 0.09  | -1.14  | 3.44   | -0.43 |
|       | 215  | 0.16  | 0.05  | 0.57  | 4.10  | 0.85   | -2.71 | 2    | -0.07 | -1.10 | 0.55  | -10.44 | -3.04  | -1.11 |
| 154   | 3    | -0.07 | 0.06  | 0.05  | -1.09 | -1.91  | 0.80  | 221  | -0.08 | 0.01  | -0.01 | 0.23   | 0.02   | 1.17  |
|       | 216  | 0.20  | 0.11  | -0.19 | -2.27 | 1.36   | 0.85  | 217  | 0.19  | 0.07  | -0.25 | 1.17   | 0.26   | 1.22  |
| 155   | 221  | -0.16 | -0.02 | 0.11  | 0.50  | 0.08   | 1.04  | 222  | -0.15 | 0.06  | -0.01 | 0.35   | -0.46  | 0.14  |
|       | 217  | 0.09  | 0.03  | -0.07 | 1.59  | 0.34   | 1.01  | 218  | 0.11  | 0.11  | -0.19 | 1.89   | 0.99   | 0.11  |
| 156   | 222  | -0.21 | 0.07  | 0.14  | 0.41  | -0.45  | 0.33  | 223  | -0.26 | -0.15 | 0.04  | 0.05   | 0.20   | -0.39 |
|       | 218  | 0.05  | 0.12  | 0.21  | 1.97  | 1.01   | -0.21 | 219  | 0.01  | -0.10 | 0.10  | 0.80   | 1.28   | -0.93 |
| 157   | 223  | -0.25 | -0.13 | 0.21  | -0.05 | 0.18   | -0.43 | 4    | -0.29 | -0.32 | -0.04 | -0.52  | -1.20  | 0.17  |
|       | 219  | 0.24  | -0.03 | 0.28  | 0.20  | 1.16   | -1.00 | 220  | 0.20  | -0.22 | 0.02  | -1.13  | 3.50   | -0.40 |
| 158   | 227  | 0.02  | 0.02  | 0.18  | 0.79  | 1.30   | 1.26  | 228  | 0.00  | -0.05 | -0.15 | 1.86   | 0.89   | -0.17 |
|       | 224  | 0.63  | 0.14  | 0.15  | 2.64  | 0.56   | 1.83  | 225  | 0.62  | 0.07  | -0.17 | 3.29   | 0.00   | 0.40  |
| 159   | 228  | 0.02  | -0.03 | 0.27  | 1.78  | 0.87   | 0.15  | 229  | 0.05  | 0.07  | -0.04 | 1.57   | 0.82   | -1.03 |
|       | 225  | 0.50  | 0.06  | 0.16  | 3.41  | 0.03   | 0.05  | 226  | 0.52  | 0.16  | -0.15 | 2.59   | 0.10   | -1.13 |
| 160   | 229  | 0.41  | -0.11 | 0.12  | 1.16  | 0.74   | -1.73 | 230  | 0.36  | -0.35 | -0.34 | -2.65  | -1.67  | -0.40 |
|       | 226  | -0.08 | -0.21 | 0.77  | 3.72  | 0.33   | -1.48 | 5    | -0.12 | -0.45 | 0.31  | -8.51  | -1.04  | -0.15 |
| 161   | 4    | -0.29 | -0.33 | 0.12  | -0.50 | -1.20  | -0.19 | 231  | -0.24 | -0.11 | -0.16 | -0.07  | 0.16   | 0.42  |
|       | 220  | 0.18  | -0.23 | -0.01 | -1.16 | 3.49   | 0.39  | 227  | 0.22  | -0.02 | -0.29 | 0.19   | 1.14   | 1.00  |
| 162   | 231  | -0.26 | -0.13 | 0.03  | 0.03  | 0.18   | 0.37  | 232  | -0.22 | 0.06  | -0.11 | 0.36   | -0.50  | -0.33 |
|       | 227  | 0.01  | -0.07 | -0.05 | 0.78  | 1.26   | 0.92  | 228  | 0.05  | 0.11  | -0.19 | 1.88   | 0.97   | 0.22  |
| 163   | 232  | -0.14 | 0.06  | 0.07  | 0.30  | -0.51  | -0.13 | 233  | -0.16 | -0.05 | -0.09 | 0.41   | 0.02   | -1.00 |
|       | 228  | 0.10  | 0.10  | 0.23  | 1.79  | 0.95   | -0.10 | 229  | 0.08  | 0.00  | 0.07  | 1.47   | 0.31   | -0.98 |
| 164   | 233  | -0.08 | -0.01 | 0.04  | 0.15  | -0.03  | -1.11 | 6    | -0.06 | 0.08  | -0.05 | -0.97  | -1.90  | -0.77 |
|       | 229  | 0.18  | 0.05  | 0.23  | 1.06  | 0.23   | -1.18 | 230  | 0.20  | 0.13  | 0.14  | -2.04  | 1.41   | -0.84 |
| 165   | 235  | -0.49 | 0.01  | 0.01  | -0.35 | -1.19  | 0.10  | 236  | -0.48 | 0.05  | -0.16 | -0.29  | -1.55  | -0.26 |
|       | 231  | -0.23 | 0.06  | -0.02 | -0.08 | -0.38  | 0.20  | 232  | -0.23 | 0.10  | -0.19 | 0.40   | -0.29  | -0.17 |



TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22   | M12   | Nodo | S11   | S22   | S12   | M11    | M22   | M12   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|--------|-------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq | N/cmq |
| 166   | 236  | -0.35 | 0.05  | -0.03 | -0.13 | -1.52 | -0.15 | 237  | -0.35 | 0.07  | -0.09 | -0.32  | -0.58 | -0.71 |
|       | 232  | -0.16 | 0.09  | -0.02 | 0.35  | -0.30 | -0.27 | 233  | -0.15 | 0.11  | -0.08 | 0.24   | -0.84 | -0.83 |
| 167   | 237  | -0.13 | 0.05  | -0.10 | -0.16 | -0.55 | -0.65 | 238  | -0.10 | 0.19  | 0.01  | -0.20  | -1.51 | -0.33 |
|       | 233  | -0.04 | 0.07  | 0.05  | -0.02 | -0.89 | -1.18 | 6    | -0.01 | 0.21  | 0.15  | -0.18  | 2.09  | -0.86 |
| 168   | 7    | -0.83 | 0.11  | 0.14  | -0.61 | -2.39 | -0.03 | 239  | -0.83 | 0.12  | -0.20 | -0.48  | -2.11 | -0.04 |
|       | 234  | -0.49 | 0.18  | 0.10  | -0.22 | -1.13 | -0.05 | 235  | -0.49 | 0.19  | -0.24 | -0.44  | -1.32 | -0.07 |
| 169   | 239  | -0.81 | 0.12  | 0.02  | -0.72 | -2.16 | -0.03 | 240  | -0.81 | 0.12  | -0.22 | -0.28  | -1.82 | -0.11 |
|       | 235  | -0.46 | 0.19  | -0.05 | -0.37 | -1.30 | -0.07 | 236  | -0.46 | 0.19  | -0.30 | -0.25  | -1.36 | -0.15 |
| 170   | 240  | -0.63 | 0.13  | -0.12 | -0.79 | -1.92 | -0.07 | 241  | -0.63 | 0.10  | -0.19 | 0.11   | -0.76 | -0.15 |
|       | 236  | -0.32 | 0.19  | -0.17 | -0.09 | -1.33 | -0.36 | 237  | -0.33 | 0.16  | -0.24 | -0.45  | -1.25 | -0.44 |
| 171   | 241  | -0.22 | 0.16  | -0.30 | -0.72 | -0.92 | -0.01 | 8    | -0.24 | 0.06  | -0.01 | 0.46   | -0.77 | 0.01  |
|       | 237  | -0.12 | 0.18  | -0.25 | -0.30 | -1.22 | -0.57 | 238  | -0.14 | 0.08  | 0.05  | 0.34   | 1.17  | -0.55 |
| 172   | 243  | -0.36 | 0.08  | 0.11  | -0.29 | -0.57 | 0.76  | 244  | -0.36 | 0.06  | 0.08  | -0.10  | -1.53 | 0.15  |
|       | 221  | -0.16 | 0.12  | 0.06  | 0.33  | -0.78 | 0.88  | 222  | -0.17 | 0.09  | 0.03  | 0.40   | -0.25 | 0.27  |
| 173   | 244  | -0.49 | 0.06  | 0.20  | -0.28 | -1.56 | 0.26  | 245  | -0.50 | 0.01  | 0.05  | -0.34  | -1.20 | -0.13 |
|       | 222  | -0.22 | 0.11  | 0.19  | 0.46  | -0.24 | 0.17  | 223  | -0.23 | 0.06  | 0.04  | -0.06  | -0.36 | -0.22 |
| 174   | 245  | -0.52 | 0.00  | 0.22  | -0.43 | -1.21 | 0.04  | 234  | -0.53 | -0.06 | -0.07 | -0.25  | -1.29 | 0.17  |
|       | 223  | -0.21 | 0.06  | 0.21  | -0.16 | -0.38 | -0.40 | 4    | -0.22 | 0.01  | -0.08 | 0.02   | 1.46  | -0.27 |
| 175   | 9    | -0.26 | 0.05  | 0.00  | 0.49  | -0.79 | 0.01  | 246  | -0.24 | 0.18  | 0.33  | -0.81  | -1.13 | 0.02  |
|       | 242  | -0.15 | 0.08  | -0.09 | 0.29  | 1.17  | 0.61  | 243  | -0.12 | 0.20  | 0.24  | -0.26  | -1.20 | 0.63  |
| 176   | 246  | -0.66 | 0.10  | 0.20  | 0.14  | -0.94 | 0.18  | 247  | -0.65 | 0.13  | 0.16  | -0.89  | -2.12 | 0.07  |
|       | 243  | -0.34 | 0.17  | 0.21  | -0.43 | -1.23 | 0.48  | 244  | -0.33 | 0.20  | 0.17  | -0.07  | -1.34 | 0.37  |
| 177   | 247  | -0.83 | 0.13  | 0.24  | -0.25 | -1.99 | 0.12  | 248  | -0.83 | 0.12  | 0.02  | -0.80  | -2.27 | 0.03  |
|       | 244  | -0.46 | 0.20  | 0.29  | -0.24 | -1.38 | 0.14  | 245  | -0.46 | 0.19  | 0.07  | -0.36  | -1.31 | 0.05  |
| 178   | 248  | -0.83 | 0.13  | 0.23  | -0.45 | -2.20 | 0.04  | 7    | -0.83 | 0.11  | -0.11 | -0.66  | -2.39 | 0.03  |
|       | 245  | -0.49 | 0.19  | 0.24  | -0.45 | -1.33 | 0.04  | 234  | -0.49 | 0.18  | -0.09 | -0.22  | -1.13 | 0.03  |
| 179   | 254  | 0.23  | -0.07 | -0.39 | 2.73  | 2.16  | 1.64  | 255  | 0.25  | 0.03  | 0.20  | 1.82   | 1.78  | -1.73 |
|       | 249  | 0.24  | -0.07 | -0.38 | 3.77  | -0.10 | 1.54  | 250  | 0.26  | 0.03  | 0.21  | 4.46   | 0.70  | -1.84 |
| 180   | 255  | 0.08  | -0.51 | 0.19  | 1.76  | 1.77  | -3.04 | 256  | 0.45  | 1.35  | -0.10 | -2.43  | 3.64  | -1.03 |
|       | 250  | 0.66  | -0.40 | -0.46 | 5.29  | 0.86  | -3.48 | 2    | 1.04  | 1.47  | -0.75 | -10.04 | -2.95 | -1.47 |
| 181   | 256  | 0.44  | 1.30  | 0.03  | -2.44 | 3.64  | 1.10  | 257  | 0.08  | -0.52 | -0.22 | 1.78   | 1.76  | 3.02  |
|       | 2    | 0.76  | 1.36  | 0.63  | -9.88 | -2.92 | 1.53  | 251  | 0.40  | -0.45 | 0.37  | 5.25   | 0.86  | 3.46  |
| 182   | 257  | 0.24  | 0.05  | -0.24 | 1.83  | 1.77  | 1.74  | 258  | 0.21  | -0.10 | 0.33  | 2.73   | 2.19  | -1.64 |
|       | 251  | 0.24  | 0.05  | -0.20 | 4.47  | 0.70  | 1.85  | 252  | 0.21  | -0.10 | 0.37  | 3.77   | -0.12 | -1.54 |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 183   | 258  | -0.27             | 0.01              | 0.38              | 2.04              | 2.05              | -2.86             | 259  | -0.18             | 0.48              | 0.81              | -2.53             | -2.16             | -0.70             |
|       | 252  | 0.31              | 0.13              | -0.91             | 5.23              | 0.17              | -2.54             | 5    | 0.40              | 0.60              | -0.48             | -8.61             | -0.76             | -0.37             |
| 184   | 11   | 0.00              | 0.46              | -0.55             | -0.52             | -2.59             | 1.78              | 260  | -0.09             | -0.01             | -0.87             | 0.16              | 0.82              | 2.19              |
|       | 253  | -0.12             | 0.43              | 0.30              | -1.69             | 2.40              | 1.56              | 254  | -0.21             | -0.04             | -0.02             | 1.82              | 0.83              | 1.96              |
| 185   | 260  | -0.09             | -0.06             | 0.05              | 0.16              | 0.82              | 1.43              | 261  | -0.08             | -0.02             | -0.44             | -0.21             | -1.04             | -1.50             |
|       | 254  | 0.28              | 0.01              | 0.04              | 2.50              | 0.97              | 1.51              | 255  | 0.29              | 0.06              | -0.45             | 1.93              | 2.31              | -1.42             |
| 186   | 261  | -0.04             | -0.38             | 0.04              | -0.21             | -1.04             | -1.17             | 165  | 0.26              | 1.15              | 0.44              | 0.88              | 4.38              | 0.19              |
|       | 255  | 0.10              | -0.35             | -0.46             | 1.86              | 2.29              | -2.72             | 256  | 0.41              | 1.17              | -0.07             | -2.52             | 3.16              | -1.35             |
| 187   | 165  | 0.27              | 1.13              | -0.43             | 0.88              | 4.38              | -0.17             | 262  | -0.04             | -0.41             | -0.10             | -0.21             | -1.06             | 1.18              |
|       | 256  | 0.40              | 1.15              | 0.06              | -2.53             | 3.16              | 1.38              | 257  | 0.09              | -0.38             | 0.39              | 1.89              | 2.31              | 2.73              |
| 188   | 262  | -0.08             | -0.02             | 0.35              | -0.21             | -1.06             | 1.51              | 263  | -0.09             | -0.07             | -0.14             | 0.18              | 0.92              | -1.42             |
|       | 257  | 0.26              | 0.05              | 0.37              | 1.94              | 2.32              | 1.43              | 258  | 0.25              | 0.00              | -0.11             | 2.48              | 0.92              | -1.51             |
| 189   | 263  | -0.10             | 0.09              | 0.89              | 0.18              | 0.92              | -2.19             | 12   | -0.05             | 0.36              | 0.54              | -0.61             | -3.05             | -1.83             |
|       | 258  | -0.22             | 0.07              | -0.07             | 1.79              | 0.78              | -1.92             | 259  | -0.17             | 0.33              | -0.42             | -1.57             | 2.67              | -1.55             |
| 190   | 264  | 0.10              | 0.51              | 0.21              | -0.89             | -0.20             | 0.55              | 265  | -0.03             | -0.16             | 0.41              | 0.07              | -0.48             | 0.03              |
|       | 216  | 0.21              | 0.53              | -0.38             | 0.46              | -3.59             | -0.21             | 3    | 0.07              | -0.13             | -0.18             | -1.17             | -0.77             | -0.73             |
| 191   | 11   | -0.23             | 0.82              | 1.56              | 0.01              | 0.03              | 0.96              | 266  | -0.16             | 1.15              | -0.55             | 0.17              | 0.85              | -0.60             |
|       | 253  | -0.55             | 0.76              | 0.34              | 3.47              | -0.27             | 0.48              | 264  | -0.48             | 1.08              | -1.76             | -1.04             | -0.28             | -1.07             |
| 192   | 266  | 0.22              | -0.18             | 0.05              | 0.17              | 0.85              | -0.51             | 13   | 0.20              | -0.30             | 1.33              | -0.14             | -0.68             | -0.10             |
|       | 264  | 0.21              | -0.18             | -1.53             | -0.90             | -0.25             | -0.03             | 265  | 0.18              | -0.30             | -0.26             | 0.11              | -0.29             | 0.38              |
| 193   | 268  | -0.31             | -0.06             | 0.55              | -0.09             | -0.75             | 0.16              | 269  | -0.27             | 0.10              | 0.54              | -0.12             | -0.38             | 0.11              |
|       | 241  | -0.62             | -0.13             | 0.20              | -0.37             | 1.36              | -0.05             | 240  | -0.59             | 0.04              | 0.20              | 1.13              | 1.97              | -0.10             |
| 194   | 269  | -0.34             | 0.08              | 0.28              | 0.09              | -0.33             | 0.03              | 270  | -0.34             | 0.08              | 0.27              | -0.12             | -0.32             | 0.10              |
|       | 240  | -0.82             | -0.01             | 0.12              | -0.17             | 1.71              | -0.07             | 239  | -0.82             | -0.01             | 0.12              | 0.95              | 2.25              | -0.01             |
| 195   | 270  | -0.40             | 0.10              | 0.09              | 0.01              | -0.30             | -0.02             | 271  | -0.39             | 0.12              | 0.06              | -0.03             | -0.27             | 0.08              |
|       | 239  | -0.87             | 0.00              | 0.05              | 0.25              | 2.11              | -0.06             | 7    | -0.87             | 0.02              | 0.02              | 0.54              | 2.28              | 0.04              |
| 196   | 14   | -0.01             | -0.76             | 0.83              | -0.23             | -1.13             | 0.26              | 65   | 0.17              | 0.10              | 1.50              | 0.14              | 0.69              | 0.33              |
|       | 267  | -0.06             | -0.77             | -0.16             | -0.04             | -0.28             | -0.19             | 268  | 0.11              | 0.09              | 0.51              | -0.24             | -0.56             | -0.12             |
| 197   | 65   | 0.09              | 0.30              | 0.38              | 0.14              | 0.69              | 0.04              | 64   | 0.06              | 0.14              | 0.56              | 0.02              | 0.08              | 0.03              |
|       | 268  | -0.23             | 0.24              | 0.32              | -0.05             | -0.52             | 0.17              | 269  | -0.26             | 0.07              | 0.49              | -0.13             | -0.40             | 0.17              |
| 198   | 64   | 0.04              | 0.21              | 0.24              | 0.02              | 0.08              | 0.09              | 63   | 0.04              | 0.21              | 0.25              | -0.01             | -0.03             | 0.03              |
|       | 269  | -0.36             | 0.13              | 0.23              | 0.08              | -0.36             | 0.09              | 270  | -0.36             | 0.13              | 0.25              | -0.12             | -0.31             | 0.04              |
| 199   | 63   | 0.04              | 0.20              | 0.08              | -0.01             | -0.03             | 0.05              | 15   | 0.04              | 0.21              | 0.07              | -0.01             | -0.07             | -0.01             |
|       | 270  | -0.40             | 0.11              | 0.07              | 0.01              | -0.28             | 0.05              | 271  | -0.40             | 0.12              | 0.06              | -0.03             | -0.27             | 0.00              |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 200   | 272  | -0.34             | 0.09              | -0.30             | -0.15             | -0.34             | -0.07             | 273  | -0.34             | 0.10              | -0.28             | 0.11              | -0.36             | -0.01             |
|       | 248  | -0.83             | -0.01             | -0.14             | 1.13              | 2.35              | 0.02              | 247  | -0.82             | 0.00              | -0.12             | -0.29             | 1.82              | 0.08              |
| 201   | 273  | -0.27             | 0.12              | -0.56             | -0.14             | -0.41             | -0.08             | 274  | -0.30             | -0.04             | -0.55             | -0.11             | -0.79             | -0.15             |
|       | 247  | -0.60             | 0.05              | -0.20             | 1.28              | 2.13              | 0.13              | 246  | -0.63             | -0.11             | -0.19             | -0.44             | 1.47              | 0.06              |
| 202   | 274  | -0.04             | 0.05              | -0.76             | -0.32             | -0.83             | -0.04             | 275  | -0.08             | -0.16             | -0.59             | 0.26              | 1.19              | -0.27             |
|       | 246  | -0.15             | 0.03              | -0.30             | 1.05              | 1.76              | 0.02              | 9    | -0.19             | -0.18             | -0.13             | -0.57             | -0.69             | -0.21             |
| 203   | 15   | 0.04              | 0.21              | -0.08             | -0.01             | -0.07             | 0.00              | 44   | 0.04              | 0.21              | -0.08             | -0.03             | -0.13             | -0.05             |
|       | 271  | -0.40             | 0.12              | -0.08             | -0.06             | -0.28             | 0.02              | 272  | -0.40             | 0.12              | -0.08             | 0.04              | -0.28             | -0.03             |
| 204   | 44   | 0.04              | 0.21              | -0.27             | -0.03             | -0.13             | -0.03             | 43   | 0.04              | 0.21              | -0.23             | -0.01             | -0.07             | -0.10             |
|       | 272  | -0.36             | 0.14              | -0.28             | -0.14             | -0.32             | -0.01             | 273  | -0.36             | 0.13              | -0.23             | 0.10              | -0.40             | -0.08             |
| 205   | 43   | 0.07              | 0.13              | -0.59             | -0.01             | -0.07             | -0.06             | 42   | 0.11              | 0.34              | -0.36             | 0.06              | 0.31              | -0.05             |
|       | 273  | -0.26             | 0.06              | -0.52             | -0.15             | -0.45             | -0.14             | 274  | -0.22             | 0.27              | -0.28             | -0.05             | -0.50             | -0.14             |
| 206   | 42   | 0.19              | 0.12              | -1.60             | 0.06              | 0.31              | -0.24             | 16   | 0.02              | -0.74             | -0.88             | -0.16             | -0.79             | -0.16             |
|       | 274  | 0.13              | 0.11              | -0.49             | -0.27             | -0.54             | 0.06              | 275  | -0.04             | -0.75             | 0.23              | -0.06             | -0.44             | 0.14              |
| 207   | 276  | 0.03              | -0.10             | 0.33              | 0.03              | -0.56             | -0.06             | 275  | -0.04             | -0.45             | 0.60              | 0.06              | 0.72              | -0.07             |
|       | 242  | 0.16              | -0.07             | -0.26             | 1.08              | 0.54              | -0.33             | 9    | 0.08              | -0.43             | 0.00              | -0.98             | -0.58             | -0.35             |
| 208   | 13   | 0.00              | 0.26              | 0.02              | -0.14             | -0.68             | 0.38              | 277  | -0.13             | -0.37             | 0.45              | 0.08              | 0.40              | 0.34              |
|       | 265  | 0.19              | 0.30              | -0.48             | -0.52             | -0.41             | -0.19             | 276  | 0.06              | -0.33             | -0.05             | 0.55              | -0.04             | -0.23             |
| 209   | 277  | 0.40              | -0.72             | -0.55             | 0.08              | 0.40              | 0.20              | 16   | 0.52              | -0.14             | 1.01              | 0.62              | 3.12              | 0.18              |
|       | 276  | 0.43              | -0.71             | -0.53             | 0.12              | -0.13             | -0.24             | 275  | 0.54              | -0.14             | 1.03              | -0.47             | -1.94             | -0.26             |
| 210   | 278  | 0.09              | 0.46              | 0.24              | 0.78              | 0.14              | -0.48             | 279  | -0.04             | -0.17             | 0.43              | -0.05             | 0.46              | -0.03             |
|       | 230  | 0.21              | 0.49              | -0.42             | -0.27             | 3.40              | 0.24              | 6    | 0.09              | -0.14             | -0.23             | 0.94              | 0.61              | 0.69              |
| 211   | 12   | -0.24             | 0.66              | 1.65              | 0.10              | 0.48              | -1.00             | 280  | -0.15             | 1.12              | -0.42             | -0.15             | -0.76             | 0.54              |
|       | 259  | -0.53             | 0.60              | 0.24              | -3.49             | 0.02              | -0.50             | 278  | -0.44             | 1.06              | -1.83             | 1.04              | 0.36              | 1.04              |
| 212   | 280  | 0.23              | -0.18             | 0.05              | -0.15             | -0.76             | 0.46              | 17   | 0.21              | -0.30             | 1.35              | 0.13              | 0.67              | 0.09              |
|       | 278  | 0.22              | -0.18             | -1.57             | 0.81              | 0.32              | 0.04              | 279  | 0.19              | -0.31             | -0.28             | -0.10             | 0.25              | -0.33             |
| 213   | 281  | 0.02              | -0.11             | 0.30              | -0.06             | 0.51              | 0.09              | 267  | -0.05             | -0.47             | 0.59              | -0.05             | -0.64             | 0.09              |
|       | 238  | 0.16              | -0.08             | -0.30             | -0.97             | -0.54             | 0.30              | 8    | 0.09              | -0.44             | -0.01             | 0.88              | 0.52              | 0.30              |
| 214   | 17   | -0.01             | 0.28              | -0.02             | 0.13              | 0.67              | -0.36             | 282  | -0.15             | -0.40             | 0.42              | -0.08             | -0.42             | -0.31             |
|       | 279  | 0.20              | 0.32              | -0.53             | 0.43              | 0.35              | 0.19              | 281  | 0.06              | -0.36             | -0.09             | -0.50             | 0.07              | 0.24              |
| 215   | 282  | 0.45              | -0.79             | -0.67             | -0.08             | -0.42             | -0.15             | 14   | 0.58              | -0.15             | 1.06              | -0.55             | -2.73             | -0.12             |
|       | 281  | 0.46              | -0.79             | -0.61             | -0.13             | 0.14              | 0.22              | 267  | 0.59              | -0.15             | 1.12              | 0.42              | 1.71              | 0.25              |
| 216   | 287  | 0.00              | 0.00              | 0.00              | 1.40              | 2.26              | -0.08             | 288  | 0.00              | 0.00              | 0.00              | 1.95              | 2.21              | 0.25              |
|       | 283  | 0.00              | 0.00              | 0.00              | 0.60              | -0.53             | -1.00             | 284  | 0.00              | 0.00              | 0.00              | 0.27              | 0.66              | -0.66             |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 217   | 288  | 0.00              | 0.00              | 0.00              | 1.76              | 2.17              | -0.27             | 289  | 0.00              | 0.00              | 0.00              | 0.95              | 2.04              | 0.08              |
|       | 284  | 0.00              | 0.00              | 0.00              | 0.36              | 0.68              | -0.02             | 285  | 0.00              | 0.00              | 0.00              | 0.03              | 0.27              | 0.33              |
| 218   | 289  | 0.00              | 0.00              | 0.00              | 1.32              | 2.12              | -1.22             | 25   | 0.00              | 0.00              | 0.00              | 0.46              | 5.11              | -1.19             |
|       | 285  | 0.00              | 0.00              | 0.00              | -1.11             | 0.05              | 1.86              | 19   | 0.00              | 0.00              | 0.00              | -0.02             | -6.60             | 1.89              |
| 219   | 290  | 0.00              | 0.00              | 0.00              | -4.36             | -19.57            | 1.05              | 291  | 0.00              | 0.00              | 0.00              | 0.32              | 1.20              | 1.69              |
|       | 286  | 0.00              | 0.00              | 0.00              | -0.53             | 18.30             | -0.22             | 287  | 0.00              | 0.00              | 0.00              | 0.81              | 0.27              | 0.42              |
| 220   | 291  | 0.00              | 0.00              | 0.00              | 0.32              | 1.20              | 1.26              | 292  | 0.00              | 0.00              | 0.00              | 0.13              | -0.06             | 0.80              |
|       | 287  | 0.00              | 0.00              | 0.00              | 1.01              | 0.31              | 0.58              | 288  | 0.00              | 0.00              | 0.00              | 2.02              | 2.56              | 0.11              |
| 221   | 292  | 0.00              | 0.00              | 0.00              | 0.13              | -0.06             | 0.63              | 293  | 0.00              | 0.00              | 0.00              | -0.01             | -0.06             | 0.27              |
|       | 288  | 0.00              | 0.00              | 0.00              | 1.83              | 2.52              | 0.20              | 289  | 0.00              | 0.00              | 0.00              | 1.11              | 2.87              | -0.16             |
| 222   | 293  | 0.00              | 0.00              | 0.00              | 0.05              | -0.05             | -0.09             | 29   | 0.00              | 0.00              | 0.00              | -0.21             | 0.04              | -0.19             |
|       | 289  | 0.00              | 0.00              | 0.00              | 1.48              | 2.94              | 0.16              | 25   | 0.00              | 0.00              | 0.00              | -0.13             | 2.19              | 0.06              |
| 223   | 294  | 0.00              | 0.00              | 0.00              | -0.27             | -18.59            | -0.06             | 295  | 0.00              | 0.00              | 0.00              | -0.43             | 0.14              | 0.64              |
|       | 290  | 0.00              | 0.00              | 0.00              | 3.45              | 19.53             | 0.94              | 291  | 0.00              | 0.00              | 0.00              | -0.15             | -1.15             | 1.64              |
| 224   | 295  | 0.00              | 0.00              | 0.00              | -0.81             | 0.07              | 0.75              | 296  | 0.00              | 0.00              | 0.00              | -1.62             | -2.00             | 0.28              |
|       | 291  | 0.00              | 0.00              | 0.00              | -0.15             | -1.15             | 1.26              | 292  | 0.00              | 0.00              | 0.00              | 0.18              | 0.21              | 0.78              |
| 225   | 296  | 0.00              | 0.00              | 0.00              | -1.55             | -1.99             | 0.34              | 297  | 0.00              | 0.00              | 0.00              | -0.85             | -2.28             | -0.02             |
|       | 292  | 0.00              | 0.00              | 0.00              | 0.19              | 0.21              | 0.63              | 293  | 0.00              | 0.00              | 0.00              | 0.05              | 0.27              | 0.28              |
| 226   | 297  | 0.00              | 0.00              | 0.00              | -1.58             | -2.43             | 0.22              | 33   | 0.00              | 0.00              | 0.00              | 0.37              | -1.89             | 0.18              |
|       | 293  | 0.00              | 0.00              | 0.00              | 0.12              | 0.28              | -0.04             | 29   | 0.00              | 0.00              | 0.00              | -0.14             | 0.39              | -0.08             |
| 227   | 20   | 0.00              | 0.00              | 0.00              | 4.19              | -12.10            | -1.38             | 298  | 0.00              | 0.00              | 0.00              | -4.73             | -0.90             | -1.58             |
|       | 294  | 0.00              | 0.00              | 0.00              | 6.72              | 16.32             | 1.66              | 295  | 0.00              | 0.00              | 0.00              | -0.82             | -1.82             | 1.46              |
| 228   | 298  | 0.00              | 0.00              | 0.00              | -0.47             | -0.05             | -0.86             | 299  | 0.00              | 0.00              | 0.00              | -0.56             | -1.68             | -0.58             |
|       | 295  | 0.00              | 0.00              | 0.00              | -1.20             | -1.89             | 0.20              | 296  | 0.00              | 0.00              | 0.00              | -1.55             | -1.62             | 0.49              |
| 229   | 299  | 0.00              | 0.00              | 0.00              | -0.24             | -1.62             | 0.09              | 300  | 0.00              | 0.00              | 0.00              | -0.44             | -1.57             | 0.40              |
|       | 296  | 0.00              | 0.00              | 0.00              | -1.48             | -1.61             | -0.07             | 297  | 0.00              | 0.00              | 0.00              | -0.66             | -1.35             | 0.25              |
| 230   | 300  | 0.00              | 0.00              | 0.00              | 1.99              | -1.09             | 2.21              | 21   | 0.00              | 0.00              | 0.00              | -2.00             | 5.12              | 2.11              |
|       | 297  | 0.00              | 0.00              | 0.00              | -1.39             | -1.50             | -1.14             | 33   | 0.00              | 0.00              | 0.00              | -0.09             | -4.22             | -1.24             |
| 231   | 301  | -0.24             | -0.03             | -3.38             | 5.84              | 29.18             | -1.62             | 302  | -0.08             | 0.81              | -3.21             | -2.12             | -10.60            | -1.62             |
|       | 283  | -0.24             | -0.03             | -2.64             | -4.40             | -22.00            | 1.60              | 284  | -0.08             | 0.81              | -2.47             | 0.86              | 4.28              | 1.60              |
| 232   | 302  | 0.03              | 0.19              | -1.77             | -2.12             | -10.60            | 1.68              | 303  | 0.08              | 0.42              | -1.54             | 4.09              | 20.43             | 1.68              |
|       | 284  | 0.03              | 0.19              | -1.92             | 0.86              | 4.28              | -1.70             | 285  | 0.08              | 0.42              | -1.69             | -2.52             | -12.59            | -1.70             |
| 233   | 303  | 0.14              | 0.06              | -0.94             | 4.09              | 20.43             | -9.02             | 163  | 0.32              | 0.98              | -0.18             | -17.88            | -89.39            | -9.02             |
|       | 285  | 0.14              | 0.06              | -0.78             | -2.52             | -12.59            | 9.00              | 19   | 0.32              | 0.98              | -0.02             | 4.35              | 21.75             | 9.00              |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 234   | 304  | -0.09             | 0.12              | -0.09             | 3.86              | 19.28             | -1.46             | 305  | -0.03             | 0.43              | 1.02              | -1.44             | -7.18             | -1.46             |
|       | 22   | -0.09             | 0.12              | 0.00              | -2.99             | -14.97            | 1.44              | 23   | -0.03             | 0.43              | 1.11              | 0.01              | 0.04              | 1.44              |
| 235   | 305  | -0.01             | 0.35              | 1.37              | -1.44             | -7.18             | 1.04              | 306  | -0.01             | 0.35              | 2.15              | 3.03              | 15.16             | 1.04              |
|       | 23   | -0.01             | 0.35              | 0.77              | 0.01              | 0.04              | -1.06             | 24   | -0.01             | 0.35              | 1.55              | -2.80             | -14.02            | -1.06             |
| 236   | 306  | 0.06              | 0.03              | 3.20              | 3.03              | 15.16             | -5.53             | 164  | 0.13              | 0.37              | 1.99              | -13.37            | -66.85            | -5.53             |
|       | 24   | 0.06              | 0.03              | 2.42              | -2.80             | -14.02            | 5.51              | 11   | 0.13              | 0.37              | 1.22              | 4.90              | 24.52             | 5.51              |
| 237   | 310  | 0.01              | 0.12              | -0.21             | 3.30              | 16.49             | -1.23             | 311  | -0.04             | -0.12             | -0.33             | -1.52             | -7.62             | -1.23             |
|       | 307  | 0.01              | 0.12              | -0.10             | -1.56             | -7.78             | 1.20              | 308  | -0.04             | -0.12             | -0.23             | 0.71              | 3.57              | 1.20              |
| 238   | 311  | -0.05             | 0.14              | 0.02              | -1.52             | -7.62             | 1.60              | 312  | -0.08             | -0.04             | -0.10             | 3.59              | 17.97             | 1.60              |
|       | 308  | -0.05             | 0.14              | -0.34             | 0.71              | 3.57              | -1.62             | 309  | -0.08             | -0.04             | -0.46             | -1.02             | -5.08             | -1.62             |
| 239   | 312  | -0.06             | -0.69             | 0.24              | 3.59              | 17.97             | -7.39             | 166  | 0.36              | 1.43              | 0.12              | -15.08            | -75.42            | -7.39             |
|       | 309  | -0.06             | -0.69             | -0.56             | -1.02             | -5.08             | 7.37              | 165  | 0.36              | 1.43              | -0.68             | 2.16              | 10.80             | 7.37              |
| 240   | 316  | -0.08             | -0.04             | 0.23              | 3.59              | 17.94             | -1.62             | 317  | -0.05             | 0.14              | 0.05              | -1.50             | -7.51             | -1.62             |
|       | 313  | -0.08             | -0.04             | 0.59              | -1.01             | -5.06             | 1.60              | 314  | -0.05             | 0.14              | 0.41              | 0.70              | 3.48              | 1.60              |
| 241   | 317  | -0.04             | -0.12             | 0.46              | -1.50             | -7.51             | 1.19              | 318  | 0.01              | 0.12              | 0.29              | 3.21              | 16.04             | 1.19              |
|       | 314  | -0.04             | -0.12             | 0.35              | 0.70              | 3.48              | -1.22             | 315  | 0.01              | 0.12              | 0.18              | -1.48             | -7.42             | -1.22             |
| 242   | 318  | 0.02              | -0.21             | 0.35              | 3.21              | 16.04             | -4.82             | 167  | 0.11              | 0.24              | 0.17              | -13.01            | -65.03            | -4.82             |
|       | 315  | 0.02              | -0.21             | 0.46              | -1.48             | -7.42             | 4.80              | 12   | 0.11              | 0.24              | 0.29              | 4.62              | 23.11             | 4.80              |
| 243   | 319  | 0.00              | 0.36              | -2.83             | 3.11              | 15.55             | -1.00             | 320  | -0.02             | 0.27              | -2.29             | -1.49             | -7.47             | -1.00             |
|       | 82   | 0.00              | 0.36              | -2.12             | -2.79             | -13.94            | 0.98              | 83   | -0.02             | 0.27              | -1.58             | 0.03              | 0.13              | 0.98              |
| 244   | 320  | -0.03             | 0.33              | -1.81             | -1.49             | -7.47             | 1.34              | 321  | -0.07             | 0.13              | -0.82             | 3.77              | 18.85             | 1.34              |
|       | 83   | -0.03             | 0.33              | -1.82             | 0.03              | 0.13              | -1.36             | 84   | -0.07             | 0.13              | -0.83             | -2.80             | -14.01            | -1.36             |
| 245   | 321  | -0.02             | -0.29             | -0.87             | 3.77              | 18.85             | -7.84             | 168  | 0.29              | 1.25              | 0.16              | -16.47            | -82.37            | -7.84             |
|       | 84   | -0.02             | -0.29             | -1.51             | -2.80             | -14.01            | 7.82              | 85   | 0.29              | 1.25              | -0.48             | 3.36              | 16.78             | 7.82              |
| 246   | 322  | -0.01             | 0.19              | -0.49             | 3.87              | 19.33             | -1.54             | 323  | -0.01             | 0.17              | -0.68             | -1.68             | -8.42             | -1.54             |
|       | 102  | -0.01             | 0.19              | -0.19             | -2.44             | -12.20            | 1.52              | 103  | -0.01             | 0.17              | -0.37             | 0.21              | 1.04              | 1.52              |
| 247   | 323  | -0.01             | 0.12              | 0.17              | -1.68             | -8.42             | 1.50              | 324  | 0.00              | 0.16              | 0.07              | 3.87              | 19.37             | 1.50              |
|       | 103  | -0.01             | 0.12              | 0.11              | 0.21              | 1.04              | -1.53             | 104  | 0.00              | 0.16              | 0.01              | -2.47             | -12.35            | -1.53             |
| 248   | 324  | 0.01              | 0.03              | 0.80              | 3.87              | 19.37             | -7.84             | 169  | 0.18              | 0.85              | 1.32              | -16.54            | -82.70            | -7.84             |
|       | 104  | 0.01              | 0.03              | 0.46              | -2.47             | -12.35            | 7.82              | 105  | 0.18              | 0.85              | 0.99              | 3.07              | 15.35             | 7.82              |
| 249   | 325  | 0.02              | 0.17              | 0.77              | 3.75              | 18.76             | -1.49             | 326  | 0.02              | 0.13              | 0.69              | -1.61             | -8.04             | -1.49             |
|       | 122  | 0.02              | 0.17              | 0.80              | -2.54             | -12.71            | 1.47              | 123  | 0.02              | 0.13              | 0.72              | 0.23              | 1.15              | 1.47              |
| 250   | 326  | 0.01              | 0.19              | 1.40              | -1.61             | -8.04             | 1.50              | 327  | -0.01             | 0.11              | 1.24              | 3.79              | 18.95             | 1.50              |
|       | 123  | 0.01              | 0.19              | 1.27              | 0.23              | 1.15              | -1.53             | 124  | -0.01             | 0.11              | 1.11              | -2.52             | -12.59            | -1.53             |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11   | S22   | S12   | M11   | M22    | M12   | Nodo | S11   | S22   | S12   | M11    | M22     | M12   |
|-------|------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|--------|---------|-------|
| Nro   | Nro  | N/cmq | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq | N.ro | N/cmq | N/cmq | N/cmq | N/cmq  | N/cmq   | N/cmq |
| 251   | 327  | -0.02 | 0.19  | 2.33  | 3.79  | 18.95  | -8.44 | 170  | 0.13  | 0.93  | 2.72  | -16.73 | -83.64  | -8.44 |
|       | 124  | -0.02 | 0.19  | 1.61  | -2.52 | -12.59 | 8.42  | 125  | 0.13  | 0.93  | 2.01  | 3.24   | 16.22   | 8.42  |
| 252   | 328  | 0.08  | 0.40  | 2.74  | 3.99  | 19.93  | -1.60 | 329  | 0.01  | 0.05  | 3.05  | -2.14  | -10.72  | -1.60 |
|       | 142  | 0.08  | 0.40  | 2.59  | -2.47 | -12.37 | 1.58  | 143  | 0.01  | 0.05  | 2.89  | 0.72   | 3.58    | 1.58  |
| 253   | 329  | -0.05 | 0.73  | 4.44  | -2.14 | -10.72 | 1.50  | 330  | -0.19 | 0.05  | 4.39  | 5.79   | 28.93   | 1.50  |
|       | 143  | -0.05 | 0.73  | 3.44  | 0.72  | 3.58   | -1.52 | 144  | -0.19 | 0.05  | 3.40  | -4.41  | -22.07  | -1.52 |
| 254   | 330  | -0.12 | -0.66 | 7.33  | 5.79  | 28.93  | -6.59 | 171  | 0.37  | 1.78  | 4.11  | -24.17 | -120.84 | -6.59 |
|       | 144  | -0.12 | -0.66 | 4.79  | -4.41 | -22.07 | 6.57  | 145  | 0.37  | 1.78  | 1.56  | 13.37  | 66.84   | 6.57  |
| 255   | 331  | 0.26  | 0.13  | 3.98  | 5.85  | 29.25  | -1.65 | 332  | 0.08  | -0.79 | 4.03  | -2.12  | -10.59  | -1.65 |
|       | 298  | 0.26  | 0.13  | 3.15  | -4.47 | -22.37 | 1.63  | 299  | 0.08  | -0.79 | 3.19  | 0.74   | 3.72    | 1.63  |
| 256   | 332  | -0.05 | -0.04 | 2.82  | -2.12 | -10.59 | 1.64  | 333  | -0.11 | -0.36 | 2.61  | 4.06   | 20.28   | 1.64  |
|       | 299  | -0.05 | -0.04 | 2.68  | 0.74  | 3.72   | -1.66 | 300  | -0.11 | -0.36 | 2.47  | -2.66  | -13.30  | -1.66 |
| 257   | 333  | -0.12 | -0.27 | 2.59  | 4.06  | 20.28  | -9.20 | 173  | -0.16 | -0.46 | 1.16  | -17.77 | -88.86  | -9.20 |
|       | 300  | -0.12 | -0.27 | 1.98  | -2.66 | -13.30 | 9.18  | 21   | -0.16 | -0.46 | 0.55  | 3.78   | 18.90   | 9.18  |
| 258   | 334  | 0.00  | -0.10 | 1.19  | 3.83  | 19.13  | -1.53 | 335  | -0.01 | -0.16 | 1.53  | -1.53  | -7.65   | -1.53 |
|       | 37   | 0.00  | -0.10 | 1.11  | -2.72 | -13.62 | 1.51  | 38   | -0.01 | -0.16 | 1.45  | 0.24   | 1.19    | 1.51  |
| 259   | 335  | -0.03 | -0.08 | 0.84  | -1.53 | -7.65  | 1.35  | 336  | -0.06 | -0.19 | 1.07  | 3.55   | 17.77   | 1.35  |
|       | 38   | -0.03 | -0.08 | 0.77  | 0.24  | 1.19   | -1.37 | 39   | -0.06 | -0.19 | 1.00  | -2.71  | -13.53  | -1.37 |
| 260   | 336  | -0.06 | -0.17 | 0.61  | 3.55  | 17.77  | -9.13 | 174  | -0.14 | -0.55 | -0.06 | -16.43 | -82.15  | -9.13 |
|       | 39   | -0.06 | -0.17 | 0.43  | -2.71 | -13.53 | 9.11  | 41   | -0.14 | -0.55 | -0.23 | 2.92   | 14.58   | 9.11  |
| 261   | 337  | 0.02  | -0.05 | 0.53  | 3.96  | 19.78  | -1.63 | 338  | 0.00  | -0.11 | 0.55  | -1.69  | -8.44   | -1.63 |
|       | 59   | 0.02  | -0.05 | 0.43  | -2.27 | -11.35 | 1.61  | 60   | 0.00  | -0.11 | 0.45  | -0.03  | -0.14   | 1.61  |
| 262   | 338  | 0.00  | -0.10 | 0.06  | -1.69 | -8.44  | 1.53  | 339  | 0.01  | -0.07 | 0.09  | 3.68   | 18.38   | 1.53  |
|       | 60   | 0.00  | -0.10 | 0.20  | -0.03 | -0.14  | -1.55 | 61   | 0.01  | -0.07 | 0.23  | -2.15  | -10.75  | -1.55 |
| 263   | 339  | 0.00  | 0.16  | -0.28 | 3.68  | 18.38  | -6.87 | 175  | -0.18 | -0.76 | -0.64 | -15.17 | -75.86  | -6.87 |
|       | 61   | 0.00  | 0.16  | 0.01  | -2.15 | -10.75 | 6.85  | 62   | -0.18 | -0.76 | -0.35 | 2.29   | 11.46   | 6.85  |
| 264   | 340  | 0.02  | -0.03 | 0.01  | 3.67  | 18.34  | -1.57 | 341  | 0.02  | -0.06 | 0.18  | -1.66  | -8.30   | -1.57 |
|       | 78   | 0.02  | -0.03 | -0.14 | -2.18 | -10.89 | 1.54  | 79   | 0.02  | -0.06 | 0.03  | -0.12  | -0.58   | 1.54  |
| 265   | 341  | 0.02  | -0.06 | -0.30 | -1.66 | -8.30  | 1.55  | 342  | 0.02  | -0.04 | -0.14 | 3.84   | 19.20   | 1.55  |
|       | 79   | 0.02  | -0.06 | -0.16 | -0.12 | -0.58  | -1.58 | 80   | 0.02  | -0.04 | 0.00  | -2.33  | -11.64  | -1.58 |
| 266   | 342  | 0.01  | 0.21  | -0.49 | 3.84  | 19.20  | -6.96 | 176  | -0.18 | -0.76 | -0.74 | -15.91 | -79.56  | -6.96 |
|       | 80   | 0.01  | 0.21  | -0.16 | -2.33 | -11.64 | 6.94  | 81   | -0.18 | -0.76 | -0.42 | 2.82   | 14.12   | 6.94  |
| 267   | 343  | 0.03  | -0.03 | 0.23  | 3.68  | 18.40  | -1.24 | 344  | 0.00  | -0.16 | 0.03  | -1.62  | -8.10   | -1.24 |
|       | 98   | 0.03  | -0.03 | 0.07  | -2.96 | -14.78 | 1.22  | 99   | 0.00  | -0.16 | -0.14 | 0.13   | 0.64    | 1.22  |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 268   | 344  | 0.02              | -0.28             | -0.38             | -1.62             | -8.10             | 1.35              | 345  | 0.09              | 0.08              | -0.61             | 3.79              | 18.97             | 1.35              |
|       | 99   | 0.02              | -0.28             | -0.17             | 0.13              | 0.64              | -1.37             | 100  | 0.09              | 0.08              | -0.39             | -2.84             | -14.21            | -1.37             |
| 269   | 345  | 0.06              | 0.32              | -1.09             | 3.79              | 18.97             | -7.91             | 177  | -0.24             | -1.21             | -1.22             | -16.47            | -82.34            | -7.91             |
|       | 100  | 0.06              | 0.32              | -0.13             | -2.84             | -14.21            | 7.89              | 101  | -0.24             | -1.21             | -0.26             | 3.20              | 16.02             | 7.89              |
| 270   | 346  | -0.01             | -0.18             | -0.41             | 3.86              | 19.32             | -1.53             | 347  | 0.01              | -0.06             | -0.10             | -1.68             | -8.42             | -1.53             |
|       | 118  | -0.01             | -0.18             | -0.62             | -2.55             | -12.77            | 1.50              | 119  | 0.01              | -0.06             | -0.31             | 0.11              | 0.57              | 1.50              |
| 271   | 347  | 0.02              | -0.09             | -0.87             | -1.68             | -8.42             | 1.52              | 348  | 0.01              | -0.10             | -0.58             | 3.87              | 19.36             | 1.52              |
|       | 119  | 0.02              | -0.09             | -0.77             | 0.11              | 0.57              | -1.54             | 120  | 0.01              | -0.10             | -0.49             | -2.54             | -12.71            | -1.54             |
| 272   | 348  | 0.01              | 0.01              | -1.39             | 3.87              | 19.36             | -7.83             | 178  | -0.17             | -0.85             | -1.70             | -16.53            | -82.66            | -7.83             |
|       | 120  | 0.01              | 0.01              | -0.94             | -2.54             | -12.71            | 7.81              | 121  | -0.17             | -0.85             | -1.25             | 3.01              | 15.06             | 7.81              |
| 273   | 349  | -0.03             | -0.16             | -1.02             | 3.75              | 18.74             | -1.48             | 350  | -0.02             | -0.10             | -0.90             | -1.61             | -8.04             | -1.48             |
|       | 138  | -0.03             | -0.16             | -1.03             | -2.58             | -12.92            | 1.46              | 139  | -0.02             | -0.10             | -0.91             | 0.19              | 0.97              | 1.46              |
| 274   | 350  | 0.00              | -0.18             | -1.59             | -1.61             | -8.04             | 1.51              | 351  | 0.01              | -0.09             | -1.37             | 3.79              | 18.95             | 1.51              |
|       | 139  | 0.00              | -0.18             | -1.45             | 0.19              | 0.97              | -1.53             | 140  | 0.01              | -0.09             | -1.23             | -2.54             | -12.72            | -1.53             |
| 275   | 351  | 0.03              | -0.18             | -2.48             | 3.79              | 18.95             | -8.44             | 179  | -0.12             | -0.93             | -2.80             | -16.73            | -83.63            | -8.44             |
|       | 140  | 0.03              | -0.18             | -1.74             | -2.54             | -12.72            | 8.42              | 141  | -0.12             | -0.93             | -2.05             | 3.22              | 16.12             | 8.42              |
| 276   | 352  | -0.08             | -0.40             | -2.79             | 3.98              | 19.92             | -1.60             | 353  | -0.01             | -0.04             | -3.08             | -2.15             | -10.73            | -1.60             |
|       | 158  | -0.08             | -0.40             | -2.63             | -2.49             | -12.43            | 1.58              | 159  | -0.01             | -0.04             | -2.92             | 0.71              | 3.54              | 1.58              |
| 277   | 353  | 0.05              | -0.73             | -4.46             | -2.15             | -10.73            | 1.51              | 354  | 0.19              | -0.04             | -4.40             | 5.79              | 28.96             | 1.51              |
|       | 159  | 0.05              | -0.73             | -3.47             | 0.71              | 3.54              | -1.53             | 160  | 0.19              | -0.04             | -3.41             | -4.42             | -22.11            | -1.53             |
| 278   | 354  | 0.12              | 0.66              | -7.35             | 5.79              | 28.96             | -6.60             | 180  | -0.36             | -1.78             | -4.11             | -24.20            | -120.99           | -6.60             |
|       | 160  | 0.12              | 0.66              | -4.80             | -4.42             | -22.11            | 6.57              | 161  | -0.36             | -1.78             | -1.56             | 13.39             | 66.93             | 6.57              |
| 279   | 355  | 2.35              | 8.60              | 3.51              | 0.14              | 0.68              | 0.16              | 356  | -0.81             | -7.17             | 7.95              | 0.00              | 0.00              | 0.16              |
|       | 286  | 2.35              | 8.60              | 3.25              | -0.77             | -3.85             | -0.18             | 290  | -0.81             | -7.17             | 7.69              | -0.07             | -0.33             | -0.18             |
| 280   | 356  | 0.82              | 7.20              | 8.08              | 0.00              | 0.02              | 0.18              | 357  | -2.33             | -8.53             | 3.68              | -0.14             | -0.71             | 0.18              |
|       | 290  | 0.82              | 7.20              | 7.82              | -0.07             | -0.36             | -0.20             | 294  | -2.33             | -8.53             | 3.43              | 0.70              | 3.49              | -0.20             |
| 281   | 357  | -0.36             | 8.95              | 22.43             | -0.15             | -0.74             | 0.00              | 172  | -3.29             | -5.70             | 10.14             | 0.57              | 2.85              | 0.00              |
|       | 294  | -0.36             | 8.95              | -1.17             | 0.70              | 3.52              | -0.02             | 20   | -3.29             | -5.70             | -13.46            | 0.03              | 0.15              | -0.02             |
| 282   | 358  | 2.33              | 8.52              | 4.79              | -0.14             | -0.69             | -0.20             | 359  | -0.81             | -7.16             | 9.26              | 0.00              | 0.00              | -0.20             |
|       | 149  | 2.33              | 8.52              | 4.40              | 0.79              | 3.95              | 0.18              | 153  | -0.81             | -7.16             | 8.88              | 0.01              | 0.03              | 0.18              |
| 283   | 359  | 0.81              | 7.17              | 9.27              | 0.00              | 0.00              | -0.20             | 360  | -2.33             | -8.53             | 4.79              | 0.14              | 0.69              | -0.20             |
|       | 153  | 0.81              | 7.17              | 8.89              | 0.01              | 0.03              | 0.18              | 157  | -2.33             | -8.53             | 4.40              | -0.78             | -3.91             | 0.18              |
| 284   | 360  | -0.37             | 8.81              | 23.45             | 0.14              | 0.69              | 0.03              | 180  | -3.25             | -5.57             | 10.98             | -0.54             | -2.70             | 0.03              |
|       | 157  | -0.37             | 8.81              | -0.21             | -0.78             | -3.91             | -0.06             | 161  | -3.25             | -5.57             | -12.68            | 0.05              | 0.23              | -0.06             |

TENS. Vento dir. 90: SHELL

| Shell | Nodo | S11               | S22               | S12               | M11               | M22               | M12               | Nodo | S11               | S22               | S12               | M11               | M22               | M12               |
|-------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nro   | Nro  | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N.ro | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> | N/cm <sup>q</sup> |
| 285   | 361  | 1.10              | 3.88              | 2.85              | 0.10              | 0.52              | 0.22              | 181  | -0.01             | -1.67             | 6.84              | -0.05             | -0.26             | 0.22              |
|       | 266  | 1.10              | 3.88              | 2.89              | -0.07             | -0.35             | -0.24             | 13   | -0.01             | -1.67             | 6.89              | 0.59              | 2.97              | -0.24             |
| 286   | 362  | -1.08             | 2.36              | 7.15              | 0.00              | 0.02              | -0.42             | 182  | -2.54             | -4.92             | 4.86              | 0.00              | 0.01              | -0.42             |
|       | 277  | -1.08             | 2.36              | 4.76              | 0.13              | 0.67              | 0.40              | 16   | -2.54             | -4.92             | 2.47              | -0.40             | -1.99             | 0.40              |
| 287   | 363  | 1.08              | 3.84              | 3.39              | -0.12             | -0.62             | -0.23             | 183  | -0.01             | -1.65             | 7.40              | 0.06              | 0.28              | -0.23             |
|       | 280  | 1.08              | 3.84              | 3.42              | 0.12              | 0.61              | 0.21              | 17   | -0.01             | -1.65             | 7.43              | -0.53             | -2.67             | 0.21              |
| 288   | 364  | -1.20             | 2.61              | 7.86              | -0.03             | -0.17             | 0.36              | 184  | -2.79             | -5.38             | 5.34              | 0.13              | 0.65              | 0.36              |
|       | 282  | -1.20             | 2.61              | 5.16              | -0.10             | -0.50             | -0.39             | 14   | -2.79             | -5.38             | 2.64              | 0.22              | 1.11              | -0.39             |
| 289   | 365  | -0.08             | -0.38             | 1.06              | 0.01              | 0.04              | 0.00              | 366  | 0.00              | 0.03              | 1.22              | 0.00              | -0.01             | 0.00              |
|       | 42   | -0.08             | -0.38             | 0.75              | -2.01             | -10.05            | -0.03             | 43   | 0.00              | 0.03              | 0.91              | -1.97             | -9.85             | -0.03             |
| 290   | 366  | 0.00              | -0.08             | 0.71              | 0.00              | -0.01             | 0.02              | 367  | -0.01             | -0.13             | 0.62              | 0.00              | 0.00              | 0.02              |
|       | 43   | 0.00              | -0.08             | 0.54              | -1.97             | -9.85             | -0.04             | 44   | -0.01             | -0.13             | 0.45              | -1.90             | -9.49             | -0.04             |
| 291   | 367  | -0.01             | -0.08             | 0.30              | 0.00              | 0.00              | 0.00              | 185  | -0.01             | -0.11             | 0.09              | 0.00              | 0.00              | 0.00              |
|       | 44   | -0.01             | -0.08             | 0.27              | -1.90             | -9.49             | -0.02             | 15   | -0.01             | -0.11             | 0.06              | -1.87             | -9.36             | -0.02             |
| 292   | 368  | -0.01             | -0.13             | -0.64             | 0.00              | -0.01             | -0.06             | 369  | 0.00              | -0.08             | -0.76             | 0.00              | 0.01              | -0.06             |
|       | 63   | -0.01             | -0.13             | -0.49             | -1.92             | -9.58             | 0.04              | 64   | 0.00              | -0.08             | -0.61             | -2.02             | -10.09            | 0.04              |
| 293   | 369  | 0.00              | 0.00              | -1.25             | 0.00              | 0.01              | -0.02             | 370  | -0.07             | -0.34             | -1.14             | 0.00              | -0.02             | -0.02             |
|       | 64   | 0.00              | 0.00              | -0.93             | -2.02             | -10.09            | 0.00              | 65   | -0.07             | -0.34             | -0.82             | -2.03             | -10.16            | 0.00              |
| 294   | 370  | -0.09             | 0.36              | -1.54             | 0.00              | -0.02             | -0.32             | 184  | -0.29             | -0.64             | -1.23             | -0.03             | -0.16             | -0.32             |

### 7.10. PROGETTO E VERIFICA DELLA STRUTTURA

Ottenuti i carichi che dovrà sopportare la struttura sono state progettate le armature come descritto precedentemente e si sono verificati gli elementi costituenti la struttura. La distinta armature è riportata nei grafici di progetto.





| N.r | Rig.Pil+Rig.Setti | Rig.Pil+Rig.Setti | Rig.Pil+Rig.Setti | Rig.Pil+Rig.Setti | Rig.Pil+Rig.Setti | Rig.Pil+Rig.Setti |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 1   | 0.00              | 1.00              | 0.00              | 0.00              | 1.00              | 0.00              |
| 2   | 0.00              | 1.00              | 0.00              | 0.00              | 1.00              | 0.00              |
| 3   | 1.00              | 0.00              | 0.00              | 1.00              | 0.00              | 0.00              |
| 4   | 1.00              | 0.00              | 0.00              | 1.00              | 0.00              | 0.00              |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - ELEVAZIONE

| Filo | Quota | T  | r   | C  | VERIFICA A PRESSO-FLESSIONE |           |       |     |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |
|------|-------|----|-----|----|-----------------------------|-----------|-------|-----|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|
|      |       |    |     |    | Iniz                        | Final     | a     | Bas | n   | Co  | M Exd | M Eyd | N Ed | x/d   | sf%                          | sc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe |
| Fin. | AmpC  | t  | Alt | cm | mb                          | (kN*10)*m | kN*10 | /d  | 100 | 100 | sup   | inf   | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |
| 19   | 2.00  | 1  | 1   | 11 | -1.4                        | 0.0       | 0.0   | 24  | 9   | 4   | 3.1   | 3.1   | 1    | 0.0   | 2.2                          | 0.0   | 16.6     | 16.6  | 1.9       | 0.0   | 13    | 4     | 0.0   | 6   | 30   | 10  |
| 24   | 2.00  | 30 | 3   | 5  | 0.8                         | 0.0       | 0.0   | 23  | 5   | 2   | 3.1   | 3.1   | 3    | 0.0   | -2.0                         | 0.0   | 16.6     | 16.6  | 1.9       | 0.0   | 12    | 12    | 0.0   | 20  | 345  | 10  |
| 2.5  | 1.00  | 30 | 5   | 3  | -1.7                        | 0.0       | 0.0   | 24  | 11  | 5   | 3.1   | 3.1   | 1    | 0.0   | -2.3                         | 0.0   | 16.6     | 16.6  | 1.9       | 0.0   | 14    | 4     | 0.0   | 6   | 30   | 10  |
| 24   | 2.00  | 1  | 1   | 9  | -1.7                        | 0.0       | 0.0   | 24  | 11  | 5   | 3.1   | 3.1   | 1    | 0.0   | 2.3                          | 0.0   | 16.6     | 16.6  | 1.9       | 0.0   | 14    | 4     | 0.0   | 6   | 30   | 10  |
| 21   | 2.00  | 30 | 3   | 11 | 0.8                         | 0.0       | 0.0   | 23  | 5   | 2   | 3.1   | 3.1   | 9    | 0.0   | 2.0                          | 0.0   | 16.6     | 16.6  | 1.9       | 0.0   | 12    | 12    | 0.0   | 20  | 345  | 10  |
| 2.5  | 1.00  | 30 | 5   | 5  | -1.4                        | 0.0       | 0.0   | 24  | 9   | 4   | 3.1   | 3.1   | 1    | 0.0   | -2.2                         | 0.0   | 16.6     | 16.6  | 1.9       | 0.0   | 13    | 4     | 0.0   | 6   | 30   | 10  |
| 1    | 5.00  | 6  | 1   | 31 | -7.1                        | 0.2       | -9.2  | 30  | 10  | 5   | 6.4   | 6.4   | 40   | -0.3  | 3.6                          | 0.0   | 39.9     | 41.0  | 5.7       | 0.0   | 10    | 6     | 0.0   | 11  | 50   | 10  |
| 25   | 6.00  | 40 | 3   | 43 | 5.5                         | -0.2      | -3.1  | 26  | 9   | 4   | 6.4   | 6.4   | 36   | 0.1   | -3.2                         | 0.0   | 23.1     | 29.6  | 9.0       | 0.0   | 8     | 11    | 0.0   | 21  | 211  | 10  |
| 2.5  | 1.00  | 50 | 5   | 31 | -1.1                        | -0.1      | -8.2  | 78  | 0   | 1   | 6.4   | 3.2   | 43   | -0.3  | -3.6                         | 0.0   | 39.9     | 41.0  | 5.7       | 0.0   | 10    | 7     | 0.0   | 11  | 50   | 10  |
| 9    | 5.00  | 6  | 1   | 41 | -7.4                        | -0.1      | -9.5  | 30  | 10  | 5   | 6.4   | 6.4   | 34   | 0.4   | 3.7                          | 0.0   | 39.9     | 41.0  | 5.7       | 0.0   | 10    | 7     | 0.0   | 11  | 50   | 10  |
| 33   | 6.00  | 40 | 3   | 37 | 5.7                         | 0.1       | -2.5  | 25  | 10  | 4   | 6.4   | 6.4   | 46   | -0.1  | -3.4                         | 0.0   | 23.1     | 29.6  | 9.0       | 0.0   | 9     | 11    | 0.0   | 21  | 211  | 10  |
| 2.5  | 1.00  | 50 | 5   | 41 | -1.1                        | 0.0       | -8.5  | 77  | 0   | 1   | 6.4   | 3.2   | 37   | 0.3   | -3.8                         | 0.0   | 39.9     | 41.0  | 5.7       | 0.0   | 10    | 7     | 0.0   | 11  | 50   | 10  |
| 10   | 5.00  | 6  | 1   | 43 | -6.9                        | 0.6       | -10.3 | 30  | 9   | 5   | 6.4   | 6.4   | 43   | 0.4   | 3.5                          | 0.0   | 40.1     | 41.2  | 5.7       | 0.0   | 10    | 6     | 0.0   | 11  | 50   | 10  |
| 25   | 6.00  | 40 | 3   | 31 | 5.6                         | -0.2      | -3.5  | 26  | 9   | 4   | 6.4   | 6.4   | 31   | -0.1  | -3.3                         | 0.0   | 23.1     | 29.6  | 9.0       | 0.0   | 8     | 11    | 0.0   | 21  | 211  | 10  |
| 2.5  | 1.00  | 50 | 5   | 43 | -1.0                        | -0.6      | -9.2  | 86  | 0   | 1   | 6.4   | 3.2   | 40   | 0.3   | -3.6                         | 0.0   | 40.1     | 41.2  | 5.7       | 0.0   | 10    | 7     | 0.0   | 11  | 50   | 10  |
| 18   | 5.00  | 6  | 1   | 37 | -7.3                        | -0.6      | -11.8 | 31  | 9   | 5   | 6.4   | 6.4   | 37   | -0.4  | 3.7                          | 0.0   | 40.3     | 41.4  | 5.7       | 0.0   | 10    | 7     | 0.0   | 11  | 50   | 10  |
| 33   | 6.00  | 40 | 3   | 41 | 5.9                         | 0.2       | -4.0  | 26  | 9   | 4   | 6.4   | 6.4   | 41   | 0.1   | -3.4                         | 0.0   | 23.1     | 29.6  | 9.0       | 0.0   | 9     | 12    | 0.0   | 21  | 211  | 10  |
| 2.5  | 1.00  | 50 | 5   | 12 | -1.0                        | 0.4       | -11.3 | 96  | 0   | 1   | 6.4   | 3.2   | 34   | -0.3  | -3.8                         | 0.0   | 40.3     | 41.4  | 5.7       | 0.0   | 10    | 7     | 0.0   | 11  | 50   | 10  |
| 2    | 5.00  | 9  | 1   | 31 | -2.9                        | 0.7       | -8.4  | 29  | 12  | 7   | 4.8   | 4.8   | 24   | -1.5  | 2.2                          | 0.0   | 32.4     | 28.5  | 3.6       | 0.0   | 12    | 6     | 0.0   | 5   | 25   | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - ELEVAZIONE

| Filo | Quota | T  | r   | C  | VERIFICA A PRESSO-FLESSIONE |           |       |     |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |
|------|-------|----|-----|----|-----------------------------|-----------|-------|-----|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|
|      |       |    |     |    | Iniz                        | Final     | a     | Bas | n   | Co  | M Exd | M Eyd | N Ed | x/    | s/f%                         | εc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe |
| Fin. | AmpC  | t  | Alt | c  | mb                          | (kN*10)*m | kN*10 | /d  | 100 | 100 | sup   | inf   | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |
| 26   | 6.00  | 60 | 3   | 43 | 1.7                         | -0.4      | -10.2 | 36  | 5   | 4   | 4.8   | 4.8   | 6    | 0.0   | -2.8                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 11    | 16    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 6  | -1.6                        | 0.1       | -12.5 | 44  | 3   | 3   | 4.8   | 3.1   | 20   | 1.5   | -2.2                         | 0.0   | 32.4     | 28.5  | 3.6       | 0.0   | 12    | 6     | 0.0   | 5   | 25   | 10  |
| 6    | 5.00  | 9  | 1   | 41 | -2.8                        | -0.6      | -8.4  | 29  | 11  | 6   | 4.8   | 4.8   | 12   | 0.0   | 3.7                          | 0.0   | 32.7     | 28.8  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 30   | 6.00  | 60 | 3   | 37 | 1.7                         | 0.3       | -13.1 | 42  | 3   | 3   | 4.8   | 4.8   | 6    | 0.0   | -3.2                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 18    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 6  | -1.8                        | 0.0       | -14.5 | 44  | 3   | 4   | 4.8   | 3.1   | 6    | 0.0   | -3.8                         | 0.0   | 32.7     | 28.8  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 7    | 5.00  | 9  | 1   | 41 | -2.9                        | -0.5      | -8.6  | 29  | 12  | 7   | 4.8   | 4.8   | 12   | 0.1   | 3.7                          | 0.0   | 32.7     | 28.8  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 31   | 6.00  | 60 | 3   | 37 | 1.8                         | 0.3       | -12.6 | 40  | 4   | 4   | 4.8   | 4.8   | 6    | 0.1   | -3.2                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 18    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 6  | -1.8                        | -0.1      | -14.3 | 44  | 3   | 4   | 4.8   | 3.1   | 6    | 0.1   | -3.8                         | 0.0   | 32.7     | 28.8  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 8    | 5.00  | 9  | 1   | 41 | -3.0                        | -0.6      | -13.0 | 32  | 10  | 7   | 4.8   | 4.8   | 25   | -1.4  | 2.4                          | 0.0   | 32.5     | 28.7  | 3.6       | 0.0   | 13    | 6     | 0.0   | 5   | 25   | 10  |
| 32   | 6.00  | 60 | 3   | 37 | 1.8                         | 0.3       | -6.9  | 31  | 7   | 4   | 4.8   | 4.8   | 6    | 0.0   | -3.0                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 17    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 6  | -1.7                        | 0.0       | -13.4 | 43  | 3   | 4   | 4.8   | 3.1   | 21   | 1.4   | -2.4                         | 0.0   | 32.5     | 28.7  | 3.6       | 0.0   | 13    | 6     | 0.0   | 5   | 25   | 10  |
| 3    | 5.00  | 9  | 1   | 31 | -3.0                        | 0.4       | -13.2 | 32  | 10  | 7   | 4.8   | 4.8   | 12   | -0.2  | 3.7                          | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 27   | 6.00  | 60 | 3   | 43 | 1.8                         | -0.5      | -7.3  | 31  | 6   | 4   | 4.8   | 4.8   | 6    | -0.2  | -3.2                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 18    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 6  | -1.8                        | 0.3       | -14.0 | 43  | 3   | 4   | 4.8   | 3.1   | 6    | -0.2  | -3.8                         | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 4    | 5.00  | 9  | 1   | 31 | -2.9                        | 0.6       | -12.7 | 32  | 10  | 6   | 4.8   | 4.8   | 12   | 0.0   | 4.1                          | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 28   | 6.00  | 60 | 3   | 43 | 1.8                         | -0.3      | -6.9  | 31  | 6   | 4   | 4.8   | 4.8   | 6    | 0.0   | -3.6                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 20    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 6  | -2.0                        | 0.0       | -13.3 | 39  | 5   | 4   | 4.8   | 3.1   | 6    | 0.0   | -4.3                         | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 15    | 8     | 0.0   | 5   | 25   | 10  |
| 5    | 5.00  | 9  | 1   | 34 | -2.8                        | 0.9       | -13.4 | 33  | 9   | 6   | 4.8   | 4.8   | 12   | 0.1   | 3.9                          | 0.0   | 32.8     | 28.9  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 29   | 6.00  | 60 | 3   | 37 | 1.7                         | 0.4       | -8.1  | 33  | 5   | 4   | 4.8   | 4.8   | 6    | 0.1   | -3.3                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 19    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 6  | -1.9                        | -0.2      | -14.7 | 43  | 4   | 4   | 4.8   | 3.1   | 6    | 0.1   | -4.0                         | 0.0   | 32.8     | 28.9  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 11   | 5.00  | 9  | 1   | 43 | -2.8                        | 0.8       | -7.4  | 29  | 12  | 6   | 4.8   | 4.8   | 27   | 1.5   | 2.2                          | 0.0   | 32.2     | 28.3  | 3.6       | 0.0   | 12    | 6     | 0.0   | 5   | 25   | 10  |
| 26   | 6.00  | 60 | 3   | 31 | 1.8                         | -0.5      | -9.1  | 34  | 5   | 4   | 4.8   | 4.8   | 12   | 0.1   | -2.8                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 11    | 16    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 12 | -1.6                        | -0.1      | -11.1 | 40  | 3   | 3   | 4.8   | 3.1   | 15   | -1.5  | -2.2                         | 0.0   | 32.2     | 28.3  | 3.6       | 0.0   | 13    | 6     | 0.0   | 5   | 25   | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - ELEVAZIONE

| Filo | Quota | T  | r   | C  | VERIFICA A PRESSO-FLESSIONE |           |       |     |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |
|------|-------|----|-----|----|-----------------------------|-----------|-------|-----|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|
|      |       |    |     |    | Iniz                        | Final     | a     | Bas | n   | Co  | M Exd | M Eyd | N Ed | x/    | sF%                          | sc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe |
| Ctgθ | AmpC  | t  | Alt | c  | mb                          | (kN*10)*m | kN*10 | /d  | 100 | 100 | sup   | inf   | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |
| 15   | 5.00  | 9  | 1   | 37 | -2.8                        | -0.7      | -7.0  | 29  | 12  | 6   | 4.8   | 4.8   | 6    | 0.0   | 3.7                          | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 30   | 6.00  | 60 | 3   | 41 | 1.7                         | 0.5       | -11.6 | 39  | 4   | 4   | 4.8   | 4.8   | 12   | 0.0   | -3.2                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 18    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 12 | -1.8                        | 0.0       | -12.4 | 40  | 4   | 4   | 4.8   | 3.1   | 12   | 0.0   | -3.8                         | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 16   | 5.00  | 9  | 1   | 37 | -2.9                        | -0.8      | -7.1  | 29  | 12  | 7   | 4.8   | 4.8   | 6    | 0.0   | 3.6                          | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 31   | 6.00  | 60 | 3   | 41 | 1.8                         | 0.4       | -11.5 | 37  | 4   | 4   | 4.8   | 4.8   | 12   | 0.0   | -3.2                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 18    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 12 | -1.8                        | 0.1       | -12.4 | 40  | 4   | 4   | 4.8   | 3.1   | 12   | 0.0   | -3.8                         | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 17   | 5.00  | 9  | 1   | 37 | -3.0                        | -0.8      | -12.4 | 32  | 10  | 7   | 4.8   | 4.8   | 21   | -1.5  | 2.4                          | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 13    | 6     | 0.0   | 5   | 25   | 10  |
| 32   | 6.00  | 60 | 3   | 41 | 1.9                         | 0.5       | -6.4  | 30  | 7   | 4   | 4.8   | 4.8   | 12   | 0.0   | -3.1                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 18    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 12 | -1.7                        | 0.0       | -12.6 | 41  | 4   | 4   | 4.8   | 3.1   | 25   | 1.5   | -2.4                         | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 12   | 5.00  | 9  | 1   | 43 | -2.9                        | 0.9       | -12.8 | 32  | 10  | 6   | 4.8   | 4.8   | 6    | 0.2   | 3.7                          | 0.0   | 32.5     | 28.6  | 3.6       | 0.0   | 13    | 7     | 0.0   | 5   | 25   | 10  |
| 27   | 6.00  | 60 | 3   | 31 | 1.8                         | -0.4      | -6.8  | 31  | 6   | 4   | 4.8   | 4.8   | 12   | 0.2   | -3.2                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 18    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 12 | -1.8                        | -0.3      | -13.2 | 41  | 4   | 4   | 4.8   | 3.1   | 12   | 0.2   | -3.8                         | 0.0   | 32.5     | 28.6  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 13   | 5.00  | 9  | 1   | 43 | -2.9                        | 0.7       | -15.5 | 35  | 9   | 6   | 4.8   | 4.8   | 6    | 0.0   | 4.1                          | 0.0   | 33.1     | 29.2  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 28   | 6.00  | 60 | 3   | 31 | 1.8                         | -0.5      | -9.8  | 35  | 5   | 4   | 4.8   | 4.8   | 12   | 0.0   | -3.6                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 21    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 12 | -2.0                        | 0.0       | -17.2 | 45  | 3   | 4   | 4.8   | 3.1   | 12   | 0.0   | -4.3                         | 0.0   | 33.1     | 29.2  | 3.6       | 0.0   | 15    | 8     | 0.0   | 5   | 25   | 10  |
| 14   | 5.00  | 9  | 1   | 46 | -2.7                        | 0.5       | -13.0 | 33  | 9   | 6   | 4.8   | 4.8   | 6    | -0.1  | 3.9                          | 0.0   | 32.6     | 28.8  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 29   | 6.00  | 60 | 3   | 41 | 1.7                         | 0.4       | -7.5  | 32  | 6   | 4   | 4.8   | 4.8   | 12   | -0.1  | -3.4                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 12    | 19    | 0.0   | 16  | 261  | 10  |
| 2.5  | 1.00  | 25 | 5   | 12 | -1.9                        | 0.2       | -13.8 | 41  | 4   | 4   | 4.8   | 3.1   | 12   | -0.1  | -4.0                         | 0.0   | 32.6     | 28.8  | 3.6       | 0.0   | 14    | 7     | 0.0   | 5   | 25   | 10  |
| 1    | 5.00  | 5  | 1   | 18 | -3.3                        | 0.0       | 0.0   | 23  | 10  | 3   | 5.1   | 5.1   | 18   | 0.0   | 2.5                          | 0.0   | 30.9     | 30.9  | 4.3       | 0.0   | 8     | 4     | 0.0   | 8   | 40   | 10  |
| 2    | 5.00  | 40 | 3   | 30 | 1.8                         | 0.0       | 0.0   | 23  | 5   | 2   | 5.1   | 5.1   | 30   | 0.0   | -2.5                         | 0.0   | 23.1     | 23.1  | 6.8       | 0.0   | 8     | 11    | 0.0   | 21  | 195  | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -2.8                        | 0.0       | 0.0   | 23  | 8   | 3   | 5.1   | 5.1   | 30   | 0.0   | -2.6                         | 0.0   | 30.9     | 30.9  | 4.3       | 0.0   | 9     | 4     | 0.0   | 8   | 40   | 10  |
| 2    | 5.00  | 5  | 1   | 20 | -2.4                        | 0.0       | 0.0   | 23  | 7   | 3   | 5.1   | 5.1   | 18   | 0.0   | 2.2                          | 0.0   | 30.9     | 30.9  | 4.3       | 0.0   | 7     | 4     | 0.0   | 8   | 40   | 10  |
| 3    | 5.00  | 40 | 3   | 30 | -1.3                        | 0.0       | 0.0   | 23  | 4   | 1   | 5.1   | 5.1   | 30   | 0.0   | -2.0                         | 0.0   | 23.1     | 23.1  | 6.8       | 0.0   | 7     | 9     | 0.0   | 21  | 195  | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -2.7                        | 0.0       | 0.0   | 23  | 8   | 3   | 5.1   | 5.1   | 30   | 0.0   | -2.2                         | 0.0   | 30.9     | 30.9  | 4.3       | 0.0   | 7     | 4     | 0.0   | 8   | 40   | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - ELEVAZIONE

| Filo | Quota | T  | r   | C  | VERIFICA A PRESSO-FLESSIONE |           |       |      |     |       |       |          |    |       | VERIFICA A TAGLIO E TORSIONE |          |       |       |           |       |       |       |      |        |     |     |
|------|-------|----|-----|----|-----------------------------|-----------|-------|------|-----|-------|-------|----------|----|-------|------------------------------|----------|-------|-------|-----------|-------|-------|-------|------|--------|-----|-----|
|      |       |    |     |    | Iniz                        | Iniz      | Sez   | o    | Co  | M Exd | M Eyd | N Ed     | x/ | sF%   | εc%                          | Area cmq | Co    | V Exd | V Eyd     | T Sdu | V Rxd | V Ryd | TRd  | TRld   | Coe | Coe |
| Fin. | Final | a  | Bas | n  | Co                          | M Exd     | M Eyd | N Ed | x/  | sF%   | εc%   | Area cmq | Co | V Exd | V Eyd                        | T Sdu    | V Rxd | V Ryd | TRd       | TRld  | Coe   | Coe   | ALon | Staffe |     |     |
| Ctgθ | AmpC  | t  | Alt | c  | mb                          | (kN*10)*m | kN*10 | /d   | 100 | 100   | sup   | inf      | mb | kN*10 | kN*10                        | kN10m    | kN*10 | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas  | Lun    | Fi  |     |
| 3    | 5.00  | 5  | 1   | 18 | -2.6                        | 0.0       | 0.0   | 23   | 8   | 3     | 5.1   | 5.1      | 18 | 0.0   | 1.9                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 4    | 5.00  | 40 | 3   | 18 | 1.0                         | 0.0       | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 18 | 0.0   | 1.7                          | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 6     | 7     | 0.0  | 21     | 300 | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -2.3                        | 0.0       | 0.0   | 23   | 7   | 2     | 5.1   | 5.1      | 30 | 0.0   | -1.7                         | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 4    | 5.00  | 5  | 1   | 18 | -2.3                        | 0.0       | 0.0   | 23   | 7   | 2     | 5.1   | 5.1      | 18 | 0.0   | 1.7                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 5    | 5.00  | 40 | 3   | 30 | 1.0                         | 0.0       | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 30 | 0.0   | -1.7                         | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 6     | 8     | 0.0  | 21     | 300 | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -2.6                        | 0.0       | 0.0   | 23   | 8   | 3     | 5.1   | 5.1      | 30 | 0.0   | -1.9                         | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 5    | 5.00  | 5  | 1   | 18 | -2.7                        | 0.0       | 0.0   | 23   | 8   | 3     | 5.1   | 5.1      | 18 | 0.0   | 2.1                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 7     | 3     | 0.0  | 8      | 40  | 10  |
| 6    | 5.00  | 40 | 3   | 30 | 1.1                         | 0.0       | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 30 | 0.0   | -1.9                         | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 6     | 8     | 0.0  | 21     | 240 | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -2.7                        | 0.0       | 0.0   | 23   | 8   | 3     | 5.1   | 5.1      | 30 | 0.0   | -2.1                         | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 7     | 3     | 0.0  | 8      | 40  | 10  |
| 6    | 5.00  | 5  | 1   | 18 | -2.4                        | 0.0       | 0.0   | 23   | 7   | 3     | 5.1   | 5.1      | 18 | 0.0   | 1.9                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 7    | 5.00  | 40 | 3   | 18 | 1.0                         | 0.0       | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 18 | 0.0   | 1.7                          | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 6     | 7     | 0.0  | 21     | 260 | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -2.5                        | 0.0       | 0.0   | 23   | 7   | 3     | 5.1   | 5.1      | 24 | 0.0   | -1.9                         | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 7    | 5.00  | 5  | 1   | 18 | -2.5                        | 0.0       | 0.0   | 23   | 7   | 3     | 5.1   | 5.1      | 18 | 0.0   | 2.0                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 8    | 5.00  | 40 | 3   | 30 | 1.1                         | 0.0       | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 18 | 0.0   | 1.8                          | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 6     | 8     | 0.0  | 21     | 230 | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -2.4                        | 0.0       | 0.0   | 23   | 7   | 2     | 5.1   | 5.1      | 24 | 0.0   | -2.0                         | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 8    | 5.00  | 5  | 1   | 18 | -2.8                        | 0.0       | 0.0   | 23   | 8   | 3     | 5.1   | 5.1      | 18 | 0.0   | 2.4                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 8     | 4     | 0.0  | 8      | 40  | 10  |
| 9    | 5.00  | 40 | 3   | 18 | 1.7                         | 0.0       | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 18 | 0.0   | 2.3                          | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 7     | 10    | 0.0  | 21     | 230 | 10  |
| 2.5  | 1.00  | 40 | 5   | 30 | -3.2                        | 0.0       | 0.0   | 23   | 9   | 3     | 5.1   | 5.1      | 30 | 0.0   | -2.3                         | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 8     | 4     | 0.0  | 8      | 40  | 10  |
| 10   | 5.00  | 5  | 1   | 21 | -3.3                        | 0.0       | 0.0   | 23   | 10  | 3     | 5.1   | 5.1      | 21 | 0.0   | 2.5                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 8     | 4     | 0.0  | 8      | 40  | 10  |
| 11   | 5.00  | 40 | 3   | 25 | 1.7                         | 0.0       | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 21 | 0.0   | 2.4                          | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 8     | 10    | 0.0  | 21     | 195 | 10  |
| 2.5  | 1.00  | 40 | 5   | 25 | -2.6                        | 0.0       | 0.0   | 23   | 8   | 3     | 5.1   | 5.1      | 25 | 0.0   | -2.5                         | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 8     | 4     | 0.0  | 8      | 40  | 10  |
| 11   | 5.00  | 5  | 1   | 21 | -2.3                        | 0.0       | 0.0   | 23   | 7   | 2     | 5.1   | 5.1      | 21 | 0.0   | 2.1                          | 0.0      | 30.9  | 30.9  | 4.3       | 0.0   | 7     | 3     | 0.0  | 8      | 40  | 10  |
| 12   | 5.00  | 40 | 3   | 21 | 1.1                         | 0.0       | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 21 | 0.0   | 1.9                          | 0.0      | 23.1  | 23.1  | 6.8       | 0.0   | 6     | 8     | 0.0  | 21     | 195 | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - ELEVAZIONE

| Filo | Quota | T | r   | C | VERIFICA A PRESSO-FLESSIONE |           |       |     |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |     |
|------|-------|---|-----|---|-----------------------------|-----------|-------|-----|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|-----|
|      |       |   |     |   | Iniz                        | Final     | a     | Bas | n   | Co  | M Exd | M Eyd | N Ed | x/d   | s/f%                         | sc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe | Coe |
| Ctgθ | AmpC  | t | Alt | c | mb                          | (kN*10)*m | kN*10 | /d  | 100 | 100 | sup   | inf   | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |     |
| 2.5  | 1.00  |   | 40  | 5 | 25                          | -2.5      | 0.0   | 0.0 | 23  | 7   | 3     | 5.1   | 5.1  | 25    | 0.0                          | -2.1  | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 7     | 3     | 0.0 | 8    | 40  | 10  |
| 12   | 5.00  |   | 5   | 1 | 21                          | -2.3      | 0.0   | 0.0 | 23  | 7   | 2     | 5.1   | 5.1  | 21    | 0.0                          | 1.8   | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 13   | 5.00  |   | 40  | 3 | 21                          | 1.0       | 0.0   | 0.0 | 23  | 3   | 1     | 5.1   | 5.1  | 21    | 0.0                          | 1.6   | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 5     | 7     | 0.0 | 21   | 300 | 10  |
| 2.5  | 1.00  |   | 40  | 5 | 25                          | -2.4      | 0.0   | 0.0 | 23  | 7   | 2     | 5.1   | 5.1  | 25    | 0.0                          | -1.8  | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 13   | 5.00  |   | 5   | 1 | 21                          | -2.5      | 0.0   | 0.0 | 23  | 7   | 3     | 5.1   | 5.1  | 21    | 0.0                          | 1.8   | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 14   | 5.00  |   | 40  | 3 | 25                          | 1.0       | 0.0   | 0.0 | 23  | 3   | 1     | 5.1   | 5.1  | 15    | 0.0                          | 1.6   | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 5     | 7     | 0.0 | 21   | 300 | 10  |
| 2.5  | 1.00  |   | 40  | 5 | 25                          | -2.4      | 0.0   | 0.0 | 23  | 7   | 2     | 5.1   | 5.1  | 25    | 0.0                          | -1.8  | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 14   | 5.00  |   | 5   | 1 | 21                          | -2.5      | 0.0   | 0.0 | 23  | 7   | 3     | 5.1   | 5.1  | 21    | 0.0                          | 2.0   | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 15   | 5.00  |   | 40  | 3 | 25                          | 1.0       | 0.0   | 0.0 | 23  | 3   | 1     | 5.1   | 5.1  | 21    | 0.0                          | 1.8   | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 6     | 8     | 0.0 | 21   | 240 | 10  |
| 2.5  | 1.00  |   | 40  | 5 | 25                          | -2.5      | 0.0   | 0.0 | 23  | 7   | 3     | 5.1   | 5.1  | 25    | 0.0                          | -2.0  | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 15   | 5.00  |   | 5   | 1 | 21                          | -2.4      | 0.0   | 0.0 | 23  | 7   | 2     | 5.1   | 5.1  | 21    | 0.0                          | 1.9   | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 16   | 5.00  |   | 40  | 3 | 21                          | 1.0       | 0.0   | 0.0 | 23  | 3   | 1     | 5.1   | 5.1  | 21    | 0.0                          | 1.7   | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 5     | 7     | 0.0 | 21   | 260 | 10  |
| 2.5  | 1.00  |   | 40  | 5 | 25                          | -2.4      | 0.0   | 0.0 | 23  | 7   | 2     | 5.1   | 5.1  | 25    | 0.0                          | -1.9  | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 16   | 5.00  |   | 5   | 1 | 21                          | -2.4      | 0.0   | 0.0 | 23  | 7   | 2     | 5.1   | 5.1  | 21    | 0.0                          | 1.9   | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 17   | 5.00  |   | 40  | 3 | 25                          | 1.0       | 0.0   | 0.0 | 23  | 3   | 1     | 5.1   | 5.1  | 21    | 0.0                          | 1.8   | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 6     | 8     | 0.0 | 21   | 230 | 10  |
| 2.5  | 1.00  |   | 40  | 5 | 25                          | -2.3      | 0.0   | 0.0 | 23  | 7   | 2     | 5.1   | 5.1  | 25    | 0.0                          | -1.9  | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0 | 8    | 40  | 10  |
| 17   | 5.00  |   | 5   | 1 | 21                          | -2.7      | 0.0   | 0.0 | 23  | 8   | 3     | 5.1   | 5.1  | 21    | 0.0                          | 2.3   | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 8     | 4     | 0.0 | 8    | 40  | 10  |
| 18   | 5.00  |   | 40  | 3 | 21                          | 1.6       | 0.0   | 0.0 | 23  | 5   | 2     | 5.1   | 5.1  | 21    | 0.0                          | 2.2   | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 7     | 9     | 0.0 | 21   | 230 | 10  |
| 2.5  | 1.00  |   | 40  | 5 | 25                          | -3.2      | 0.0   | 0.0 | 23  | 9   | 3     | 5.1   | 5.1  | 25    | 0.0                          | -2.3  | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 8     | 4     | 0.0 | 8    | 40  | 10  |
| 25   | 6.00  |   | 25  | 1 | 30                          | -1.1      | 0.0   | 0.0 | 28  | 7   | 3     | 4.8   | 4.9  | 23    | 0.0                          | 1.1   | 0.0      | 30.2  | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0 | 5    | 25  | 10  |
| 26   | 6.00  |   | 60  | 3 | 18                          | 0.5       | 0.0   | 0.0 | 29  | 2   | 1     | 4.8   | 4.8  | 15    | 0.0                          | -1.0  | 0.0      | 47.5  | 17.4      | 7.5   | 0.0   | 4     | 6     | 0.0 | 16   | 285 | 10  |
| 2.5  | 1.00  |   | 25  | 5 | 18                          | -1.0      | 0.0   | 0.0 | 28  | 6   | 3     | 4.8   | 4.9  | 15    | 0.0                          | -1.1  | 0.0      | 30.2  | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0 | 5    | 25  | 10  |
| 26   | 6.00  |   | 25  | 1 | 30                          | -1.1      | 0.0   | 0.0 | 28  | 6   | 3     | 4.8   | 4.9  | 23    | 0.0                          | 1.1   | 0.0      | 30.2  | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0 | 5    | 25  | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - ELEVAZIONE

| Filo | Quota | T  | r   | C  | VERIFICA A PRESSO-FLESSIONE |           |       |     |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |
|------|-------|----|-----|----|-----------------------------|-----------|-------|-----|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|
|      |       |    |     |    | Iniz                        | Final     | a     | Bas | n   | Co  | M Exd | M Eyd | N Ed | x/    | sF%                          | εc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe |
| Ctgθ | AmpC  | t  | Alt | c  | mb                          | (kN*10)*m | kN*10 | /d  | 100 | 100 | sup   | inf   | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |
| 27   | 6.00  | 60 | 3   | 18 | 0.3                         | 0.0       | 0.0   | 29  | 2   | 1   | 4.8   | 4.8   | 15   | 0.0   | -1.0                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 4     | 6     | 0.0   | 16  | 265  | 10  |
| 2.5  | 1.00  | 25 | 5   | 18 | -1.1                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 15   | 0.0   | -1.1                         | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 27   | 6.00  | 25 | 1   | 24 | -1.2                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 23   | 0.0   | 1.1                          | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 28   | 6.00  | 60 | 3   | 25 | 0.4                         | 0.0       | 0.0   | 29  | 2   | 1   | 4.8   | 4.8   | 15   | 0.0   | -1.0                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 4     | 6     | 0.0   | 16  | 370  | 10  |
| 2.5  | 1.00  | 25 | 5   | 21 | -1.2                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 15   | 0.0   | -1.1                         | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 28   | 6.00  | 25 | 1   | 27 | -1.2                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 23   | 0.0   | 1.1                          | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 29   | 6.00  | 60 | 3   | 15 | 0.4                         | 0.0       | 0.0   | 29  | 2   | 1   | 4.8   | 4.8   | 15   | 0.0   | -1.0                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 4     | 6     | 0.0   | 16  | 370  | 10  |
| 2.5  | 1.00  | 25 | 5   | 18 | -1.2                        | 0.0       | 0.0   | 28  | 7   | 4   | 4.8   | 4.9   | 15   | 0.0   | -1.1                         | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 29   | 6.00  | 25 | 1   | 25 | -1.2                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 23   | 0.0   | 1.1                          | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 30   | 6.00  | 60 | 3   | 20 | 0.3                         | 0.0       | 0.0   | 29  | 2   | 1   | 4.8   | 4.8   | 23   | 0.0   | 1.0                          | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 4     | 6     | 0.0   | 16  | 310  | 10  |
| 2.5  | 1.00  | 25 | 5   | 21 | -1.1                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 15   | 0.0   | -1.1                         | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 30   | 6.00  | 25 | 1   | 27 | -1.1                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 23   | 0.0   | 1.1                          | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 31   | 6.00  | 60 | 3   | 15 | 0.4                         | 0.0       | 0.0   | 29  | 2   | 1   | 4.8   | 4.8   | 15   | 0.0   | -1.0                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 4     | 6     | 0.0   | 16  | 330  | 10  |
| 2.5  | 1.00  | 25 | 5   | 15 | -1.1                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 15   | 0.0   | -1.1                         | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 31   | 6.00  | 25 | 1   | 30 | -1.1                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 23   | 0.0   | 1.1                          | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 32   | 6.00  | 60 | 3   | 30 | 0.4                         | 0.0       | 0.0   | 29  | 2   | 1   | 4.8   | 4.8   | 15   | 0.0   | -1.0                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 4     | 6     | 0.0   | 16  | 300  | 10  |
| 2.5  | 1.00  | 25 | 5   | 18 | -1.1                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 15   | 0.0   | -1.0                         | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 32   | 6.00  | 25 | 1   | 27 | -1.1                        | 0.0       | 0.0   | 28  | 6   | 3   | 4.8   | 4.9   | 23   | 0.0   | 1.1                          | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 33   | 6.00  | 60 | 3   | 27 | 0.5                         | 0.0       | 0.0   | 29  | 3   | 1   | 4.8   | 4.8   | 23   | 0.0   | 1.0                          | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 4     | 6     | 0.0   | 16  | 320  | 10  |
| 2.5  | 1.00  | 25 | 5   | 15 | -1.1                        | 0.0       | 0.0   | 28  | 7   | 3   | 4.8   | 4.9   | 15   | 0.0   | -1.1                         | 0.0   | 30.2     | 26.6  | 3.6       | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - PILASTRI

| Filo<br>Iniz<br>Fin.<br>Ctgθ | Quota<br>Iniz.<br>Final<br>N/Nc | T<br>r<br>a<br>t | C<br>Sez<br>o<br>n<br>a<br>l<br>t | VERIFICA A PRESSO-FLESSIONE |                    |                    |               |          |            |           |                 |              |                | VERIFICA A TAGLIO E TORSIONE |                |                |                |                  |      |            |            |             |                      |
|------------------------------|---------------------------------|------------------|-----------------------------------|-----------------------------|--------------------|--------------------|---------------|----------|------------|-----------|-----------------|--------------|----------------|------------------------------|----------------|----------------|----------------|------------------|------|------------|------------|-------------|----------------------|
|                              |                                 |                  |                                   | Co<br>n<br>c<br>m<br>b      | M Exd<br>(kN*10)*m | M Eyd<br>(kN*10)*m | N Ed<br>kN*10 | x/<br>/d | s/f<br>100 | εc<br>100 | Area cmq<br>b h | Co<br>m<br>b | V Exd<br>kN*10 | V Eyd<br>kN*10               | T Sdu<br>kN10m | V Rxd<br>kN*10 | V Ryd<br>kN*10 | TRd<br>(kN*10)*m | TRld | Coe<br>Cls | Coe<br>Sta | ALon<br>cmq | Staffe<br>Pas Lun Fi |
| 24                           | 0.00                            | 1                | 1 12                              | -0.1                        | -0.1               | -5.6               | 0             | 1        | 3.8        | 3.8       | 37              | 0.0          | -0.1           | 0.0                          | 17.3           | 17.3           | 1.9            | 0.0              | 1    | 0          | 0.0        | 11 66 10    |                      |
| 24                           | 2.00                            | 30               | 3 12                              | -0.1                        | -0.1               | -5.4               | 0             | 1        | 3.8        | 3.8       | 37              | 0.0          | -0.1           | 0.0                          | 17.3           | 17.3           | 1.9            | 0.0              | 1    | 0          | 0.0        | 16 59 10    |                      |
| 2.5                          | 0.03                            | 30               | 5 12                              | -0.1                        | -0.1               | -5.1               | 0             | 1        | 3.8        | 3.8       | 37              | 0.0          | -0.1           | 0.0                          | 17.3           | 17.3           | 1.9            | 0.0              | 1    | 0          | 0.0        | 11 45 10    |                      |
| 1                            | 2.00                            | 5                | 1 31                              | -6.2                        | -0.9               | -6.7               | 13            | 8        | 6.0        | 5.1       | 40              | -0.6         | -4.7           | 0.0                          | 31.7           | 31.7           | 4.3            | 0.0              | 17   | 7          | 0.0        | 11 47 10    |                      |
| 1                            | 5.00                            | 40               | 3 43                              | 1.7                         | 0.1                | -3.2               | 3             | 2        | 6.3        | 4.8       | 40              | -0.6         | -4.7           | 0.0                          | 31.7           | 31.7           | 4.3            | 0.0              | 17   | 10         | 0.0        | 16 167 10   |                      |
| 2.5                          | 0.03                            | 40               | 5 40                              | 6.0                         | -0.7               | -4.4               | 12            | 7        | 6.4        | 4.6       | 40              | -0.6         | -4.7           | 0.0                          | 31.7           | 31.7           | 4.3            | 0.0              | 17   | 7          | 0.0        | 11 45 10    |                      |
| 2                            | 2.00                            | 5                | 1 40                              | -4.7                        | 1.1                | -6.7               | 9             | 6        | 6.4        | 4.7       | 24              | -2.6         | -1.7           | 0.0                          | 32.2           | 32.2           | 4.3            | 0.0              | 13   | 3          | 0.0        | 10 63 10    |                      |
| 2                            | 5.00                            | 40               | 3 36                              | 1.9                         | -0.2               | -7.7               | 2             | 2        | 6.3        | 4.8       | 24              | -2.6         | -1.7           | 0.0                          | 32.2           | 32.2           | 4.3            | 0.0              | 13   | 4          | 0.0        | 16 150 10   |                      |
| 2.5                          | 0.04                            | 40               | 5 18                              | 1.8                         | 3.7                | -5.3               | 9             | 6        | 6.6        | 4.5       | 24              | -2.6         | -1.7           | 0.0                          | 32.2           | 32.2           | 4.3            | 0.0              | 13   | 3          | 0.0        | 11 47 10    |                      |
| 3                            | 2.00                            | 5                | 1 40                              | -5.0                        | 1.1                | -9.3               | 9             | 6        | 6.4        | 4.7       | 15              | 2.5          | -1.8           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 14   | 3          | 0.0        | 10 65 10    |                      |
| 3                            | 5.00                            | 40               | 3 43                              | 2.1                         | 0.2                | -6.2               | 3             | 2        | 6.3        | 4.8       | 15              | 2.5          | -1.8           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 14   | 4          | 0.0        | 16 150 10   |                      |
| 2.5                          | 0.04                            | 40               | 5 18                              | 2.1                         | 3.6                | -8.1               | 9             | 6        | 6.5        | 4.6       | 15              | 2.5          | -1.8           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 14   | 3          | 0.0        | 11 45 10    |                      |
| 4                            | 2.00                            | 5                | 1 40                              | -4.5                        | 1.0                | -9.7               | 8             | 6        | 6.4        | 4.7       | 24              | -2.2         | -1.7           | 0.0                          | 32.5           | 32.5           | 4.3            | 0.0              | 12   | 3          | 0.0        | 10 64 10    |                      |
| 4                            | 5.00                            | 40               | 3 36                              | 1.9                         | -0.1               | -6.6               | 2             | 2        | 6.4        | 4.7       | 24              | -2.2         | -1.7           | 0.0                          | 32.5           | 32.5           | 4.3            | 0.0              | 12   | 4          | 0.0        | 16 150 10   |                      |
| 2.5                          | 0.04                            | 40               | 5 24                              | 2.2                         | -3.0               | -7.8               | 8             | 6        | 6.6        | 4.5       | 24              | -2.2         | -1.7           | 0.0                          | 32.5           | 32.5           | 4.3            | 0.0              | 12   | 3          | 0.0        | 11 46 10    |                      |
| 5                            | 2.00                            | 5                | 1 40                              | -4.7                        | 1.4                | -9.9               | 9             | 6        | 6.4        | 4.7       | 24              | -2.8         | -1.6           | 0.0                          | 32.5           | 32.5           | 4.3            | 0.0              | 14   | 3          | 0.0        | 10 65 10    |                      |
| 5                            | 5.00                            | 40               | 3 46                              | 1.9                         | 0.3                | -7.0               | 2             | 2        | 6.3        | 4.8       | 24              | -2.8         | -1.6           | 0.0                          | 32.5           | 32.5           | 4.3            | 0.0              | 14   | 5          | 0.0        | 16 150 10   |                      |
| 2.5                          | 0.04                            | 40               | 5 24                              | 2.2                         | -3.5               | -8.3               | 8             | 6        | 6.5        | 4.5       | 24              | -2.8         | -1.6           | 0.0                          | 32.5           | 32.5           | 4.3            | 0.0              | 14   | 3          | 0.0        | 11 45 10    |                      |
| 6                            | 2.00                            | 5                | 1 34                              | -4.5                        | -1.2               | -9.9               | 8             | 6        | 6.4        | 4.7       | 18              | 2.5          | -1.5           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 12   | 3          | 0.0        | 10 63 10    |                      |
| 6                            | 5.00                            | 40               | 3 46                              | 1.8                         | 0.2                | -6.4               | 2             | 2        | 6.3        | 4.8       | 18              | 2.5          | -1.5           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 12   | 4          | 0.0        | 16 152 10   |                      |
| 2.5                          | 0.04                            | 40               | 5 18                              | 2.1                         | 3.3                | -7.6               | 8             | 6        | 6.6        | 4.5       | 18              | 2.5          | -1.5           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 12   | 3          | 0.0        | 11 45 10    |                      |
| 7                            | 2.00                            | 5                | 1 34                              | -4.6                        | -1.2               | -10.0              | 8             | 6        | 6.4        | 4.7       | 18              | 2.4          | -1.5           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 12   | 3          | 0.0        | 10 63 10    |                      |
| 7                            | 5.00                            | 40               | 3 46                              | 1.8                         | 0.2                | -6.1               | 2             | 2        | 6.3        | 4.8       | 18              | 2.4          | -1.5           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 12   | 4          | 0.0        | 16 152 10   |                      |
| 2.5                          | 0.04                            | 40               | 5 24                              | 2.1                         | -3.3               | -7.3               | 8             | 6        | 6.6        | 4.5       | 18              | 2.4          | -1.5           | 0.0                          | 32.4           | 32.4           | 4.3            | 0.0              | 12   | 3          | 0.0        | 11 45 10    |                      |



STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - PILASTRI

| Filo | Quota | T | r   | C | VERIFICA A PRESSO-FLESSIONE |           |       |       |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |
|------|-------|---|-----|---|-----------------------------|-----------|-------|-------|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|
|      |       |   |     |   | Iniz                        | Final     | Sez   | Bas   | n   | Co  | M Exd | M Eyd | N Ed | x/d   | s/f%                         | εc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe |
| Ctgθ | N/Nc  | t | Alt | c | mb                          | (kN*10)*m | kN*10 | /d    | 100 | 100 | b     | h     | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |
| 8    | 2.00  |   | 5   | 1 | 34                          | -4.9      | -1.3  | -9.7  | 9   | 7   | 6.4   | 4.7   | 18   | 2.6   | -1.8                         | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 14    | 3     | 0.0   | 10  | 63   | 10  |
| 8    | 5.00  |   | 40  | 3 | 46                          | 2.0       | 0.2   | -5.8  | 3   | 2   | 6.3   | 4.8   | 18   | 2.6   | -1.8                         | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 14    | 4     | 0.0   | 16  | 151  | 10  |
| 2.5  | 0.04  |   | 40  | 5 | 18                          | 2.2       | 3.6   | -7.9  | 9   | 7   | 6.6   | 4.5   | 18   | 2.6   | -1.8                         | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 14    | 3     | 0.0   | 11  | 46   | 10  |
| 9    | 2.00  |   | 5   | 1 | 34                          | -6.2      | -1.0  | -5.6  | 13  | 8   | 6.0   | 5.1   | 34   | 0.7   | -4.9                         | 0.0   | 31.8     | 31.8  | 4.3       | 0.0   | 18    | 7     | 0.0   | 11  | 48   | 10  |
| 9    | 5.00  |   | 40  | 3 | 37                          | 1.8       | -0.1  | -3.5  | 3   | 2   | 6.3   | 4.8   | 34   | 0.7   | -4.9                         | 0.0   | 31.8     | 31.8  | 4.3       | 0.0   | 18    | 11    | 0.0   | 16  | 167  | 10  |
| 2.5  | 0.03  |   | 40  | 5 | 34                          | 6.2       | 0.8   | -4.5  | 13  | 7   | 6.3   | 4.7   | 34   | 0.7   | -4.9                         | 0.0   | 31.8     | 31.8  | 4.3       | 0.0   | 18    | 7     | 0.0   | 11  | 45   | 10  |
| 10   | 2.00  |   | 5   | 1 | 43                          | 6.4       | 0.8   | -5.7  | 13  | 8   | 6.1   | 5.0   | 43   | -0.6  | 4.7                          | 0.0   | 31.8     | 31.8  | 4.3       | 0.0   | 17    | 7     | 0.0   | 11  | 47   | 10  |
| 10   | 5.00  |   | 40  | 3 | 31                          | -1.5      | -0.3  | -4.8  | 2   | 2   | 6.2   | 4.9   | 43   | -0.6  | 4.7                          | 0.0   | 31.8     | 31.8  | 4.3       | 0.0   | 17    | 10    | 0.0   | 16  | 167  | 10  |
| 2.5  | 0.04  |   | 40  | 5 | 43                          | -5.9      | -0.6  | -4.6  | 12  | 7   | 6.2   | 4.8   | 43   | -0.6  | 4.7                          | 0.0   | 31.8     | 31.8  | 4.3       | 0.0   | 17    | 7     | 0.0   | 11  | 45   | 10  |
| 11   | 2.00  |   | 5   | 1 | 43                          | 4.7       | 1.0   | -8.6  | 9   | 6   | 6.4   | 4.7   | 27   | -2.4  | 1.7                          | 0.0   | 32.2     | 32.2  | 4.3       | 0.0   | 13    | 3     | 0.0   | 11  | 63   | 10  |
| 11   | 5.00  |   | 40  | 3 | 31                          | -1.8      | -0.1  | -4.9  | 3   | 2   | 6.3   | 4.8   | 27   | -2.4  | 1.7                          | 0.0   | 32.2     | 32.2  | 4.3       | 0.0   | 13    | 4     | 0.0   | 16  | 150  | 10  |
| 2.5  | 0.04  |   | 40  | 5 | 27                          | -2.0      | -3.4  | -6.8  | 8   | 6   | 6.6   | 4.5   | 27   | -2.4  | 1.7                          | 0.0   | 32.2     | 32.2  | 4.3       | 0.0   | 13    | 3     | 0.0   | 11  | 47   | 10  |
| 12   | 2.00  |   | 5   | 1 | 43                          | 4.7       | 1.0   | -9.6  | 8   | 6   | 6.4   | 4.7   | 27   | -2.2  | 1.7                          | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 12    | 3     | 0.0   | 10  | 63   | 10  |
| 12   | 5.00  |   | 40  | 3 | 31                          | -1.8      | -0.1  | -5.9  | 2   | 2   | 6.3   | 4.8   | 27   | -2.2  | 1.7                          | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 12    | 4     | 0.0   | 16  | 151  | 10  |
| 2.5  | 0.04  |   | 40  | 5 | 21                          | -1.8      | 3.3   | -6.6  | 8   | 6   | 6.6   | 4.5   | 27   | -2.2  | 1.7                          | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 12    | 3     | 0.0   | 11  | 45   | 10  |
| 13   | 2.00  |   | 5   | 1 | 43                          | 4.8       | 1.0   | -10.8 | 8   | 6   | 6.4   | 4.7   | 21   | 2.2   | 1.7                          | 0.0   | 32.7     | 32.7  | 4.3       | 0.0   | 12    | 3     | 0.0   | 9   | 64   | 10  |
| 13   | 5.00  |   | 40  | 3 | 31                          | -1.7      | -0.2  | -7.7  | 2   | 2   | 6.3   | 4.8   | 21   | 2.2   | 1.7                          | 0.0   | 32.7     | 32.7  | 4.3       | 0.0   | 12    | 4     | 0.0   | 16  | 151  | 10  |
| 2.5  | 0.05  |   | 40  | 5 | 21                          | -2.3      | 3.0   | -8.8  | 7   | 6   | 6.6   | 4.5   | 21   | 2.2   | 1.7                          | 0.0   | 32.7     | 32.7  | 4.3       | 0.0   | 12    | 3     | 0.0   | 11  | 45   | 10  |
| 14   | 2.00  |   | 5   | 1 | 37                          | 4.3       | -1.2  | -9.8  | 8   | 6   | 6.4   | 4.7   | 21   | 2.3   | 1.6                          | 0.0   | 32.5     | 32.5  | 4.3       | 0.0   | 12    | 3     | 0.0   | 10  | 63   | 10  |
| 14   | 5.00  |   | 40  | 3 | 31                          | -1.6      | -0.2  | -6.8  | 2   | 2   | 6.3   | 4.8   | 21   | 2.3   | 1.6                          | 0.0   | 32.5     | 32.5  | 4.3       | 0.0   | 12    | 4     | 0.0   | 16  | 152  | 10  |
| 2.5  | 0.04  |   | 40  | 5 | 27                          | -2.1      | -3.1  | -7.4  | 8   | 6   | 6.6   | 4.5   | 21   | 2.3   | 1.6                          | 0.0   | 32.5     | 32.5  | 4.3       | 0.0   | 12    | 3     | 0.0   | 11  | 45   | 10  |
| 15   | 2.00  |   | 5   | 1 | 37                          | 4.5       | -1.2  | -9.5  | 8   | 6   | 6.4   | 4.7   | 21   | 2.4   | 1.6                          | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 12    | 3     | 0.0   | 10  | 63   | 10  |
| 15   | 5.00  |   | 40  | 3 | 41                          | -1.7      | 0.2   | -5.8  | 2   | 2   | 6.3   | 4.8   | 21   | 2.4   | 1.6                          | 0.0   | 32.4     | 32.4  | 4.3       | 0.0   | 12    | 4     | 0.0   | 16  | 152  | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - PILASTRI

| Filo<br>Iniz<br>Fin.<br>Ctgθ | Quota<br>Iniz.<br>Final<br>N/Nc | T<br>r<br>a<br>t<br>Alt | C<br>Sez<br>o<br>n<br>Co<br>n<br>c<br>mb | VERIFICA A PRESSO-FLESSIONE |                    |               |          |     |     |                 |          |                |                | VERIFICA A TAGLIO E TORSIONE |                |                |                  |      |            |            |             |        |     |    |
|------------------------------|---------------------------------|-------------------------|------------------------------------------|-----------------------------|--------------------|---------------|----------|-----|-----|-----------------|----------|----------------|----------------|------------------------------|----------------|----------------|------------------|------|------------|------------|-------------|--------|-----|----|
|                              |                                 |                         |                                          | M Exd<br>(kN*10)*m          | M Eyd<br>(kN*10)*m | N Ed<br>kN*10 | x/<br>/d | sf% | sc% | Area cmq<br>b h | Co<br>mb | V Exd<br>kN*10 | V Eyd<br>kN*10 | T Sdu<br>kN10m               | V Rxd<br>kN*10 | V Ryd<br>kN*10 | TRd<br>(kN*10)*m | TRld | Coe<br>Cls | Coe<br>Sta | ALon<br>cmq | Staffe |     |    |
|                              |                                 |                         |                                          |                             |                    |               |          |     |     |                 |          |                |                |                              |                |                |                  |      |            |            |             | Pas    | Lun | Fi |
|                              |                                 |                         |                                          |                             |                    |               |          |     |     |                 |          |                |                |                              |                |                |                  |      |            |            |             |        |     |    |
| 2.5                          | 0.04                            | 40                      | 5 21                                     | -2.1                        | 3.2                | -7.5          | 8        | 6   | 6.6 | 4.5             | 21       | 2.4            | 1.6            | 0.0                          | 32.4           | 32.4           | 4.3              | 0.0  | 12         | 3          | 0.0         | 11     | 45  | 10 |
| 16                           | 2.00                            | 5                       | 1 37                                     | 4.7                         | -1.2               | -9.4          | 9        | 6   | 6.4 | 4.7             | 21       | 2.3            | 1.7            | 0.0                          | 32.3           | 32.3           | 4.3              | 0.0  | 12         | 3          | 0.0         | 10     | 63  | 10 |
| 16                           | 5.00                            | 40                      | 3 41                                     | -1.8                        | 0.2                | -5.8          | 2        | 2   | 6.3 | 4.8             | 21       | 2.3            | 1.7            | 0.0                          | 32.3           | 32.3           | 4.3              | 0.0  | 12         | 4          | 0.0         | 16     | 152 | 10 |
| 2.5                          | 0.04                            | 40                      | 5 21                                     | -2.0                        | 3.1                | -7.2          | 8        | 6   | 6.6 | 4.5             | 21       | 2.3            | 1.7            | 0.0                          | 32.3           | 32.3           | 4.3              | 0.0  | 12         | 3          | 0.0         | 11     | 45  | 10 |
| 17                           | 2.00                            | 5                       | 1 37                                     | 4.9                         | -1.2               | -9.4          | 9        | 7   | 6.4 | 4.7             | 21       | 2.5            | 1.8            | 0.0                          | 32.3           | 32.3           | 4.3              | 0.0  | 13         | 3          | 0.0         | 10     | 63  | 10 |
| 17                           | 5.00                            | 40                      | 3 41                                     | -1.9                        | 0.2                | -5.6          | 3        | 2   | 6.3 | 4.8             | 21       | 2.5            | 1.8            | 0.0                          | 32.3           | 32.3           | 4.3              | 0.0  | 13         | 4          | 0.0         | 16     | 151 | 10 |
| 2.5                          | 0.04                            | 40                      | 5 27                                     | -1.9                        | -3.4               | -6.5          | 8        | 6   | 6.6 | 4.5             | 21       | 2.5            | 1.8            | 0.0                          | 32.3           | 32.3           | 4.3              | 0.0  | 13         | 3          | 0.0         | 11     | 46  | 10 |
| 18                           | 2.00                            | 5                       | 1 37                                     | 6.7                         | -0.9               | -6.2          | 14       | 8   | 6.0 | 5.1             | 37       | 0.6            | 5.0            | 0.0                          | 31.9           | 31.9           | 4.3              | 0.0  | 18         | 8          | 0.0         | 11     | 48  | 10 |
| 18                           | 5.00                            | 40                      | 3 41                                     | -1.6                        | 0.3                | -5.2          | 2        | 2   | 6.2 | 4.9             | 37       | 0.6            | 5.0            | 0.0                          | 31.9           | 31.9           | 4.3              | 0.0  | 18         | 11         | 0.0         | 16     | 166 | 10 |
| 2.5                          | 0.04                            | 40                      | 5 37                                     | -6.2                        | 0.7                | -5.1          | 13       | 7   | 6.3 | 4.8             | 37       | 0.6            | 5.0            | 0.0                          | 31.9           | 31.9           | 4.3              | 0.0  | 18         | 8          | 0.0         | 11     | 45  | 10 |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - FATTORI DI COMPORTAMENTO DEGLI ELEMENTI

| IDENTIFICATIVO |      |      |      |      |       |       |             |        |             | DIREZIONE X |      | DIREZIONE Y |      | IDENTIFICATIVO |      |       |       |             |        |             |        |  |  | DIREZIONE X |  | DIREZIONE Y |  |
|----------------|------|------|------|------|-------|-------|-------------|--------|-------------|-------------|------|-------------|------|----------------|------|-------|-------|-------------|--------|-------------|--------|--|--|-------------|--|-------------|--|
| Asta           | Nodo | Nodo | Filo | Filo | QuoIn | QuoFi | Fattore 'q' |        | Fattore 'q' |             | Asta | Nodo        | Nodo | Filo           | Filo | QuoIn | QuoFi | Fattore 'q' |        | Fattore 'q' |        |  |  |             |  |             |  |
| 3D             | In.  | Fin. | Iniz | Fin. | (m)   | (m)   | Tagl.       | Fless. | Tagl.       | Fless.      | 3D   | In.         | Fin. | Iniz           | Fin. | (m)   | (m)   | Tagl.       | Fless. | Tagl.       | Fless. |  |  |             |  |             |  |
| 1              | 10   | 4    | 24   | 24   | 0.00  | 2.00  | 2.76        | 2.76   | 2.76        | 2.76        | 2    | 181         | 10   | 19             | 24   | 2.00  | 2.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 3              | 10   | 183  | 24   | 21   | 2.00  | 2.00  | 2.76        | 2.76   | 2.76        | 2.76        | 4    | 186         | 162  | 1              | 1    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 5              | 187  | 163  | 2    | 2    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 6    | 188         | 164  | 3              | 3    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 7              | 189  | 166  | 4    | 4    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 8    | 190         | 167  | 5              | 5    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 9              | 191  | 168  | 6    | 6    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 10   | 192         | 169  | 7              | 7    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 11             | 193  | 170  | 8    | 8    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 12   | 194         | 171  | 9              | 9    | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 13             | 195  | 172  | 10   | 10   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 14   | 196         | 173  | 11             | 11   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 15             | 197  | 174  | 12   | 12   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 16   | 198         | 175  | 13             | 13   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 17             | 199  | 176  | 14   | 14   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 18   | 200         | 177  | 15             | 15   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 19             | 201  | 178  | 16   | 16   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 20   | 202         | 179  | 17             | 17   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 21             | 203  | 180  | 18   | 18   | 2.00  | 5.00  | 2.76        | 2.76   | 2.76        | 2.76        | 22   | 186         | 204  | 1              | 25   | 5.00  | 6.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |
| 23             | 194  | 205  | 9    | 33   | 5.00  | 6.00  | 2.76        | 2.76   | 2.76        | 2.76        | 24   | 195         | 204  | 10             | 25   | 5.00  | 6.00  | 2.76        | 2.76   | 2.76        | 2.76   |  |  |             |  |             |  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.V. - FATTORI DI COMPORTAMENTO DEGLI ELEMENTI

| IDENTIFICATIVO |      |      |      |      |       |       |             |       |             |        |      | DIREZIONE X |      | DIREZIONE Y |      | IDENTIFICATIVO |       |             |       |             |        |  |  |  |  |  |  | DIREZIONE X |  | DIREZIONE Y |  |
|----------------|------|------|------|------|-------|-------|-------------|-------|-------------|--------|------|-------------|------|-------------|------|----------------|-------|-------------|-------|-------------|--------|--|--|--|--|--|--|-------------|--|-------------|--|
| Asta           | Nodo | Nodo | Filo | Filo | QuoIn | QuoFi | Fattore 'q' |       | Fattore 'q' |        | Asta | Nodo        | Nodo | Filo        | Filo | QuoIn          | QuoFi | Fattore 'q' |       | Fattore 'q' |        |  |  |  |  |  |  |             |  |             |  |
| 3D             | In.  | Fin. | Iniz | Fin. | (m)   | (m)   | Tagl.       | Fless | Tagl.       | Fless. | 3D   | In.         | Fin. | Iniz        | Fin. | (m)            | (m)   | Tagl.       | Fless | Tagl.       | Fless. |  |  |  |  |  |  |             |  |             |  |
| 25             | 203  | 205  | 18   | 33   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 26   | 187         | 206  | 2           | 26   | 5.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 27             | 191  | 207  | 6    | 30   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 28   | 192         | 208  | 7           | 31   | 5.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 29             | 193  | 209  | 8    | 32   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 30   | 188         | 210  | 3           | 27   | 5.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 31             | 189  | 211  | 4    | 28   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 32   | 190         | 212  | 5           | 29   | 5.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 33             | 196  | 206  | 11   | 26   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 34   | 200         | 207  | 15          | 30   | 5.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 35             | 201  | 208  | 16   | 31   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 36   | 202         | 209  | 17          | 32   | 5.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 37             | 197  | 210  | 12   | 27   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 38   | 198         | 211  | 13          | 28   | 5.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 39             | 199  | 212  | 14   | 29   | 5.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 40   | 186         | 187  | 1           | 2    | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 41             | 187  | 188  | 2    | 3    | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 42   | 188         | 189  | 3           | 4    | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 43             | 189  | 190  | 4    | 5    | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 44   | 190         | 191  | 5           | 6    | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 45             | 191  | 192  | 6    | 7    | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 46   | 192         | 193  | 7           | 8    | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 47             | 193  | 194  | 8    | 9    | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 48   | 195         | 196  | 10          | 11   | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 49             | 196  | 197  | 11   | 12   | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 50   | 197         | 198  | 12          | 13   | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 51             | 198  | 199  | 13   | 14   | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 52   | 199         | 200  | 14          | 15   | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 53             | 200  | 201  | 15   | 16   | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 54   | 201         | 202  | 16          | 17   | 5.00           | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 55             | 202  | 203  | 17   | 18   | 5.00  | 5.00  | 2.76        | 2.76  | 2.76        | 2.76   | 56   | 204         | 206  | 25          | 26   | 6.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 57             | 206  | 210  | 26   | 27   | 6.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 58   | 210         | 211  | 27          | 28   | 6.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 59             | 211  | 212  | 28   | 29   | 6.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 60   | 212         | 207  | 29          | 30   | 6.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 61             | 207  | 208  | 30   | 31   | 6.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   | 62   | 208         | 209  | 31          | 32   | 6.00           | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |  |  |  |  |  |  |             |  |             |  |
| 63             | 209  | 205  | 32   | 33   | 6.00  | 6.00  | 2.76        | 2.76  | 2.76        | 2.76   |      |             |      |             |      |                |       |             |       |             |        |  |  |  |  |  |  |             |  |             |  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - ELEVAZIONE

| Filo | Quota | T  | C   | VERIFICA A PRESSO-FLESSIONE |       |           |         |    |       |       |      |     |     | VERIFICA A TAGLIO E TORSIONE |          |       |       |       |           |       |       |     |      |     |     |      |
|------|-------|----|-----|-----------------------------|-------|-----------|---------|----|-------|-------|------|-----|-----|------------------------------|----------|-------|-------|-------|-----------|-------|-------|-----|------|-----|-----|------|
|      |       |    |     | Iniz                        | Iniz. | r         | Sez     | o  | M Exd | M Eyd | N Ed | x/  | sf% | sc%                          | Area cmq | Co    | V Exd | V Eyd | T Sdu     | V Rxd | V Ryd | TRd | TRld | Coe | Coe | ALon |
| Fin. | Final | a  | Bas | n                           | Co    | (kN*10)*m | (kN*10) | /d | 100   | 100   | sup  | inf | mb  | kN*10                        | kN*10    | kN10m | kN*10 | kN*10 | (kN*10)*m | Cls   | Sta   | cmq | Pas  | Lun | Fi  |      |
| 19   | 2.00  | 1  | 1   | 20                          | -0.9  | 0.0       | 0.0     | 23 | 6     | 2     | 3.1  | 3.1 | 23  | 0.0                          | 1.4      | 0.0   | 16.6  | 16.6  | 1.9       | 0.0   | 8     | 2   | 0.0  | 6   | 30  | 10   |
| 24   | 2.00  | 30 | 3   | 30                          | 0.5   | 0.0       | 0.0     | 23 | 4     | 1     | 3.1  | 3.1 | 15  | 0.0                          | -1.3     | 0.0   | 16.6  | 16.6  | 1.9       | 0.0   | 8     | 7   | 0.0  | 20  | 345 | 10   |
| 2.5  |       | 30 | 5   | 15                          | -1.1  | 0.0       | 0.0     | 24 | 7     | 3     | 3.1  | 3.1 | 15  | 0.0                          | -1.5     | 0.0   | 16.6  | 16.6  | 1.9       | 0.0   | 9     | 3   | 0.0  | 6   | 30  | 10   |
| 24   | 2.00  | 1  | 1   | 25                          | -1.1  | 0.0       | 0.0     | 24 | 7     | 3     | 3.1  | 3.1 | 25  | 0.0                          | 1.5      | 0.0   | 16.6  | 16.6  | 1.9       | 0.0   | 9     | 3   | 0.0  | 6   | 30  | 10   |
| 21   | 2.00  | 30 | 3   | 20                          | 0.5   | 0.0       | 0.0     | 23 | 4     | 1     | 3.1  | 3.1 | 23  | 0.0                          | 1.3      | 0.0   | 16.6  | 16.6  | 1.9       | 0.0   | 8     | 7   | 0.0  | 20  | 345 | 10   |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - ELEVAZIONE

| Filo | Quota | T     | C  | VERIFICA A PRESSO-FLESSIONE |      |     |       |       |       |       |      |      |     | VERIFICA A TAGLIO E TORSIONE |     |       |       |       |       |       |           |      |     |     |      |        |    |     |    |
|------|-------|-------|----|-----------------------------|------|-----|-------|-------|-------|-------|------|------|-----|------------------------------|-----|-------|-------|-------|-------|-------|-----------|------|-----|-----|------|--------|----|-----|----|
|      |       |       |    | Iniz                        | Fin. | Sez | Co    | M Exd | M Eyd | N Ed  | x/d  | s/f% | sc% | Area cmq                     | Co  | V Exd | V Eyd | T Sdu | V Rxd | V Ryd | TRd       | TRld | Coe | Coe | ALon | Staffe |    |     |    |
| Ctgθ | Iniz. | Final | Al | Bas                         | n    | Co  | M Exd | M Eyd | N Ed  | x/d   | s/f% | sc%  | sup | inf                          | mb  | kN*10 | kN*10 | kN10m | kN*10 | kN*10 | (kN*10)*m | Cls  | Sta | cmq | Pas  | Lun    | Fi |     |    |
|      | 2.5   |       |    | 30                          | 5    | 30  |       | -0.9  | 0.0   | 0.0   | 23   | 6    | 2   | 3.1                          | 3.1 | 15    | 0.0   | -1.4  | 0.0   | 16.6  | 16.6      | 1.9  | 0.0 | 8   | 2    | 0.0    | 6  | 30  | 10 |
| 1    | 5.00  |       |    | 6                           | 1    | 31  |       | -4.8  | 0.1   | -8.3  | 31   | 6    | 3   | 6.4                          | 6.4 | 40    | -0.3  | 2.8   | 0.0   | 39.9  | 41.0      | 5.7  | 0.0 | 8   | 5    | 0.0    | 11 | 50  | 10 |
| 25   | 6.00  |       |    | 40                          | 3    | 43  |       | 3.8   | -0.1  | -4.1  | 28   | 5    | 2   | 6.4                          | 6.4 | 36    | 0.0   | -2.5  | 0.0   | 23.1  | 29.6      | 9.0  | 0.0 | 7   | 8    | 0.0    | 21 | 211 | 10 |
| 2.5  |       |       |    | 50                          | 5    | 31  |       | -0.7  | 0.0   | -7.2  | 95   | 0    | 1   | 6.4                          | 3.2 | 43    | -0.2  | -2.9  | 0.0   | 39.9  | 41.0      | 5.7  | 0.0 | 8   | 5    | 0.0    | 11 | 50  | 10 |
| 9    | 5.00  |       |    | 6                           | 1    | 41  |       | -5.0  | 0.0   | -8.4  | 31   | 6    | 3   | 6.4                          | 6.4 | 34    | 0.3   | 3.0   | 0.0   | 39.9  | 41.0      | 5.7  | 0.0 | 8   | 5    | 0.0    | 11 | 50  | 10 |
| 33   | 6.00  |       |    | 40                          | 3    | 37  |       | 4.0   | 0.1   | -3.6  | 27   | 6    | 3   | 6.4                          | 6.4 | 46    | 0.0   | -2.6  | 0.0   | 23.1  | 29.6      | 9.0  | 0.0 | 7   | 9    | 0.0    | 21 | 211 | 10 |
| 2.5  |       |       |    | 50                          | 5    | 46  |       | -0.7  | 0.0   | -2.7  | 47   | 0    | 0   | 6.4                          | 3.2 | 37    | 0.2   | -3.1  | 0.0   | 39.9  | 41.0      | 5.7  | 0.0 | 8   | 6    | 0.0    | 11 | 50  | 10 |
| 10   | 5.00  |       |    | 6                           | 1    | 43  |       | -4.7  | 0.5   | -9.2  | 33   | 5    | 3   | 6.4                          | 6.4 | 43    | 0.3   | 2.8   | 0.0   | 40.1  | 41.2      | 5.7  | 0.0 | 8   | 5    | 0.0    | 11 | 50  | 10 |
| 25   | 6.00  |       |    | 40                          | 3    | 31  |       | 3.9   | -0.1  | -4.5  | 29   | 5    | 3   | 6.4                          | 6.4 | 31    | -0.1  | -2.5  | 0.0   | 23.1  | 29.6      | 9.0  | 0.0 | 7   | 9    | 0.0    | 21 | 211 | 10 |
| 2.5  |       |       |    | 50                          | 5    | 43  |       | -0.7  | -0.5  | -8.2  | 89   | 0    | 1   | 6.4                          | 3.2 | 40    | 0.2   | -3.0  | 0.0   | 40.1  | 41.2      | 5.7  | 0.0 | 8   | 5    | 0.0    | 11 | 50  | 10 |
| 18   | 5.00  |       |    | 6                           | 1    | 37  |       | -4.9  | -0.5  | -10.5 | 34   | 5    | 3   | 6.4                          | 6.4 | 37    | -0.3  | 3.0   | 0.0   | 40.3  | 41.4      | 5.7  | 0.0 | 8   | 5    | 0.0    | 11 | 50  | 10 |
| 33   | 6.00  |       |    | 40                          | 3    | 41  |       | 4.1   | 0.1   | -5.2  | 29   | 6    | 3   | 6.4                          | 6.4 | 41    | 0.0   | -2.7  | 0.0   | 23.1  | 29.6      | 9.0  | 0.0 | 7   | 9    | 0.0    | 21 | 211 | 10 |
| 2.5  |       |       |    | 50                          | 5    | 37  |       | -0.7  | 0.5   | -9.5  | 95   | 0    | 1   | 6.4                          | 3.2 | 34    | -0.3  | -3.1  | 0.0   | 40.3  | 41.4      | 5.7  | 0.0 | 8   | 6    | 0.0    | 11 | 50  | 10 |
| 2    | 5.00  |       |    | 9                           | 1    | 31  |       | -2.2  | 0.5   | -8.8  | 31   | 8    | 5   | 4.8                          | 4.8 | 24    | -1.0  | 2.1   | 0.0   | 32.4  | 28.5      | 3.6  | 0.0 | 11  | 4    | 0.0    | 5  | 25  | 10 |
| 26   | 6.00  |       |    | 60                          | 3    | 43  |       | 1.3   | -0.3  | -9.8  | 41   | 3    | 3   | 4.8                          | 4.8 | 36    | 0.3   | -2.1  | 0.0   | 47.5  | 17.4      | 7.5  | 0.0 | 9   | 12   | 0.0    | 16 | 261 | 10 |
| 2.5  |       |       |    | 25                          | 5    | 41  |       | -1.0  | 0.4   | -6.5  | 39   | 2    | 2   | 4.8                          | 3.1 | 20    | 1.0   | -2.1  | 0.0   | 32.4  | 28.5      | 3.6  | 0.0 | 11  | 4    | 0.0    | 5  | 25  | 10 |
| 6    | 5.00  |       |    | 9                           | 1    | 41  |       | -2.2  | -0.4  | -9.3  | 32   | 8    | 5   | 4.8                          | 4.8 | 18    | 1.0   | 2.3   | 0.0   | 32.7  | 28.8      | 3.6  | 0.0 | 11  | 5    | 0.0    | 5  | 25  | 10 |
| 30   | 6.00  |       |    | 60                          | 3    | 37  |       | 1.3   | 0.2   | -12.3 | 47   | 2    | 3   | 4.8                          | 4.8 | 37    | 0.2   | -2.3  | 0.0   | 47.5  | 17.4      | 7.5  | 0.0 | 10  | 13   | 0.0    | 16 | 261 | 10 |
| 2.5  |       |       |    | 25                          | 5    | 31  |       | -1.1  | -0.4  | -7.5  | 39   | 2    | 2   | 4.8                          | 3.1 | 30    | -1.0  | -2.4  | 0.0   | 32.7  | 28.8      | 3.6  | 0.0 | 11  | 5    | 0.0    | 5  | 25  | 10 |
| 7    | 5.00  |       |    | 9                           | 1    | 41  |       | -2.3  | -0.3  | -9.4  | 31   | 8    | 5   | 4.8                          | 4.8 | 18    | 1.0   | 2.3   | 0.0   | 32.7  | 28.8      | 3.6  | 0.0 | 11  | 5    | 0.0    | 5  | 25  | 10 |
| 31   | 6.00  |       |    | 60                          | 3    | 37  |       | 1.4   | 0.2   | -11.9 | 45   | 2    | 3   | 4.8                          | 4.8 | 37    | 0.3   | -2.3  | 0.0   | 47.5  | 17.4      | 7.5  | 0.0 | 10  | 13   | 0.0    | 16 | 261 | 10 |
| 2.5  |       |       |    | 25                          | 5    | 31  |       | -1.1  | -0.5  | -7.2  | 38   | 3    | 2   | 4.8                          | 3.1 | 21    | 1.0   | -2.4  | 0.0   | 32.7  | 28.8      | 3.6  | 0.0 | 11  | 5    | 0.0    | 5  | 25  | 10 |
| 8    | 5.00  |       |    | 9                           | 1    | 41  |       | -2.3  | -0.4  | -12.1 | 34   | 7    | 5   | 4.8                          | 4.8 | 25    | -1.0  | 2.3   | 0.0   | 32.5  | 28.7      | 3.6  | 0.0 | 11  | 5    | 0.0    | 5  | 25  | 10 |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - ELEVAZIONE

| Filo | Quota | T   | r | C  | VERIFICA A PRESSO-FLESSIONE |           |       |     |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |
|------|-------|-----|---|----|-----------------------------|-----------|-------|-----|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|
|      |       |     |   |    | Iniz                        | Final     | a     | Bas | n   | Co  | M Exd | M Eyd | N Ed | x/    | s%                           | εc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe |
| Ctgθ | t     | Alt | c | mb | cm                          | (kN*10)*m | kN*10 | /d  | 100 | 100 | sup   | inf   | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |
| 32   | 6.00  | 60  | 3 | 37 | 1.4                         | 0.2       | -7.8  | 35  | 4   | 3   | 4.8   | 4.8   | 37   | 0.3   | -2.2                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 10    | 13    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 46 | -1.1                        | 0.5       | -6.9  | 38  | 2   | 2   | 4.8   | 3.1   | 21   | 0.9   | -2.3                         | 0.0   | 32.5     | 28.7  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |
| 3    | 5.00  | 9   | 1 | 31 | -2.3                        | 0.2       | -12.3 | 34  | 7   | 5   | 4.8   | 4.8   | 24   | -1.1  | 2.3                          | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |
| 27   | 6.00  | 60  | 3 | 43 | 1.4                         | -0.4      | -8.2  | 36  | 4   | 3   | 4.8   | 4.8   | 43   | -0.4  | -2.3                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 10    | 13    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 43 | -1.1                        | 0.7       | -7.3  | 39  | 3   | 2   | 4.8   | 3.1   | 27   | -1.1  | -2.4                         | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 12    | 5     | 0.0   | 5   | 25   | 10  |
| 4    | 5.00  | 9   | 1 | 31 | -2.3                        | 0.4       | -11.9 | 34  | 7   | 5   | 4.8   | 4.8   | 15   | 0.9   | 2.6                          | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 12    | 5     | 0.0   | 5   | 25   | 10  |
| 28   | 6.00  | 60  | 3 | 43 | 1.4                         | -0.2      | -7.7  | 34  | 4   | 3   | 4.8   | 4.8   | 43   | -0.3  | -2.5                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 11    | 14    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 36 | -1.2                        | -0.4      | -6.8  | 35  | 3   | 3   | 4.8   | 3.1   | 20   | 0.9   | -2.6                         | 0.0   | 32.6     | 28.7  | 3.6       | 0.0   | 12    | 5     | 0.0   | 5   | 25   | 10  |
| 5    | 5.00  | 9   | 1 | 34 | -2.2                        | 0.7       | -12.6 | 35  | 6   | 5   | 4.8   | 4.8   | 15   | 1.0   | 2.4                          | 0.0   | 32.8     | 28.9  | 3.6       | 0.0   | 12    | 5     | 0.0   | 5   | 25   | 10  |
| 29   | 6.00  | 60  | 3 | 37 | 1.3                         | -0.2      | -8.7  | 38  | 3   | 3   | 4.8   | 4.8   | 35   | 0.4   | -2.3                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 10    | 13    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 37 | -1.2                        | -0.6      | -7.9  | 39  | 3   | 2   | 4.8   | 3.1   | 20   | 1.0   | -2.5                         | 0.0   | 32.8     | 28.9  | 3.6       | 0.0   | 12    | 5     | 0.0   | 5   | 25   | 10  |
| 11   | 5.00  | 9   | 1 | 43 | -2.2                        | 0.6       | -7.8  | 30  | 8   | 5   | 4.8   | 4.8   | 27   | 1.0   | 2.1                          | 0.0   | 32.2     | 28.3  | 3.6       | 0.0   | 11    | 4     | 0.0   | 5   | 25   | 10  |
| 26   | 6.00  | 60  | 3 | 31 | 1.3                         | -0.3      | -8.7  | 37  | 3   | 3   | 4.8   | 4.8   | 31   | -0.3  | -2.1                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 10    | 12    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 37 | -1.0                        | 0.4       | -5.4  | 35  | 3   | 2   | 4.8   | 3.1   | 15   | -1.0  | -2.2                         | 0.0   | 32.2     | 28.3  | 3.6       | 0.0   | 11    | 4     | 0.0   | 5   | 25   | 10  |
| 15   | 5.00  | 9   | 1 | 37 | -2.2                        | -0.5      | -7.9  | 30  | 8   | 5   | 4.8   | 4.8   | 21   | -0.9  | 2.3                          | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |
| 30   | 6.00  | 60  | 3 | 41 | 1.4                         | 0.3       | -10.8 | 43  | 2   | 3   | 4.8   | 4.8   | 41   | 0.3   | -2.3                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 10    | 13    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 43 | -1.1                        | -0.5      | -6.0  | 35  | 3   | 2   | 4.8   | 3.1   | 25   | 1.0   | -2.4                         | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |
| 16   | 5.00  | 9   | 1 | 37 | -2.2                        | -0.6      | -8.0  | 30  | 8   | 5   | 4.8   | 4.8   | 21   | -1.0  | 2.3                          | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |
| 31   | 6.00  | 60  | 3 | 41 | 1.4                         | 0.3       | -10.6 | 42  | 3   | 3   | 4.8   | 4.8   | 41   | 0.3   | -2.3                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 10    | 13    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 36 | -1.1                        | 0.5       | -5.9  | 35  | 3   | 2   | 4.8   | 3.1   | 16   | -1.0  | -2.3                         | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |
| 17   | 5.00  | 9   | 1 | 37 | -2.3                        | -0.5      | -11.5 | 33  | 7   | 5   | 4.8   | 4.8   | 21   | -1.0  | 2.3                          | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |
| 32   | 6.00  | 60  | 3 | 41 | 1.4                         | 0.3       | -7.3  | 33  | 4   | 3   | 4.8   | 4.8   | 41   | 0.3   | -2.3                         | 0.0   | 47.5     | 17.4  | 7.5       | 0.0   | 10    | 13    | 0.0   | 16  | 261  | 10  |
| 2.5  |       | 25  | 5 | 34 | -1.1                        | 0.4       | -6.3  | 36  | 3   | 2   | 4.8   | 3.1   | 25   | 1.0   | -2.3                         | 0.0   | 32.4     | 28.6  | 3.6       | 0.0   | 11    | 5     | 0.0   | 5   | 25   | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - ELEVAZIONE

| Filo | Quota | T   | C  | VERIFICA A PRESSO-FLESSIONE |      |      |       |    |     |    |     |       |       | VERIFICA A TAGLIO E TORSIONE |      |     |      |          |     |       |       |       |       |       |     |      |     |     |      |        |     |    |
|------|-------|-----|----|-----------------------------|------|------|-------|----|-----|----|-----|-------|-------|------------------------------|------|-----|------|----------|-----|-------|-------|-------|-------|-------|-----|------|-----|-----|------|--------|-----|----|
|      |       |     |    | Iniz                        | Fin. | Tr   | Sez   | o  | Bas | n  | Co  | M Exd | M Eyd | N Ed                         | x/   | sF% | sc%  | Area cmq | Co  | V Exd | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe | Coe | ALon | Staffe |     |    |
| Ctgθ | Final | Alt | cm | cm                          | cm   | cm   | cm    | cm | cm  | cm | cm  | cm    | cm    | cm                           | cm   | cm  | cm   | cm       | cm  | cm    | cm    | cm    | cm    | cm    | cm  | cm   | cm  | cm  | cm   | Pas    | Lun | Fi |
| 12   | 5.00  | 9   | 1  | 43                          | -2.2 | 0.7  | -11.9 | 34 | 7   | 5  | 4.8 | 4.8   | 27    | 1.1                          | 2.3  | 0.0 | 32.5 | 28.6     | 3.6 | 0.0   | 11    | 5     | 0.0   | 5     | 25  | 10   |     |     |      |        |     |    |
| 27   | 6.00  | 60  | 3  | 31                          | 1.4  | -0.2 | -7.6  | 34 | 4   | 3  | 4.8 | 4.8   | 39    | 0.4                          | -2.3 | 0.0 | 47.5 | 17.4     | 7.5 | 0.0   | 10    | 13    | 0.0   | 16    | 261 | 10   |     |     |      |        |     |    |
| 2.5  |       | 25  | 5  | 31                          | -1.1 | 0.2  | -6.8  | 37 | 3   | 2  | 4.8 | 3.1   | 23    | 1.1                          | -2.4 | 0.0 | 32.5 | 28.6     | 3.6 | 0.0   | 12    | 5     | 0.0   | 5     | 25  | 10   |     |     |      |        |     |    |
| 13   | 5.00  | 9   | 1  | 43                          | -2.3 | 0.5  | -14.7 | 37 | 6   | 5  | 4.8 | 4.8   | 27    | 0.9                          | 2.6  | 0.0 | 33.1 | 29.2     | 3.6 | 0.0   | 12    | 5     | 0.0   | 5     | 25  | 10   |     |     |      |        |     |    |
| 28   | 6.00  | 60  | 3  | 31                          | 1.4  | -0.3 | -10.6 | 41 | 3   | 3  | 4.8 | 4.8   | 31    | -0.3                         | -2.5 | 0.0 | 47.5 | 17.4     | 7.5 | 0.0   | 10    | 14    | 0.0   | 16    | 261 | 10   |     |     |      |        |     |    |
| 2.5  |       | 25  | 5  | 40                          | -1.2 | -0.4 | -9.6  | 43 | 2   | 3  | 4.8 | 3.1   | 15    | -0.9                         | -2.7 | 0.0 | 33.1 | 29.2     | 3.6 | 0.0   | 12    | 5     | 0.0   | 5     | 25  | 10   |     |     |      |        |     |    |
| 14   | 5.00  | 9   | 1  | 46                          | -2.1 | 0.3  | -12.2 | 35 | 6   | 5  | 4.8 | 4.8   | 19    | -1.0                         | 2.4  | 0.0 | 32.6 | 28.8     | 3.6 | 0.0   | 12    | 5     | 0.0   | 5     | 25  | 10   |     |     |      |        |     |    |
| 29   | 6.00  | 60  | 3  | 41                          | 1.3  | 0.2  | -8.2  | 36 | 3   | 3  | 4.8 | 4.8   | 31    | -0.4                         | -2.3 | 0.0 | 47.5 | 17.4     | 7.5 | 0.0   | 10    | 13    | 0.0   | 16    | 261 | 10   |     |     |      |        |     |    |
| 2.5  |       | 25  | 5  | 41                          | -1.1 | -0.3 | -7.4  | 38 | 3   | 2  | 4.8 | 3.1   | 15    | -1.0                         | -2.5 | 0.0 | 32.6 | 28.8     | 3.6 | 0.0   | 12    | 5     | 0.0   | 5     | 25  | 10   |     |     |      |        |     |    |
| 1    | 5.00  | 5   | 1  | 18                          | -2.2 | 0.0  | 0.0   | 23 | 7   | 2  | 5.1 | 5.1   | 18    | 0.0                          | 1.8  | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 6     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 2    | 5.00  | 40  | 3  | 30                          | 1.2  | 0.0  | 0.0   | 23 | 4   | 1  | 5.1 | 5.1   | 30    | 0.0                          | -1.8 | 0.0 | 23.1 | 23.1     | 6.8 | 0.0   | 6     | 8     | 0.0   | 21    | 195 | 10   |     |     |      |        |     |    |
| 2.5  |       | 40  | 5  | 30                          | -2.0 | 0.0  | 0.0   | 23 | 6   | 2  | 5.1 | 5.1   | 30    | 0.0                          | -2.0 | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 6     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 2    | 5.00  | 5   | 1  | 20                          | -1.7 | 0.0  | 0.0   | 23 | 5   | 2  | 5.1 | 5.1   | 18    | 0.0                          | 1.7  | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 5     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 3    | 5.00  | 40  | 3  | 30                          | -0.9 | 0.0  | 0.0   | 23 | 2   | 1  | 5.1 | 5.1   | 30    | 0.0                          | -1.5 | 0.0 | 23.1 | 23.1     | 6.8 | 0.0   | 5     | 6     | 0.0   | 21    | 195 | 10   |     |     |      |        |     |    |
| 2.5  |       | 40  | 5  | 30                          | -1.9 | 0.0  | 0.0   | 23 | 6   | 2  | 5.1 | 5.1   | 30    | 0.0                          | -1.6 | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 5     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 3    | 5.00  | 5   | 1  | 18                          | -1.9 | 0.0  | 0.0   | 23 | 6   | 2  | 5.1 | 5.1   | 18    | 0.0                          | 1.5  | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 5     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 4    | 5.00  | 40  | 3  | 18                          | 0.7  | 0.0  | 0.0   | 23 | 2   | 1  | 5.1 | 5.1   | 18    | 0.0                          | 1.4  | 0.0 | 23.1 | 23.1     | 6.8 | 0.0   | 4     | 6     | 0.0   | 21    | 300 | 10   |     |     |      |        |     |    |
| 2.5  |       | 40  | 5  | 30                          | -1.6 | 0.0  | 0.0   | 23 | 5   | 2  | 5.1 | 5.1   | 30    | 0.0                          | -1.4 | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 5     | 2     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 4    | 5.00  | 5   | 1  | 18                          | -1.6 | 0.0  | 0.0   | 23 | 5   | 2  | 5.1 | 5.1   | 17    | 0.0                          | 1.4  | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 4     | 2     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 5    | 5.00  | 40  | 3  | 30                          | 0.7  | 0.0  | 0.0   | 23 | 2   | 1  | 5.1 | 5.1   | 24    | 0.0                          | -1.4 | 0.0 | 23.1 | 23.1     | 6.8 | 0.0   | 4     | 6     | 0.0   | 21    | 300 | 10   |     |     |      |        |     |    |
| 2.5  |       | 40  | 5  | 30                          | -2.0 | 0.0  | 0.0   | 23 | 6   | 2  | 5.1 | 5.1   | 24    | 0.0                          | -1.5 | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 5     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 5    | 5.00  | 5   | 1  | 18                          | -1.9 | 0.0  | 0.0   | 23 | 6   | 2  | 5.1 | 5.1   | 18    | 0.0                          | 1.6  | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 5     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |
| 6    | 5.00  | 40  | 3  | 30                          | 0.8  | 0.0  | 0.0   | 23 | 2   | 1  | 5.1 | 5.1   | 30    | 0.0                          | -1.4 | 0.0 | 23.1 | 23.1     | 6.8 | 0.0   | 5     | 6     | 0.0   | 21    | 240 | 10   |     |     |      |        |     |    |
| 2.5  |       | 40  | 5  | 30                          | -1.9 | 0.0  | 0.0   | 23 | 6   | 2  | 5.1 | 5.1   | 30    | 0.0                          | -1.6 | 0.0 | 30.9 | 30.9     | 4.3 | 0.0   | 5     | 3     | 0.0   | 8     | 40  | 10   |     |     |      |        |     |    |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - ELEVAZIONE

| Filo | Quota | T   | r   | C  | VERIFICA A PRESSO-FLESSIONE |       |       |      |     |       |       |          |       |       | VERIFICA A TAGLIO E TORSIONE |          |       |           |       |       |       |       |      |        |     |     |
|------|-------|-----|-----|----|-----------------------------|-------|-------|------|-----|-------|-------|----------|-------|-------|------------------------------|----------|-------|-----------|-------|-------|-------|-------|------|--------|-----|-----|
|      |       |     |     |    | Sez                         | o     | Bas   | n    | Co  | M Exd | M Eyd | N Ed     | x/    | sF%   | εc%                          | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd  | TRld   | Coe | Coe |
| Fin. | Final | a   | Bas | n  | Co                          | M Exd | M Eyd | N Ed | x/  | sF%   | εc%   | Area cmq | Co    | V Exd | V Eyd                        | T Sdu    | V Rxd | V Ryd     | TRd   | TRld  | Coe   | Coe   | ALon | Staffe |     |     |
| Ctgθ | t     | Alt | c   | mb | (kN*10)*m                   | kN*10 | /d    | 100  | 100 | sup   | inf   | mb       | kN*10 | kN*10 | kN10m                        | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun  | Fi     |     |     |
| 6    | 5.00  | 5   | 1   | 18 | -1.7                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 18    | 0.0   | 1.5                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 2     | 0.0  | 8      | 40  | 10  |
| 7    | 5.00  | 40  | 3   | 18 | 0.7                         | 0.0   | 0.0   | 23   | 2   | 1     | 5.1   | 5.1      | 30    | 0.0   | -1.3                         | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 4     | 6     | 0.0  | 21     | 260 | 10  |
| 2.5  |       | 40  | 5   | 30 | -1.8                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 24    | 0.0   | -1.5                         | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 2     | 0.0  | 8      | 40  | 10  |
| 7    | 5.00  | 5   | 1   | 18 | -1.8                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 18    | 0.0   | 1.5                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 3     | 0.0  | 8      | 40  | 10  |
| 8    | 5.00  | 40  | 3   | 30 | 0.7                         | 0.0   | 0.0   | 23   | 2   | 1     | 5.1   | 5.1      | 18    | 0.0   | 1.4                          | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 4     | 6     | 0.0  | 21     | 230 | 10  |
| 2.5  |       | 40  | 5   | 30 | -1.7                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 30    | 0.0   | -1.5                         | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 3     | 0.0  | 8      | 40  | 10  |
| 8    | 5.00  | 5   | 1   | 18 | -2.0                        | 0.0   | 0.0   | 23   | 6   | 2     | 5.1   | 5.1      | 18    | 0.0   | 1.8                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 9    | 5.00  | 40  | 3   | 18 | 1.1                         | 0.0   | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 18    | 0.0   | 1.7                          | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 5     | 7     | 0.0  | 21     | 230 | 10  |
| 2.5  |       | 40  | 5   | 30 | -2.2                        | 0.0   | 0.0   | 23   | 6   | 2     | 5.1   | 5.1      | 30    | 0.0   | -1.7                         | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 10   | 5.00  | 5   | 1   | 21 | -2.3                        | 0.0   | 0.0   | 23   | 7   | 2     | 5.1   | 5.1      | 15    | 0.0   | 1.9                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 11   | 5.00  | 40  | 3   | 25 | 1.1                         | 0.0   | 0.0   | 23   | 3   | 1     | 5.1   | 5.1      | 21    | 0.0   | 1.7                          | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 6     | 7     | 0.0  | 21     | 195 | 10  |
| 2.5  |       | 40  | 5   | 25 | -1.8                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 25    | 0.0   | -1.8                         | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 6     | 3     | 0.0  | 8      | 40  | 10  |
| 11   | 5.00  | 5   | 1   | 21 | -1.6                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 15    | 0.0   | 1.6                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 3     | 0.0  | 8      | 40  | 10  |
| 12   | 5.00  | 40  | 3   | 21 | 0.8                         | 0.0   | 0.0   | 23   | 2   | 1     | 5.1   | 5.1      | 15    | 0.0   | 1.4                          | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 5     | 6     | 0.0  | 21     | 195 | 10  |
| 2.5  |       | 40  | 5   | 25 | -1.7                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 25    | 0.0   | -1.6                         | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 3     | 0.0  | 8      | 40  | 10  |
| 12   | 5.00  | 5   | 1   | 21 | -1.7                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 21    | 0.0   | 1.4                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 2     | 0.0  | 8      | 40  | 10  |
| 13   | 5.00  | 40  | 3   | 21 | 0.7                         | 0.0   | 0.0   | 23   | 2   | 1     | 5.1   | 5.1      | 25    | 0.0   | -1.3                         | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 4     | 6     | 0.0  | 21     | 300 | 10  |
| 2.5  |       | 40  | 5   | 25 | -1.8                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 25    | 0.0   | -1.4                         | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 2     | 0.0  | 8      | 40  | 10  |
| 13   | 5.00  | 5   | 1   | 21 | -1.8                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 15    | 0.0   | 1.4                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 2     | 0.0  | 8      | 40  | 10  |
| 14   | 5.00  | 40  | 3   | 25 | 0.7                         | 0.0   | 0.0   | 23   | 2   | 1     | 5.1   | 5.1      | 15    | 0.0   | 1.3                          | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 4     | 6     | 0.0  | 21     | 300 | 10  |
| 2.5  |       | 40  | 5   | 25 | -1.7                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 25    | 0.0   | -1.4                         | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 2     | 0.0  | 8      | 40  | 10  |
| 14   | 5.00  | 5   | 1   | 21 | -1.8                        | 0.0   | 0.0   | 23   | 5   | 2     | 5.1   | 5.1      | 15    | 0.0   | 1.5                          | 0.0      | 30.9  | 30.9      | 4.3   | 0.0   | 5     | 3     | 0.0  | 8      | 40  | 10  |
| 15   | 5.00  | 40  | 3   | 25 | 0.7                         | 0.0   | 0.0   | 23   | 2   | 1     | 5.1   | 5.1      | 15    | 0.0   | 1.3                          | 0.0      | 23.1  | 23.1      | 6.8   | 0.0   | 4     | 6     | 0.0  | 21     | 240 | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - ELEVAZIONE

| Filo | Quota | T   | r | C  | VERIFICA A PRESSO-FLESSIONE |           |       |      |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |     |     |      |        |
|------|-------|-----|---|----|-----------------------------|-----------|-------|------|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|-----|-----|------|--------|
|      |       |     |   |    | Iniz                        | Final     | a     | Bas  | n   | Co  | M Exd | M Eyd | N Ed | x/    | sF%                          | sc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe | Coe | ALon | Staffe |
| Ctgθ | t     | Alt | c | mb | cm                          | (kN*10)*m | kN*10 | /d   | 100 | 100 | sup   | inf   | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun | Fi   |     |     |      |        |
| 2.5  |       |     |   |    | 40                          | 5         | 25    | -1.8 | 0.0 | 0.0 | 23    | 5     | 2    | 5.1   | 5.1                          | 25    | 0.0      | -1.5  | 0.0       | 30.9  | 30.9  | 4.3   | 0.0   | 5   | 3    | 0.0 | 8   | 40   | 10     |
| 15   | 5.00  |     |   |    | 5                           | 1         | 21    | -1.7 | 0.0 | 0.0 | 23    | 5     | 2    | 5.1   | 5.1                          | 15    | 0.0      | 1.5   | 0.0       | 30.9  | 30.9  | 4.3   | 0.0   | 5   | 2    | 0.0 | 8   | 40   | 10     |
| 16   | 5.00  |     |   |    | 40                          | 3         | 21    | 0.7  | 0.0 | 0.0 | 23    | 2     | 1    | 5.1   | 5.1                          | 21    | 0.0      | 1.3   | 0.0       | 23.1  | 23.1  | 6.8   | 0.0   | 4   | 6    | 0.0 | 21  | 260  | 10     |
| 2.5  |       |     |   |    | 40                          | 5         | 25    | -1.7 | 0.0 | 0.0 | 23    | 5     | 2    | 5.1   | 5.1                          | 25    | 0.0      | -1.5  | 0.0       | 30.9  | 30.9  | 4.3   | 0.0   | 5   | 2    | 0.0 | 8   | 40   | 10     |
| 16   | 5.00  |     |   |    | 5                           | 1         | 21    | -1.7 | 0.0 | 0.0 | 23    | 5     | 2    | 5.1   | 5.1                          | 21    | 0.0      | 1.5   | 0.0       | 30.9  | 30.9  | 4.3   | 0.0   | 5   | 2    | 0.0 | 8   | 40   | 10     |
| 17   | 5.00  |     |   |    | 40                          | 3         | 25    | 0.7  | 0.0 | 0.0 | 23    | 2     | 1    | 5.1   | 5.1                          | 21    | 0.0      | 1.3   | 0.0       | 23.1  | 23.1  | 6.8   | 0.0   | 4   | 6    | 0.0 | 21  | 230  | 10     |
| 2.5  |       |     |   |    | 40                          | 5         | 25    | -1.6 | 0.0 | 0.0 | 23    | 5     | 2    | 5.1   | 5.1                          | 25    | 0.0      | -1.5  | 0.0       | 30.9  | 30.9  | 4.3   | 0.0   | 5   | 2    | 0.0 | 8   | 40   | 10     |
| 17   | 5.00  |     |   |    | 5                           | 1         | 21    | -1.9 | 0.0 | 0.0 | 23    | 6     | 2    | 5.1   | 5.1                          | 15    | 0.0      | 1.7   | 0.0       | 30.9  | 30.9  | 4.3   | 0.0   | 6   | 3    | 0.0 | 8   | 40   | 10     |
| 18   | 5.00  |     |   |    | 40                          | 3         | 21    | 1.1  | 0.0 | 0.0 | 23    | 3     | 1    | 5.1   | 5.1                          | 21    | 0.0      | 1.6   | 0.0       | 23.1  | 23.1  | 6.8   | 0.0   | 5   | 7    | 0.0 | 21  | 230  | 10     |
| 2.5  |       |     |   |    | 40                          | 5         | 25    | -2.2 | 0.0 | 0.0 | 23    | 6     | 2    | 5.1   | 5.1                          | 25    | 0.0      | -1.7  | 0.0       | 30.9  | 30.9  | 4.3   | 0.0   | 6   | 3    | 0.0 | 8   | 40   | 10     |
| 25   | 6.00  |     |   |    | 25                          | 1         | 30    | -0.8 | 0.0 | 0.0 | 28    | 5     | 2    | 4.8   | 4.9                          | 23    | 0.0      | 0.9   | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 3   | 2    | 0.0 | 5   | 25   | 10     |
| 26   | 6.00  |     |   |    | 60                          | 3         | 18    | 0.4  | 0.0 | 0.0 | 29    | 2     | 1    | 4.8   | 4.8                          | 15    | 0.0      | -0.8  | 0.0       | 47.5  | 17.4  | 7.5   | 0.0   | 3   | 5    | 0.0 | 16  | 285  | 10     |
| 2.5  |       |     |   |    | 25                          | 5         | 18    | -0.8 | 0.0 | 0.0 | 28    | 5     | 2    | 4.8   | 4.9                          | 15    | 0.0      | -0.9  | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 3   | 2    | 0.0 | 5   | 25   | 10     |
| 26   | 6.00  |     |   |    | 25                          | 1         | 30    | -0.8 | 0.0 | 0.0 | 28    | 5     | 2    | 4.8   | 4.9                          | 23    | 0.0      | 0.9   | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 3   | 2    | 0.0 | 5   | 25   | 10     |
| 27   | 6.00  |     |   |    | 60                          | 3         | 18    | 0.2  | 0.0 | 0.0 | 29    | 1     | 1    | 4.8   | 4.8                          | 15    | 0.0      | -0.8  | 0.0       | 47.5  | 17.4  | 7.5   | 0.0   | 3   | 5    | 0.0 | 16  | 265  | 10     |
| 2.5  |       |     |   |    | 25                          | 5         | 18    | -0.9 | 0.0 | 0.0 | 28    | 5     | 3    | 4.8   | 4.9                          | 15    | 0.0      | -0.9  | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 3   | 2    | 0.0 | 5   | 25   | 10     |
| 27   | 6.00  |     |   |    | 25                          | 1         | 24    | -0.9 | 0.0 | 0.0 | 28    | 6     | 3    | 4.8   | 4.9                          | 23    | 0.0      | 1.0   | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 4   | 2    | 0.0 | 5   | 25   | 10     |
| 28   | 6.00  |     |   |    | 60                          | 3         | 25    | 0.4  | 0.0 | 0.0 | 29    | 2     | 1    | 4.8   | 4.8                          | 15    | 0.0      | -0.9  | 0.0       | 47.5  | 17.4  | 7.5   | 0.0   | 3   | 5    | 0.0 | 16  | 370  | 10     |
| 2.5  |       |     |   |    | 25                          | 5         | 21    | -1.0 | 0.0 | 0.0 | 28    | 6     | 3    | 4.8   | 4.9                          | 15    | 0.0      | -1.0  | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 4   | 2    | 0.0 | 5   | 25   | 10     |
| 28   | 6.00  |     |   |    | 25                          | 1         | 27    | -1.0 | 0.0 | 0.0 | 28    | 6     | 3    | 4.8   | 4.9                          | 23    | 0.0      | 1.0   | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 4   | 2    | 0.0 | 5   | 25   | 10     |
| 29   | 6.00  |     |   |    | 60                          | 3         | 15    | 0.4  | 0.0 | 0.0 | 29    | 2     | 1    | 4.8   | 4.8                          | 15    | 0.0      | -0.9  | 0.0       | 47.5  | 17.4  | 7.5   | 0.0   | 3   | 5    | 0.0 | 16  | 370  | 10     |
| 2.5  |       |     |   |    | 25                          | 5         | 18    | -1.0 | 0.0 | 0.0 | 28    | 6     | 3    | 4.8   | 4.9                          | 15    | 0.0      | -1.0  | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 4   | 2    | 0.0 | 5   | 25   | 10     |
| 29   | 6.00  |     |   |    | 25                          | 1         | 25    | -0.9 | 0.0 | 0.0 | 28    | 5     | 3    | 4.8   | 4.9                          | 23    | 0.0      | 0.9   | 0.0       | 30.2  | 26.6  | 3.6   | 0.0   | 4   | 2    | 0.0 | 5   | 25   | 10     |



STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - ELEVAZIONE

| Filo | Quota | T   | r | C  | VERIFICA A PRESSO-FLESSIONE |       |     |     |     |     |       |       |       |       | VERIFICA A TAGLIO E TORSIONE |       |          |           |       |       |       |       |       |     |      |     |
|------|-------|-----|---|----|-----------------------------|-------|-----|-----|-----|-----|-------|-------|-------|-------|------------------------------|-------|----------|-----------|-------|-------|-------|-------|-------|-----|------|-----|
|      |       |     |   |    | Iniz                        | Final | a   | Bas | n   | Co  | M Exd | M Eyd | N Ed  | x/    | sf%                          | sc%   | Area cmq | Co        | V Exd | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe |
| Ctgθ | t     | Alt | c | mb | (kN*10)*m                   | kN*10 | /d  | 100 | 100 | sup | inf   | mb    | kN*10 | kN*10 | kN10m                        | kN*10 | kN*10    | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun   | Fi  |      |     |
| 30   | 6.00  | 60  | 3 | 20 | 0.3                         | 0.0   | 0.0 | 29  | 1   | 1   | 4.8   | 4.8   | 15    | 0.0   | -0.8                         | 0.0   | 47.5     | 17.4      | 7.5   | 0.0   | 3     | 5     | 0.0   | 16  | 310  | 10  |
| 2.5  |       | 25  | 5 | 21 | -0.9                        | 0.0   | 0.0 | 28  | 5   | 3   | 4.8   | 4.9   | 15    | 0.0   | -0.9                         | 0.0   | 30.2     | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 30   | 6.00  | 25  | 1 | 27 | -0.9                        | 0.0   | 0.0 | 28  | 5   | 3   | 4.8   | 4.9   | 23    | 0.0   | 0.9                          | 0.0   | 30.2     | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 31   | 6.00  | 60  | 3 | 15 | 0.3                         | 0.0   | 0.0 | 29  | 2   | 1   | 4.8   | 4.8   | 15    | 0.0   | -0.9                         | 0.0   | 47.5     | 17.4      | 7.5   | 0.0   | 3     | 5     | 0.0   | 16  | 330  | 10  |
| 2.5  |       | 25  | 5 | 15 | -0.9                        | 0.0   | 0.0 | 28  | 5   | 3   | 4.8   | 4.9   | 15    | 0.0   | -1.0                         | 0.0   | 30.2     | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 31   | 6.00  | 25  | 1 | 30 | -0.9                        | 0.0   | 0.0 | 28  | 5   | 3   | 4.8   | 4.9   | 27    | 0.0   | 0.9                          | 0.0   | 30.2     | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 32   | 6.00  | 60  | 3 | 30 | 0.3                         | 0.0   | 0.0 | 29  | 1   | 1   | 4.8   | 4.8   | 15    | 0.0   | -0.8                         | 0.0   | 47.5     | 17.4      | 7.5   | 0.0   | 3     | 5     | 0.0   | 16  | 300  | 10  |
| 2.5  |       | 25  | 5 | 18 | -0.9                        | 0.0   | 0.0 | 28  | 5   | 3   | 4.8   | 4.9   | 15    | 0.0   | -0.9                         | 0.0   | 30.2     | 26.6      | 3.6   | 0.0   | 3     | 2     | 0.0   | 5   | 25   | 10  |
| 32   | 6.00  | 25  | 1 | 27 | -0.8                        | 0.0   | 0.0 | 28  | 5   | 2   | 4.8   | 4.9   | 23    | 0.0   | 1.0                          | 0.0   | 30.2     | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |
| 33   | 6.00  | 60  | 3 | 27 | 0.4                         | 0.0   | 0.0 | 29  | 2   | 1   | 4.8   | 4.8   | 27    | 0.0   | 0.9                          | 0.0   | 47.5     | 17.4      | 7.5   | 0.0   | 3     | 5     | 0.0   | 16  | 320  | 10  |
| 2.5  |       | 25  | 5 | 15 | -0.9                        | 0.0   | 0.0 | 28  | 5   | 2   | 4.8   | 4.9   | 15    | 0.0   | -0.9                         | 0.0   | 30.2     | 26.6      | 3.6   | 0.0   | 4     | 2     | 0.0   | 5   | 25   | 10  |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - PILASTRI

| Filo | Quota | T   | r | C  | VERIFICA A PRESSO-FLESSIONE |       |      |     |     |     |       |       |       |       | VERIFICA A TAGLIO E TORSIONE |       |          |           |       |       |       |       |       |     |      |
|------|-------|-----|---|----|-----------------------------|-------|------|-----|-----|-----|-------|-------|-------|-------|------------------------------|-------|----------|-----------|-------|-------|-------|-------|-------|-----|------|
|      |       |     |   |    | Iniz                        | Final | a    | Bas | n   | Co  | M Exd | M Eyd | N Ed  | x/    | sf%                          | sc%   | Area cmq | Co        | V Exd | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld |
| Ctgθ | t     | Alt | c | mb | (kN*10)*m                   | kN*10 | /d   | 100 | 100 | b   | h     | mb    | kN*10 | kN*10 | kN10m                        | kN*10 | kN*10    | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun   | Fi  |      |
| 24   | 0.00  | 1   | 1 | 46 | -0.1                        | -0.1  | -3.7 | 0   | 1   | 3.8 | 3.8   | 37    | 0.0   | -0.1  | 0.0                          | 17.3  | 17.3     | 1.9       | 0.0   | 0     | 0     | 0.0   | 11    | 66  | 10   |
| 24   | 2.00  | 30  | 3 | 46 | -0.1                        | -0.1  | -3.5 | 0   | 0   | 3.8 | 3.8   | 37    | 0.0   | -0.1  | 0.0                          | 17.3  | 17.3     | 1.9       | 0.0   | 0     | 0     | 0.0   | 16    | 59  | 10   |
| 2.5  |       | 30  | 5 | 39 | 0.1                         | 0.1   | -3.3 | 0   | 0   | 3.8 | 3.8   | 37    | 0.0   | -0.1  | 0.0                          | 17.3  | 17.3     | 1.9       | 0.0   | 0     | 0     | 0.0   | 11    | 45  | 10   |
| 1    | 2.00  | 5   | 1 | 31 | -4.3                        | -0.6  | -6.2 | 8   | 5   | 6.0 | 5.1   | 40    | -0.4  | -3.3  | 0.0                          | 31.7  | 31.7     | 4.3       | 0.0   | 12    | 7     | 0.0   | 11    | 47  | 10   |
| 1    | 5.00  | 40  | 3 | 43 | 1.2                         | 0.1   | -3.7 | 1   | 1   | 6.3 | 4.8   | 40    | -0.4  | -3.3  | 0.0                          | 31.7  | 31.7     | 4.3       | 0.0   | 12    | 11    | 0.0   | 16    | 167 | 10   |
| 2.5  |       | 40  | 5 | 40 | 4.3                         | -0.4  | -4.3 | 8   | 5   | 6.4 | 4.6   | 40    | -0.4  | -3.3  | 0.0                          | 31.7  | 31.7     | 4.3       | 0.0   | 12    | 7     | 0.0   | 11    | 45  | 10   |
| 2    | 2.00  | 5   | 1 | 40 | -3.4                        | 0.7   | -6.9 | 6   | 4   | 6.4 | 4.7   | 24    | -1.7  | -1.4  | 0.0                          | 32.2  | 32.2     | 4.3       | 0.0   | 10    | 5     | 0.0   | 11    | 63  | 10   |
| 2    | 5.00  | 40  | 3 | 20 | 0.9                         | 0.6   | -6.6 | 1   | 1   | 6.3 | 4.8   | 24    | -1.7  | -1.4  | 0.0                          | 32.2  | 32.2     | 4.3       | 0.0   | 10    | 7     | 0.0   | 16    | 150 | 10   |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - PILASTRI

| Filo | Quota | T   | C  | VERIFICA A PRESSO-FLESSIONE |      |           |         |      |      |       |       |      |     | VERIFICA A TAGLIO E TORSIONE |       |          |       |       |           |       |       |       |     |      |     |     |      |
|------|-------|-----|----|-----------------------------|------|-----------|---------|------|------|-------|-------|------|-----|------------------------------|-------|----------|-------|-------|-----------|-------|-------|-------|-----|------|-----|-----|------|
|      |       |     |    | Iniz                        | Fin. | Sez       | Bas     | In   | Co   | M Exd | M Eyd | N Ed | x/  | sF%                          | sc%   | Area cmq | Co    | V Exd | V Eyd     | T Sdu | V Rxd | V Ryd | TRd | TRld | Coe | Coe | ALon |
| Ctgθ | Final | Alt | cm | cm                          | cm   | (kN*10)*m | (kN*10) | /d   | 100  | 100   | b     | h    | cm  | kN*10                        | kN*10 | kN10m    | kN*10 | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas | Lun  | Fi  |     |      |
| 2.5  |       |     |    | 40                          | 5    | 18        | 1.7     | 2.4  | -5.7 | 6     | 5     | 6.6  | 4.5 | 24                           | -1.7  | -1.4     | 0.0   | 32.2  | 32.2      | 4.3   | 0.0   | 10    | 5   | 0.0  | 11  | 47  | 10   |
| 3    | 2.00  |     |    | 5                           | 1    | 31        | -3.8    | -0.6 | -9.3 | 6     | 4     | 6.4  | 4.7 | 15                           | 1.7   | -1.6     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 10    | 6   | 0.0  | 11  | 65  | 10   |
| 3    | 5.00  |     |    | 40                          | 3    | 43        | 1.5     | 0.1  | -6.7 | 1     | 2     | 6.3  | 4.8 | 15                           | 1.7   | -1.6     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 10    | 8   | 0.0  | 16  | 150 | 10   |
| 2.5  |       |     |    | 40                          | 5    | 18        | 1.9     | 2.5  | -7.8 | 6     | 5     | 6.5  | 4.6 | 15                           | 1.7   | -1.6     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 10    | 6   | 0.0  | 11  | 45  | 10   |
| 4    | 2.00  |     |    | 5                           | 1    | 40        | -3.3    | 0.6  | -9.3 | 5     | 4     | 6.4  | 4.7 | 24                           | -1.5  | -1.5     | 0.0   | 32.5  | 32.5      | 4.3   | 0.0   | 9     | 5   | 0.0  | 11  | 64  | 10   |
| 4    | 5.00  |     |    | 40                          | 3    | 36        | 1.3     | -0.1 | -7.0 | 1     | 1     | 6.4  | 4.7 | 24                           | -1.5  | -1.5     | 0.0   | 32.5  | 32.5      | 4.3   | 0.0   | 9     | 8   | 0.0  | 16  | 150 | 10   |
| 2.5  |       |     |    | 40                          | 5    | 24        | 2.1     | -2.0 | -7.6 | 5     | 4     | 6.6  | 4.5 | 24                           | -1.5  | -1.5     | 0.0   | 32.5  | 32.5      | 4.3   | 0.0   | 9     | 5   | 0.0  | 11  | 46  | 10   |
| 5    | 2.00  |     |    | 5                           | 1    | 40        | -3.4    | 1.0  | -9.4 | 6     | 5     | 6.4  | 4.7 | 24                           | -1.9  | -1.4     | 0.0   | 32.5  | 32.5      | 4.3   | 0.0   | 10    | 5   | 0.0  | 11  | 65  | 10   |
| 5    | 5.00  |     |    | 40                          | 3    | 46        | 1.3     | 0.2  | -7.4 | 1     | 1     | 6.3  | 4.8 | 24                           | -1.9  | -1.4     | 0.0   | 32.5  | 32.5      | 4.3   | 0.0   | 10    | 8   | 0.0  | 16  | 150 | 10   |
| 2.5  |       |     |    | 40                          | 5    | 24        | 2.0     | -2.4 | -8.1 | 6     | 5     | 6.5  | 4.5 | 24                           | -1.9  | -1.4     | 0.0   | 32.5  | 32.5      | 4.3   | 0.0   | 10    | 5   | 0.0  | 11  | 45  | 10   |
| 6    | 2.00  |     |    | 5                           | 1    | 34        | -3.3    | -0.8 | -9.4 | 5     | 4     | 6.4  | 4.7 | 18                           | 1.6   | -1.4     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 9     | 5   | 0.0  | 11  | 63  | 10   |
| 6    | 5.00  |     |    | 40                          | 3    | 46        | 1.2     | 0.1  | -6.9 | 1     | 1     | 6.3  | 4.8 | 18                           | 1.6   | -1.4     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 9     | 7   | 0.0  | 16  | 152 | 10   |
| 2.5  |       |     |    | 40                          | 5    | 18        | 2.0     | 2.2  | -7.5 | 5     | 5     | 6.6  | 4.5 | 18                           | 1.6   | -1.4     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 9     | 5   | 0.0  | 11  | 45  | 10   |
| 7    | 2.00  |     |    | 5                           | 1    | 34        | -3.4    | -0.8 | -9.4 | 5     | 4     | 6.4  | 4.7 | 18                           | 1.6   | -1.4     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 9     | 5   | 0.0  | 11  | 63  | 10   |
| 7    | 5.00  |     |    | 40                          | 3    | 37        | 1.3     | -0.1 | -6.8 | 1     | 1     | 6.3  | 4.8 | 18                           | 1.6   | -1.4     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 9     | 8   | 0.0  | 16  | 152 | 10   |
| 2.5  |       |     |    | 40                          | 5    | 24        | 2.0     | -2.2 | -7.2 | 5     | 5     | 6.6  | 4.5 | 18                           | 1.6   | -1.4     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 9     | 5   | 0.0  | 11  | 45  | 10   |
| 8    | 2.00  |     |    | 5                           | 1    | 34        | -3.6    | -0.9 | -9.1 | 6     | 5     | 6.4  | 4.7 | 18                           | 1.7   | -1.5     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 10    | 5   | 0.0  | 11  | 63  | 10   |
| 8    | 5.00  |     |    | 40                          | 3    | 46        | 1.4     | 0.1  | -6.3 | 1     | 1     | 6.3  | 4.8 | 18                           | 1.7   | -1.5     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 10    | 8   | 0.0  | 16  | 151 | 10   |
| 2.5  |       |     |    | 40                          | 5    | 18        | 2.0     | 2.4  | -7.6 | 6     | 5     | 6.6  | 4.5 | 18                           | 1.7   | -1.5     | 0.0   | 32.4  | 32.4      | 4.3   | 0.0   | 10    | 5   | 0.0  | 11  | 46  | 10   |
| 9    | 2.00  |     |    | 5                           | 1    | 41        | -4.5    | 0.5  | -6.2 | 9     | 5     | 6.0  | 5.1 | 34                           | 0.4   | -3.4     | 0.0   | 31.8  | 31.8      | 4.3   | 0.0   | 12    | 8   | 0.0  | 11  | 48  | 10   |
| 9    | 5.00  |     |    | 40                          | 3    | 37        | 1.2     | -0.1 | -4.0 | 2     | 1     | 6.3  | 4.8 | 34                           | 0.4   | -3.4     | 0.0   | 31.8  | 31.8      | 4.3   | 0.0   | 12    | 11  | 0.0  | 16  | 167 | 10   |
| 2.5  |       |     |    | 40                          | 5    | 34        | 4.4     | 0.5  | -4.4 | 9     | 5     | 6.3  | 4.7 | 34                           | 0.4   | -3.4     | 0.0   | 31.8  | 31.8      | 4.3   | 0.0   | 12    | 8   | 0.0  | 11  | 45  | 10   |
| 10   | 2.00  |     |    | 5                           | 1    | 43        | 4.4     | 0.5  | -5.6 | 8     | 5     | 6.1  | 5.0 | 43                           | -0.3  | 3.3      | 0.0   | 31.8  | 31.8      | 4.3   | 0.0   | 11    | 8   | 0.0  | 11  | 47  | 10   |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - PILASTRI

| Filo | Quota | T   | r  | C  | VERIFICA A PRESSO-FLESSIONE |           |         |     |     |     |       |       |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |     |      |
|------|-------|-----|----|----|-----------------------------|-----------|---------|-----|-----|-----|-------|-------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|-----|------|
|      |       |     |    |    | Iniz                        | Final     | Sez     | Bas | n   | Co  | M Exd | M Eyd | N Ed | x/d   | s/f%                         | εc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd | TRld |
| Ctgθ | t     | Alt | cm | cm | cm                          | (kN*10)*m | (kN*10) | /d  | 100 | 100 | b     | h     | cm   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cl    | Sta   | cmq   | Pas   | Lun | Fi   |
| 10   | 5.00  | 40  | 3  | 31 | -1.0                        | -0.2      | -4.9    | 1   | 1   | 6.2 | 4.9   | 43    | -0.3 | 3.3   | 0.0                          | 31.8  | 31.8     | 4.3   | 0.0       | 11    | 11    | 0.0   | 16    | 167 | 10   |
| 2.5  |       | 40  | 5  | 36 | -4.0                        | 0.6       | -5.4    | 8   | 5   | 6.2 | 4.8   | 43    | -0.3 | 3.3   | 0.0                          | 31.8  | 31.8     | 4.3   | 0.0       | 11    | 8     | 0.0   | 11    | 45  | 10   |
| 11   | 2.00  | 5   | 1  | 43 | 3.4                         | 0.6       | -8.0    | 6   | 4   | 6.4 | 4.7   | 27    | -1.6 | 1.4   | 0.0                          | 32.2  | 32.2     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 63  | 10   |
| 11   | 5.00  | 40  | 3  | 31 | -1.2                        | -0.1      | -5.5    | 1   | 1   | 6.3 | 4.8   | 27    | -1.6 | 1.4   | 0.0                          | 32.2  | 32.2     | 4.3   | 0.0       | 9     | 7     | 0.0   | 16    | 150 | 10   |
| 2.5  |       | 40  | 5  | 27 | -1.8                        | -2.2      | -6.5    | 6   | 4   | 6.6 | 4.5   | 27    | -1.6 | 1.4   | 0.0                          | 32.2  | 32.2     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 47  | 10   |
| 12   | 2.00  | 5   | 1  | 43 | 3.5                         | 0.6       | -9.0    | 5   | 4   | 6.4 | 4.7   | 27    | -1.4 | 1.5   | 0.0                          | 32.4  | 32.4     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 63  | 10   |
| 12   | 5.00  | 40  | 3  | 31 | -1.2                        | -0.1      | -6.5    | 1   | 1   | 6.3 | 4.8   | 27    | -1.4 | 1.5   | 0.0                          | 32.4  | 32.4     | 4.3   | 0.0       | 9     | 8     | 0.0   | 16    | 151 | 10   |
| 2.5  |       | 40  | 5  | 21 | -1.7                        | 2.2       | -6.7    | 5   | 4   | 6.6 | 4.5   | 27    | -1.4 | 1.5   | 0.0                          | 32.4  | 32.4     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 45  | 10   |
| 13   | 2.00  | 5   | 1  | 43 | 3.5                         | 0.7       | -10.3   | 5   | 4   | 6.4 | 4.7   | 21    | 1.5  | 1.5   | 0.0                          | 32.7  | 32.7     | 4.3   | 0.0       | 9     | 6     | 0.0   | 11    | 64  | 10   |
| 13   | 5.00  | 40  | 3  | 31 | -1.2                        | -0.2      | -8.1    | 1   | 1   | 6.3 | 4.8   | 21    | 1.5  | 1.5   | 0.0                          | 32.7  | 32.7     | 4.3   | 0.0       | 9     | 8     | 0.0   | 16    | 151 | 10   |
| 2.5  |       | 40  | 5  | 21 | -2.1                        | 2.0       | -8.6    | 5   | 4   | 6.6 | 4.5   | 21    | 1.5  | 1.5   | 0.0                          | 32.7  | 32.7     | 4.3   | 0.0       | 9     | 6     | 0.0   | 11    | 45  | 10   |
| 14   | 2.00  | 5   | 1  | 37 | 3.2                         | -0.8      | -9.3    | 5   | 4   | 6.4 | 4.7   | 21    | 1.5  | 1.4   | 0.0                          | 32.5  | 32.5     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 63  | 10   |
| 14   | 5.00  | 40  | 3  | 41 | -1.1                        | 0.1       | -7.0    | 1   | 1   | 6.3 | 4.8   | 21    | 1.5  | 1.4   | 0.0                          | 32.5  | 32.5     | 4.3   | 0.0       | 9     | 7     | 0.0   | 16    | 152 | 10   |
| 2.5  |       | 40  | 5  | 27 | -1.9                        | -2.1      | -7.3    | 5   | 4   | 6.6 | 4.5   | 21    | 1.5  | 1.4   | 0.0                          | 32.5  | 32.5     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 45  | 10   |
| 15   | 2.00  | 5   | 1  | 37 | 3.3                         | -0.8      | -8.9    | 5   | 4   | 6.4 | 4.7   | 21    | 1.6  | 1.4   | 0.0                          | 32.4  | 32.4     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 63  | 10   |
| 15   | 5.00  | 40  | 3  | 41 | -1.2                        | 0.1       | -6.4    | 1   | 1   | 6.3 | 4.8   | 21    | 1.6  | 1.4   | 0.0                          | 32.4  | 32.4     | 4.3   | 0.0       | 9     | 7     | 0.0   | 16    | 152 | 10   |
| 2.5  |       | 40  | 5  | 21 | -1.9                        | 2.2       | -7.3    | 5   | 4   | 6.6 | 4.5   | 21    | 1.6  | 1.4   | 0.0                          | 32.4  | 32.4     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 45  | 10   |
| 16   | 2.00  | 5   | 1  | 37 | 3.4                         | -0.8      | -8.9    | 6   | 4   | 6.4 | 4.7   | 21    | 1.5  | 1.5   | 0.0                          | 32.3  | 32.3     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 63  | 10   |
| 16   | 5.00  | 40  | 3  | 41 | -1.2                        | 0.1       | -6.3    | 1   | 1   | 6.3 | 4.8   | 21    | 1.5  | 1.5   | 0.0                          | 32.3  | 32.3     | 4.3   | 0.0       | 9     | 8     | 0.0   | 16    | 152 | 10   |
| 2.5  |       | 40  | 5  | 27 | -1.8                        | -2.1      | -7.1    | 5   | 4   | 6.6 | 4.5   | 21    | 1.5  | 1.5   | 0.0                          | 32.3  | 32.3     | 4.3   | 0.0       | 9     | 5     | 0.0   | 11    | 45  | 10   |
| 17   | 2.00  | 5   | 1  | 37 | 3.6                         | -0.8      | -8.8    | 6   | 5   | 6.4 | 4.7   | 21    | 1.6  | 1.5   | 0.0                          | 32.3  | 32.3     | 4.3   | 0.0       | 10    | 5     | 0.0   | 11    | 63  | 10   |
| 17   | 5.00  | 40  | 3  | 41 | -1.3                        | 0.1       | -6.1    | 1   | 1   | 6.3 | 4.8   | 21    | 1.6  | 1.5   | 0.0                          | 32.3  | 32.3     | 4.3   | 0.0       | 10    | 8     | 0.0   | 16    | 151 | 10   |
| 2.5  |       | 40  | 5  | 27 | -1.8                        | -2.2      | -6.5    | 5   | 4   | 6.6 | 4.5   | 21    | 1.6  | 1.5   | 0.0                          | 32.3  | 32.3     | 4.3   | 0.0       | 10    | 5     | 0.0   | 11    | 46  | 10   |

STAMPA PROGETTO S.L.U. - AZIONI S.L.D. - PILASTRI

| Filo | Quota | T   | r   | C  | VERIFICA A PRESSO-FLESSIONE |           |         |      |     |     |       |          |      |       | VERIFICA A TAGLIO E TORSIONE |       |          |       |           |       |       |       |       |        |      |     |     |
|------|-------|-----|-----|----|-----------------------------|-----------|---------|------|-----|-----|-------|----------|------|-------|------------------------------|-------|----------|-------|-----------|-------|-------|-------|-------|--------|------|-----|-----|
|      |       |     |     |    | Iniz                        | Final     | a       | Bas  | n   | Co  | M Exd | M Eyd    | N Ed | x/    | sF%                          | sc%   | Area cmq | Co    | V Exd     | V Eyd | T Sdu | V Rxd | V Ryd | TRd    | TRld | Coe | Coe |
| Fin. | Final | a   | Bas | n  | Co                          | M Exd     | M Eyd   | N Ed | x/  | sF% | sc%   | Area cmq | Co   | V Exd | V Eyd                        | T Sdu | V Rxd    | V Ryd | TRd       | TRld  | Coe   | Coe   | ALon  | Staffe |      |     |     |
| Ctgθ | t     | Alt | c   | mb | cm                          | (kN*10)*m | (kN*10) | /d   | 100 | 100 | b     | h        | mb   | kN*10 | kN*10                        | kN10m | kN*10    | kN*10 | (kN*10)*m | Cls   | Sta   | cmq   | Pas   | Lun    | Fi   |     |     |
| 18   | 2.00  |     | 5   | 1  | 37                          | 4.6       | -0.5    | -6.1 |     | 9   | 5     | 6.0      | 5.1  | 37    | 0.3                          | 3.5   | 0.0      | 31.9  | 31.9      | 4.3   | 0.0   | 12    | 8     | 0.0    | 11   | 48  | 10  |
| 18   | 5.00  |     | 40  | 3  | 41                          | -1.1      | 0.2     | -5.3 |     | 1   | 1     | 6.2      | 4.9  | 37    | 0.3                          | 3.5   | 0.0      | 31.9  | 31.9      | 4.3   | 0.0   | 12    | 11    | 0.0    | 16   | 166 | 10  |
| 2.5  |       |     | 40  | 5  | 37                          | -4.4      | 0.4     | -5.0 |     | 8   | 5     | 6.3      | 4.8  | 37    | 0.3                          | 3.5   | 0.0      | 31.9  | 31.9      | 4.3   | 0.0   | 12    | 8     | 0.0    | 11   | 45  | 10  |

STAMPA VERIFICHE S.L.E. ELEVAZIONE

| Filo | Quota | Tra | FESSURAZIONE |           |       |     |     |      |           | FRECCE |             | TENSIONI |          |                           |        |      |           |       |      |      |      |
|------|-------|-----|--------------|-----------|-------|-----|-----|------|-----------|--------|-------------|----------|----------|---------------------------|--------|------|-----------|-------|------|------|------|
|      |       |     | Combi        | Fessu. mm | dist  | Con | Com | Mf X | Mf Y      | N      | Frecce mm   | Com      | Combinaz | σ lim.                    | σ cal. | Co   | Comb      | Mf X  | Mf Y | N    |      |
| N.ro | (m)   | Nro | Caric        | lim       | cal   | mm  | cio | bin  | (kN*10)*m | kN*10  | limite calc | bin      | Carico   | -- daN/cm <sup>2</sup> -- | nc     |      | (kN*10)*m | kN*10 |      |      |      |
| 19   | 2.00  |     | Rara         |           |       |     |     |      |           |        |             |          |          | Rara cls                  | 150.0  | 54.4 | 5         | 3     | -1.2 | 0.0  | 0.0  |
| 24   | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 1    | -1.1      | 0.0    |             |          |          | Rara fer                  | 3600   | 1659 | 5         | 3     | -1.2 | 0.0  | 0.0  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1    | -1.1      | 0.0    |             |          |          | Perm cls                  | 112.0  | 49.5 | 5         | 1     | -1.1 | 0.0  | 0.0  |
| 24   | 2.00  |     | Rara         |           |       |     |     |      |           |        |             |          |          | Rara cls                  | 150.0  | 54.4 | 1         | 9     | -1.2 | 0.0  | 0.0  |
| 21   | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 1    | -1.1      | 0.0    |             |          |          | Rara fer                  | 3600   | 1659 | 1         | 9     | -1.2 | 0.0  | 0.0  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1    | -1.1      | 0.0    |             |          |          | Perm cls                  | 112.0  | 49.5 | 1         | 1     | -1.1 | 0.0  | 0.0  |
| 1    | 5.00  |     | Rara         |           |       |     |     |      |           |        |             |          |          | Rara cls                  | 150.0  | 12.9 | 1         | 14    | -1.3 | -0.1 | -5.9 |
| 25   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 3   | 4    | 0.8       | 0.0    | -6.0        |          |          | Rara fer                  | 3600   | 103  | 1         | 14    | -1.3 | -0.1 | -5.9 |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1    | -0.6      | 0.2    | -5.4        |          |          | Perm cls                  | 112.0  | 6.4  | 3         | 1     | 0.7  | 0.0  | -5.9 |
| 9    | 5.00  |     | Rara         |           |       |     |     |      |           |        |             |          |          | Rara cls                  | 150.0  | 12.8 | 1         | 14    | -1.3 | 0.2  | -5.7 |
| 33   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 3   | 4    | 0.8       | 0.0    | -5.9        |          |          | Rara fer                  | 3600   | 108  | 1         | 14    | -1.3 | 0.2  | -5.7 |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1    | -0.7      | -0.3   | -5.1        |          |          | Perm cls                  | 112.0  | 6.6  | 3         | 1     | 0.7  | -0.1 | -5.7 |
| 10   | 5.00  |     | Rara         |           |       |     |     |      |           |        |             |          |          | Rara cls                  | 150.0  | 12.0 | 2         | 14    | 1.3  | 0.0  | -7.7 |
| 25   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 3   | 6    | 0.8       | 0.0    | -6.8        |          |          | Rara fer                  | 3600   | 86   | 2         | 14    | 1.3  | 0.0  | -7.7 |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 3   | 1    | 0.7       | 0.0    | -6.6        |          |          | Perm cls                  | 112.0  | 7.0  | 3         | 1     | 0.7  | 0.0  | -6.6 |
| 18   | 5.00  |     | Rara         |           |       |     |     |      |           |        |             |          |          | Rara cls                  | 150.0  | 12.2 | 2         | 14    | 1.3  | 0.0  | -8.9 |
| 33   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 3   | 6    | 0.9       | 0.0    | -7.8        |          |          | Rara fer                  | 3600   | 89   | 2         | 14    | 1.3  | 0.0  | -8.9 |

STAMPA VERIFICHE S.L.E. ELEVAZIONE

|      |       | FESSURAZIONE |       |           |       |     |     |           |      |       | FRECCE      |     | TENSIONI |                           |        |      |      |           |      |       |       |
|------|-------|--------------|-------|-----------|-------|-----|-----|-----------|------|-------|-------------|-----|----------|---------------------------|--------|------|------|-----------|------|-------|-------|
| Filo | Quota | Tra          | Combi | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com | Combinaz | σ lim.                    | σ cal. | Co   | Comb | Mf X      | Mf Y | N     |       |
| N.ro | (m)   | Nro          | Caric | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin | Carico   | -- daN/cm <sup>2</sup> -- | nc     |      |      | (kN*10)*m |      | kN*10 |       |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 3   | 1         | 0.8  | 0.0   | -7.6        |     |          | Perm cls                  | 112.0  | 7.7  | 3    | 1         | 0.8  | 0.0   | -7.6  |
| 2    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 36.2   | 1    | 14   | -1.3      | 0.0  | -10.3 |       |
| 26   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.0 | 0.0   | -8.4        |     |          | Rara fer                  | 3600   | 308  | 1    | 14        | -1.3 | 0.0   | -10.3 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -1.0 | 0.0   | -8.3        |     |          | Perm cls                  | 112.0  | 27.5 | 5    | 1         | -1.0 | 0.0   | -8.3  |
| 6    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 39.4   | 1    | 14   | -1.4      | 0.0  | -12.1 |       |
| 30   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | 0.0   | -9.8        |     |          | Rara fer                  | 3600   | 339  | 5    | 6         | -1.3 | 0.0   | -10.7 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | 0.0   | -9.6        |     |          | Perm cls                  | 112.0  | 31.4 | 5    | 1         | -1.1 | 0.0   | -9.6  |
| 7    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 39.0   | 1    | 14   | -1.4      | 0.0  | -11.9 |       |
| 31   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | -0.1  | -9.6        |     |          | Rara fer                  | 3600   | 339  | 5    | 6         | -1.3 | -0.1  | -10.5 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | -0.1  | -9.4        |     |          | Perm cls                  | 112.0  | 31.1 | 5    | 1         | -1.1 | -0.1  | -9.4  |
| 8    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 38.4   | 1    | 14   | -1.3      | 0.0  | -11.0 |       |
| 32   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | 0.0   | -9.0        |     |          | Rara fer                  | 3600   | 344  | 5    | 6         | -1.3 | 0.0   | -9.9  |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -1.0 | 0.0   | -8.8        |     |          | Perm cls                  | 112.0  | 30.2 | 5    | 1         | -1.0 | 0.0   | -8.8  |
| 3    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 40.4   | 1    | 14   | -1.4      | -0.2 | -11.4 |       |
| 27   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | 0.2   | -9.3        |     |          | Rara fer                  | 3600   | 359  | 5    | 6         | -1.3 | 0.3   | -10.3 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | 0.2   | -9.1        |     |          | Perm cls                  | 112.0  | 31.5 | 5    | 1         | -1.1 | 0.2   | -9.1  |
| 4    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 44.7   | 5    | 6    | -1.5      | 0.0  | -9.8  |       |
| 28   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.3 | 0.0   | -8.7        |     |          | Rara fer                  | 3600   | 531  | 5    | 6         | -1.5 | 0.0   | -9.8  |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -1.2 | 0.0   | -8.5        |     |          | Perm cls                  | 112.0  | 36.9 | 5    | 1         | -1.2 | 0.0   | -8.5  |
| 5    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 41.8   | 1    | 14   | -1.5      | 0.2  | -12.1 |       |
| 29   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.2 | -0.2  | -9.8        |     |          | Rara fer                  | 3600   | 378  | 5    | 6         | -1.4 | -0.2  | -10.9 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | -0.2  | -9.5        |     |          | Perm cls                  | 112.0  | 33.1 | 5    | 1         | -1.1 | -0.2  | -9.5  |
| 11   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 34.7   | 1    | 8    | -1.2      | 0.0  | -9.2  |       |
| 26   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 2         | -1.0 | 0.0   | -7.4        |     |          | Rara fer                  | 3600   | 375  | 5    | 12        | -1.2 | -0.1  | -8.2  |

STAMPA VERIFICHE S.L.E. ELEVAZIONE

|      |       |     | FESSURAZIONE |           |       |     |     |           |      |       |             | FRECCE |          | TENSIONI                  |        |      |      |           |      |       |       |  |
|------|-------|-----|--------------|-----------|-------|-----|-----|-----------|------|-------|-------------|--------|----------|---------------------------|--------|------|------|-----------|------|-------|-------|--|
| Filo | Quota | Tra | Combi        | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com    | Combinaz | σ lim.                    | σ cal. | Co   | Comb | Mf X      | Mf Y | N     |       |  |
| N.ro | (m)   | Nro | Caric        | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin    | Carico   | -- daN/cm <sup>2</sup> -- | nc     |      |      | (kN*10)*m |      | kN*10 |       |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -1.0 | 0.0   | -7.2        |        |          | Perm cls                  | 112.0  | 28.5 | 5    | 1         | -1.0 | 0.0   | -7.2  |  |
| 15   | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 39.7   | 5    | 12   | -1.3      | 0.0  | -9.2  |       |  |
| 30   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | 0.0   | -8.3        |        |          | Rara fer                  | 3600   | 446  | 5    | 12        | -1.3 | 0.0   | -9.2  |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | 0.0   | -8.1        |        |          | Perm cls                  | 112.0  | 32.7 | 5    | 1         | -1.1 | 0.0   | -8.1  |  |
| 16   | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 39.2   | 5    | 12   | -1.3      | 0.1  | -9.2  |       |  |
| 31   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | 0.1   | -8.3        |        |          | Rara fer                  | 3600   | 435  | 5    | 12        | -1.3 | 0.1   | -9.2  |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | 0.1   | -8.1        |        |          | Perm cls                  | 112.0  | 32.3 | 5    | 1         | -1.1 | 0.1   | -8.1  |  |
| 17   | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 37.4   | 5    | 12   | -1.3      | 0.0  | -9.3  |       |  |
| 32   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | 0.0   | -8.4        |        |          | Rara fer                  | 3600   | 385  | 5    | 12        | -1.3 | 0.0   | -9.3  |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -1.0 | 0.0   | -8.2        |        |          | Perm cls                  | 112.0  | 30.8 | 5    | 1         | -1.0 | 0.0   | -8.2  |  |
| 12   | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 38.8   | 5    | 12   | -1.3      | -0.3 | -9.7  |       |  |
| 27   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 2         | -1.1 | -0.2  | -8.8        |        |          | Rara fer                  | 3600   | 400  | 5    | 12        | -1.3 | -0.3  | -9.7  |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | -0.2  | -8.6        |        |          | Perm cls                  | 112.0  | 32.0 | 5    | 1         | -1.1 | -0.2  | -8.6  |  |
| 13   | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 42.2   | 5    | 12   | -1.5      | 0.0  | -12.7 |       |  |
| 28   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 2         | -1.3 | 0.0   | -11.5       |        |          | Rara fer                  | 3600   | 335  | 5    | 12        | -1.5 | 0.0   | -12.7 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -1.2 | 0.0   | -11.3       |        |          | Perm cls                  | 112.0  | 34.5 | 5    | 1         | -1.2 | 0.0   | -11.3 |  |
| 14   | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 40.9   | 5    | 12   | -1.4      | 0.2  | -10.2 |       |  |
| 29   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 2         | -1.2 | 0.2   | -9.2        |        |          | Rara fer                  | 3600   | 424  | 5    | 12        | -1.4 | 0.2   | -10.2 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -1.1 | 0.2   | -9.0        |        |          | Perm cls                  | 112.0  | 33.6 | 5    | 1         | -1.1 | 0.2   | -9.0  |  |
| 1    | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 6.4    | 5    | 5    | -0.4      | 0.0  | 0.0   |       |  |
| 2    | 5.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 3         | -0.3 | 0.0   | 0.0         |        |          | Rara fer                  | 3600   | 189  | 5    | 5         | -0.4 | 0.0   | 0.0   |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -0.3 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0  | 5.3  | 5    | 1         | -0.3 | 0.0   | 0.0   |  |
| 2    | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 6.2    | 1    | 11   | -0.4      | 0.0  | 0.0   |       |  |
| 3    | 5.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 5         | -0.3 | 0.0   | 0.0         |        |          | Rara fer                  | 3600   | 183  | 1    | 11        | -0.4 | 0.0   | 0.0   |  |

STAMPA VERIFICHE S.L.E. ELEVAZIONE

|      |       | FESSURAZIONE |       |           |       |     |     |           |      |       | FRECCE      |     | TENSIONI |                           |        |      |      |           |      |       |     |
|------|-------|--------------|-------|-----------|-------|-----|-----|-----------|------|-------|-------------|-----|----------|---------------------------|--------|------|------|-----------|------|-------|-----|
| Filo | Quota | Tra          | Combi | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com | Combinaz | σ lim.                    | σ cal. | Co   | Comb | Mf X      | Mf Y | N     |     |
| N.ro | (m)   | Nro          | Caric | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin | Carico   | -- daN/cm <sup>2</sup> -- | nc     |      |      | (kN*10)*m |      | kN*10 |     |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.3 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 5.2  | 1    | 1         | -0.3 | 0.0   | 0.0 |
| 3    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 10.6   | 1    | 11   | -0.6      | 0.0  | 0.0   |     |
| 4    | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.6 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 314  | 1    | 11        | -0.6 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.6 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 9.6  | 1    | 1         | -0.6 | 0.0   | 0.0 |
| 4    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 11.2   | 5    | 5    | -0.7      | 0.0  | 0.0   |     |
| 5    | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 3         | -0.6 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 333  | 5    | 5         | -0.7 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -0.6 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 10.2 | 5    | 1         | -0.6 | 0.0   | 0.0 |
| 5    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 8.0    | 5    | 5    | -0.5      | 0.0  | 0.0   |     |
| 6    | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 3         | -0.4 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 238  | 5    | 5         | -0.5 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -0.4 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 7.0  | 5    | 1         | -0.4 | 0.0   | 0.0 |
| 6    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 7.6    | 5    | 5    | -0.4      | 0.0  | 0.0   |     |
| 7    | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 3         | -0.4 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 225  | 5    | 5         | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -0.4 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 6.6  | 5    | 1         | -0.4 | 0.0   | 0.0 |
| 7    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 6.7    | 5    | 5    | -0.4      | 0.0  | 0.0   |     |
| 8    | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 3         | -0.4 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 199  | 5    | 5         | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -0.3 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 5.8  | 5    | 1         | -0.3 | 0.0   | 0.0 |
| 8    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 7.2    | 1    | 11   | -0.4      | 0.0  | 0.0   |     |
| 9    | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.4 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 212  | 1    | 11        | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.4 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 6.1  | 1    | 1         | -0.4 | 0.0   | 0.0 |
| 10   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 6.0    | 1    | 11   | -0.4      | 0.0  | 0.0   |     |
| 11   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.3 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 176  | 1    | 11        | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.3 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 4.3  | 1    | 1         | -0.3 | 0.0   | 0.0 |
| 11   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 5.7    | 1    | 11   | -0.3      | 0.0  | 0.0   |     |
| 12   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.3 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 169  | 1    | 11        | -0.3 | 0.0   | 0.0 |

STAMPA VERIFICHE S.L.E. ELEVAZIONE

|      |       | FESSURAZIONE |       |           |       |     |     |           |      |       | FRECCE      |     | TENSIONI |                           |        |      |      |           |      |       |     |
|------|-------|--------------|-------|-----------|-------|-----|-----|-----------|------|-------|-------------|-----|----------|---------------------------|--------|------|------|-----------|------|-------|-----|
| Filo | Quota | Tra          | Combi | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com | Combinaz | σ lim.                    | σ cal. | Co   | Comb | Mf X      | Mf Y | N     |     |
| N.ro | (m)   | Nro          | Caric | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin | Carico   | -- daN/cm <sup>2</sup> -- | nc     |      |      | (kN*10)*m |      | kN*10 |     |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.3 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 4.8  | 1    | 1         | -0.3 | 0.0   | 0.0 |
| 12   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 8.9    | 5    | 5    | -0.5      | 0.0  | 0.0   |     |
| 13   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 3         | -0.5 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 262  | 5    | 5         | -0.5 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -0.5 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 7.9  | 5    | 1         | -0.5 | 0.0   | 0.0 |
| 13   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 9.2    | 1    | 11   | -0.5      | 0.0  | 0.0   |     |
| 14   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.5 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 274  | 1    | 11        | -0.5 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.5 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 8.3  | 1    | 1         | -0.5 | 0.0   | 0.0 |
| 14   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 7.3    | 1    | 11   | -0.4      | 0.0  | 0.0   |     |
| 15   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.4 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 217  | 1    | 11        | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.4 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 6.3  | 1    | 1         | -0.4 | 0.0   | 0.0 |
| 15   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 7.4    | 1    | 11   | -0.4      | 0.0  | 0.0   |     |
| 16   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.4 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 218  | 1    | 11        | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.4 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 6.4  | 1    | 1         | -0.4 | 0.0   | 0.0 |
| 16   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 6.6    | 1    | 11   | -0.4      | 0.0  | 0.0   |     |
| 17   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.3 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 194  | 1    | 11        | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.3 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 5.6  | 1    | 1         | -0.3 | 0.0   | 0.0 |
| 17   | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 6.3    | 5    | 5    | -0.4      | 0.0  | 0.0   |     |
| 18   | 5.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 5         | -0.3 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 186  | 5    | 5         | -0.4 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | -0.3 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 5.0  | 1    | 1         | -0.3 | 0.0   | 0.0 |
| 25   | 6.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 13.0   | 1    | 9    | -0.3      | 0.0  | 0.0   |     |
| 26   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 2         | -0.3 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 233  | 1    | 9         | -0.3 | 0.0   | 0.0 |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -0.3 | 0.0   | 0.0         |     |          | Perm cls                  | 112.0  | 12.5 | 5    | 1         | -0.3 | 0.0   | 0.0 |
| 26   | 6.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 15.3   | 5    | 5    | -0.4      | 0.0  | 0.0   |     |
| 27   | 6.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 3         | -0.4 | 0.0   | 0.0         |     |          | Rara fer                  | 3600   | 273  | 5    | 5         | -0.4 | 0.0   | 0.0 |



STAMPA VERIFICHE S.L.E. ELEVAZIONE

|      |       |     | FESSURAZIONE |           |       |     |     |           |      |       |             | FRECCE |          | TENSIONI                  |               |      |      |           |      |       |     |  |
|------|-------|-----|--------------|-----------|-------|-----|-----|-----------|------|-------|-------------|--------|----------|---------------------------|---------------|------|------|-----------|------|-------|-----|--|
| Filo | Quota | Tra | Combi        | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com    | Combinaz | $\sigma$ lim.             | $\sigma$ cal. | Co   | Comb | Mf X      | Mf Y | N     |     |  |
| N.ro | (m)   | Nro | Caric        | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin    | Carico   | -- daN/cm <sup>2</sup> -- | nc            |      |      | (kN*10)*m |      | kN*10 |     |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -0.4 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0         | 15.2 | 5    | 1         | -0.4 | 0.0   | 0.0 |  |
| 27   | 6.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 22.0          | 1    | 9    | -0.5      | 0.0  | 0.0   |     |  |
| 28   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | -0.5 | 0.0   | 0.0         |        |          | Rara fer                  | 3600          | 396  | 1    | 9         | -0.5 | 0.0   | 0.0 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -0.5 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0         | 21.8 | 1    | 1         | -0.5 | 0.0   | 0.0 |  |
| 28   | 6.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 22.8          | 5    | 3    | -0.6      | 0.0  | 0.0   |     |  |
| 29   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 2         | -0.5 | 0.0   | 0.0         |        |          | Rara fer                  | 3600          | 411  | 5    | 3         | -0.6 | 0.0   | 0.0 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -0.5 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0         | 22.6 | 5    | 1         | -0.5 | 0.0   | 0.0 |  |
| 29   | 6.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 18.1          | 1    | 11   | -0.4      | 0.0  | 0.0   |     |  |
| 30   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 5         | -0.4 | 0.0   | 0.0         |        |          | Rara fer                  | 3600          | 325  | 1    | 11        | -0.4 | 0.0   | 0.0 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -0.4 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0         | 18.0 | 1    | 1         | -0.4 | 0.0   | 0.0 |  |
| 30   | 6.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 18.4          | 5    | 5    | -0.4      | 0.0  | 0.0   |     |  |
| 31   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 5   | 3         | -0.4 | 0.0   | 0.0         |        |          | Rara fer                  | 3600          | 331  | 5    | 5         | -0.4 | 0.0   | 0.0 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 5   | 1         | -0.4 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0         | 18.3 | 5    | 1         | -0.4 | 0.0   | 0.0 |  |
| 31   | 6.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 16.7          | 1    | 11   | -0.4      | 0.0  | 0.0   |     |  |
| 32   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 5         | -0.4 | 0.0   | 0.0         |        |          | Rara fer                  | 3600          | 298  | 1    | 11        | -0.4 | 0.0   | 0.0 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -0.4 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0         | 16.6 | 1    | 1         | -0.4 | 0.0   | 0.0 |  |
| 32   | 6.00  |     | Rara         |           |       |     |     |           |      |       |             |        | Rara cls | 150.0                     | 15.9          | 1    | 11   | -0.4      | 0.0  | 0.0   |     |  |
| 33   | 6.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 5         | -0.4 | 0.0   | 0.0         |        |          | Rara fer                  | 3600          | 284  | 1    | 11        | -0.4 | 0.0   | 0.0 |  |
|      |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -0.4 | 0.0   | 0.0         |        |          | Perm cls                  | 112.0         | 16.0 | 1    | 1         | -0.4 | 0.0   | 0.0 |  |

VERIFICA DIAMETRO MASSIMO - FORMULA 7.4.27

|      |      |       | Dir. Locale X |        |      |       |      |        |          | Dir. Locale Y |      |       |      |        |  |  |
|------|------|-------|---------------|--------|------|-------|------|--------|----------|---------------|------|-------|------|--------|--|--|
| Nodo | Filo | Quota | Trave di      | AlfabL | Bpil | FiMax | Fi   | STATUS | Trave di | AlfabL        | Bpil | FiMax | Fi   | STATUS |  |  |
| 3D   |      | (m)   | riferim.      | min.   | (mm) | (mm)  | (mm) |        | riferim. | min.          | (mm) | (mm)  | (mm) |        |  |  |
| 186  | 1    | 5.00  | 40            | 0.0492 | 400  | 20    | 14   | OK     | 22       | 0.0492        | 400  | 20    | 14   | OK     |  |  |

VERIFICA DIAMETRO MASSIMO - FORMULA 7.4.27

|      |      |       | Dir. Locale X |        |      |       |      |          | Dir. Locale Y |        |      |       |      |        |
|------|------|-------|---------------|--------|------|-------|------|----------|---------------|--------|------|-------|------|--------|
| Nodo | Filo | Quota | Trave di      | AlfabL | Bpil | FiMax | Fi   | STATUS   | Trave di      | AlfabL | Bpil | FiMax | Fi   | STATUS |
| 3D   |      | (m)   | riferim.      | min.   | (mm) | (mm)  | (mm) |          | riferim.      | min.   | (mm) | (mm)  | (mm) |        |
| 187  | 2    | 5.00  | 41            |        | 400  |       | 14   | PASSANTE | 26            | 0.0492 | 400  | 20    | 14   | OK     |
| 188  | 3    | 5.00  | 42            | 0.0328 | 400  | 13    | 14   | PIEGA    | 30            | 0.0492 | 400  | 20    | 14   | OK     |
| 189  | 4    | 5.00  | 43            |        | 400  |       | 14   | PASSANTE | 31            | 0.0492 | 400  | 20    | 14   | OK     |
| 190  | 5    | 5.00  | 44            | 0.0328 | 400  | 13    | 14   | PIEGA    | 32            | 0.0492 | 400  | 20    | 14   | OK     |
| 191  | 6    | 5.00  | 45            |        | 400  |       | 14   | PASSANTE | 27            | 0.0492 | 400  | 20    | 14   | OK     |
| 192  | 7    | 5.00  | 46            | 0.0328 | 400  | 13    | 14   | PIEGA    | 28            | 0.0492 | 400  | 20    | 14   | OK     |
| 193  | 8    | 5.00  | 47            |        | 400  |       | 14   | PASSANTE | 29            | 0.0492 | 400  | 20    | 14   | OK     |
| 194  | 9    | 5.00  | 47            | 0.0492 | 400  | 20    | 14   | OK       | 23            | 0.0492 | 400  | 20    | 14   | OK     |
| 195  | 10   | 5.00  | 48            | 0.0492 | 400  | 20    | 14   | OK       | 24            | 0.0492 | 400  | 20    | 14   | OK     |
| 196  | 11   | 5.00  | 49            |        | 400  |       | 14   | PASSANTE | 33            | 0.0492 | 400  | 20    | 14   | OK     |
| 197  | 12   | 5.00  | 50            | 0.0328 | 400  | 13    | 14   | PIEGA    | 37            | 0.0492 | 400  | 20    | 14   | OK     |
| 198  | 13   | 5.00  | 51            |        | 400  |       | 14   | PASSANTE | 38            | 0.0492 | 400  | 20    | 14   | OK     |
| 199  | 14   | 5.00  | 52            | 0.0328 | 400  | 13    | 14   | PIEGA    | 39            | 0.0492 | 400  | 20    | 14   | OK     |
| 200  | 15   | 5.00  | 53            |        | 400  |       | 14   | PASSANTE | 34            | 0.0492 | 400  | 20    | 14   | OK     |
| 201  | 16   | 5.00  | 54            | 0.0328 | 400  | 13    | 14   | PIEGA    | 35            | 0.0492 | 400  | 20    | 14   | OK     |
| 202  | 17   | 5.00  | 55            |        | 400  |       | 14   | PASSANTE | 36            | 0.0492 | 400  | 20    | 14   | OK     |
| 203  | 18   | 5.00  | 55            | 0.0492 | 400  | 20    | 14   | OK       | 25            | 0.0492 | 400  | 20    | 14   | OK     |

PILASTRI

|      |       | FESSURAZIONE |       |           |       |     |     |           |      |       | FRECCE      |     | TENSIONI |                           |               |    |      |           |      |       |
|------|-------|--------------|-------|-----------|-------|-----|-----|-----------|------|-------|-------------|-----|----------|---------------------------|---------------|----|------|-----------|------|-------|
| Filo | Quota | Tra          | Combi | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com | Combinaz | $\sigma$ lim.             | $\sigma$ cal. | Co | Comb | Mf X      | Mf Y | N     |
| N.ro | (m)   | Nro          | Caric | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin | Carico   | -- daN/cm <sup>2</sup> -- | nc            |    |      | (kN*10)*m |      | kN*10 |
| 24   | 2.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 5.5           | 5  | 14   | -0.1      | 0.0  | -4.0  |
| 24   | 0.00  |              | Freq  | 0.4       | 0.000 | 0   | 5   | 6         | -0.1 | 0.0   | -3.7        |     | Rara fer | 3600                      | 43            | 5  | 14   | -0.1      | 0.0  | -4.0  |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 5   | 1         | -0.1 | 0.0   | -3.7        |     | Perm cls | 112.0                     | 4.8           | 5  | 1    | -0.1      | 0.0  | -3.7  |
| 1    | 5.00  |              | Rara  |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 26.7          | 1  | 14   | 1.6       | 0.1  | -4.3  |
| 1    | 2.00  |              | Freq  | 0.4       | 0.000 | 0   | 1   | 6         | 1.0  | 0.1   | -4.1        |     | Rara fer | 3600                      | 359           | 1  | 14   | 1.6       | 0.1  | -4.3  |
|      |       |              | Perm  | 0.3       | 0.000 | 0   | 1   | 1         | 0.9  | 0.2   | -4.1        |     | Perm cls | 112.0                     | 15.2          | 1  | 1    | 0.9       | 0.2  | -4.1  |

| PILASTRI |       |     |              |           |       |     |     |           |      |       |             |     |          |                           |        |    |      |           |      |       |
|----------|-------|-----|--------------|-----------|-------|-----|-----|-----------|------|-------|-------------|-----|----------|---------------------------|--------|----|------|-----------|------|-------|
|          |       |     | FESSURAZIONE |           |       |     |     |           |      |       | FRECCE      |     | TENSIONI |                           |        |    |      |           |      |       |
| Filo     | Quota | Tra | Combi        | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com | Combinaz | σ lim.                    | σ cal. | Co | Comb | Mf X      | Mf Y | N     |
| N.ro     | (m)   | Nro | Caric        | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin | Carico   | -- daN/cm <sup>2</sup> -- | nc     |    |      | (kN*10)*m |      | kN*10 |
| 2        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 28.0   | 1  | 12   | 1.9       | 0.0  | -7.3  |
| 2        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 6         | 1.5  | 0.0   | -6.4        |     | Rara fer | 3600                      | 302    | 1  | 12   | 1.9       | 0.0  | -7.3  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 1.5  | 0.0   | -6.4        |     | Perm cls | 112.0                     | 22.5   | 1  | 1    | 1.5       | 0.0  | -6.4  |
| 3        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 35.1   | 1  | 12   | 2.1       | 0.2  | -8.3  |
| 3        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | 1.7  | 0.2   | -7.3        |     | Rara fer | 3600                      | 365    | 1  | 12   | 2.1       | 0.2  | -8.3  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 1.7  | 0.2   | -7.2        |     | Perm cls | 112.0                     | 28.7   | 1  | 1    | 1.7       | 0.2  | -7.2  |
| 4        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 33.6   | 1  | 12   | 2.2       | 0.0  | -8.6  |
| 4        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | 1.9  | 0.0   | -7.5        |     | Rara fer | 3600                      | 374    | 1  | 12   | 2.2       | 0.0  | -8.6  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 1.8  | 0.0   | -7.3        |     | Perm cls | 112.0                     | 27.0   | 1  | 1    | 1.8       | 0.0  | -7.3  |
| 5        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 36.7   | 1  | 12   | 2.2       | -0.2 | -8.8  |
| 5        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | 1.8  | -0.2  | -7.7        |     | Rara fer | 3600                      | 380    | 1  | 12   | 2.2       | -0.2 | -8.8  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 1.8  | -0.2  | -7.5        |     | Perm cls | 112.0                     | 29.9   | 1  | 1    | 1.8       | -0.2 | -7.5  |
| 6        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 32.4   | 1  | 12   | 2.1       | 0.0  | -8.5  |
| 6        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | 1.8  | 0.0   | -7.5        |     | Rara fer | 3600                      | 345    | 1  | 12   | 2.1       | 0.0  | -8.5  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 1.7  | 0.0   | -7.3        |     | Perm cls | 112.0                     | 26.1   | 1  | 1    | 1.7       | 0.0  | -7.3  |
| 7        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 32.2   | 1  | 12   | 2.1       | -0.1 | -8.4  |
| 7        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | 1.7  | 0.0   | -7.4        |     | Rara fer | 3600                      | 344    | 1  | 12   | 2.1       | -0.1 | -8.4  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 1.7  | 0.0   | -7.2        |     | Perm cls | 112.0                     | 26.1   | 1  | 1    | 1.7       | 0.0  | -7.2  |
| 8        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 30.2   | 1  | 12   | 2.0       | 0.0  | -8.0  |
| 8        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 6         | 1.7  | 0.0   | -6.9        |     | Rara fer | 3600                      | 325    | 1  | 12   | 2.0       | 0.0  | -8.0  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 1.6  | 0.0   | -6.9        |     | Perm cls | 112.0                     | 24.4   | 1  | 1    | 1.6       | 0.0  | -6.9  |
| 9        | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 27.9   | 1  | 14   | 1.6       | -0.2 | -4.4  |
| 9        | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 6         | 1.0  | -0.2  | -4.2        |     | Rara fer | 3600                      | 362    | 1  | 14   | 1.6       | -0.2 | -4.4  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | 0.9  | -0.2  | -4.2        |     | Perm cls | 112.0                     | 16.6   | 1  | 1    | 0.9       | -0.2 | -4.2  |

| PILASTRI |       |     |              |           |       |     |     |           |      |       |             |     |          |                           |        |    |      |           |      |       |
|----------|-------|-----|--------------|-----------|-------|-----|-----|-----------|------|-------|-------------|-----|----------|---------------------------|--------|----|------|-----------|------|-------|
|          |       |     | FESSURAZIONE |           |       |     |     |           |      |       | FRECCE      |     | TENSIONI |                           |        |    |      |           |      |       |
| Filo     | Quota | Tra | Combi        | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N     | Frecce mm   | Com | Combinaz | σ lim.                    | σ cal. | Co | Comb | Mf X      | Mf Y | N     |
| N.ro     | (m)   | Nro | Caric        | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10 | limite calc | bin | Carico   | -- daN/cm <sup>2</sup> -- | nc     |    |      | (kN*10)*m |      | kN*10 |
| 10       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 26.5   | 1  | 8    | -1.5      | 0.2  | -4.6  |
| 10       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 4         | -0.9 | 0.2   | -4.4        |     | Rara fer | 3600                      | 316    | 1  | 8    | -1.5      | 0.2  | -4.6  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -0.8 | 0.2   | -4.4        |     | Perm cls | 112.0                     | 15.3   | 1  | 1    | -0.8      | 0.2  | -4.4  |
| 11       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 27.4   | 1  | 6    | -1.8      | 0.1  | -6.9  |
| 11       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 4         | -1.4 | 0.1   | -6.0        |     | Rara fer | 3600                      | 291    | 1  | 6    | -1.8      | 0.1  | -6.9  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -1.4 | 0.1   | -5.9        |     | Perm cls | 112.0                     | 21.9   | 1  | 1    | -1.4      | 0.1  | -5.9  |
| 12       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 32.5   | 1  | 6    | -2.0      | 0.1  | -8.0  |
| 12       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | -1.7 | 0.1   | -7.1        |     | Rara fer | 3600                      | 336    | 1  | 6    | -2.0      | 0.1  | -8.0  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -1.6 | 0.1   | -6.9        |     | Perm cls | 112.0                     | 26.4   | 1  | 1    | -1.6      | 0.1  | -6.9  |
| 13       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 34.9   | 1  | 6    | -2.3      | 0.0  | -9.7  |
| 13       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | -2.0 | 0.0   | -8.6        |     | Rara fer | 3600                      | 360    | 1  | 6    | -2.3      | 0.0  | -9.7  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -1.9 | 0.0   | -8.4        |     | Perm cls | 112.0                     | 28.4   | 1  | 1    | -1.9      | 0.0  | -8.4  |
| 14       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 32.3   | 1  | 6    | -2.1      | -0.1 | -8.5  |
| 14       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | -1.8 | -0.1  | -7.5        |     | Rara fer | 3600                      | 340    | 1  | 6    | -2.1      | -0.1 | -8.5  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -1.7 | -0.1  | -7.3        |     | Perm cls | 112.0                     | 26.2   | 1  | 1    | -1.7      | -0.1 | -7.3  |
| 15       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 30.0   | 1  | 6    | -2.0      | 0.0  | -8.0  |
| 15       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | -1.6 | 0.0   | -7.0        |     | Rara fer | 3600                      | 320    | 1  | 6    | -2.0      | 0.0  | -8.0  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -1.6 | 0.0   | -6.8        |     | Perm cls | 112.0                     | 24.1   | 1  | 1    | -1.6      | 0.0  | -6.8  |
| 16       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 30.0   | 1  | 6    | -2.0      | 0.0  | -7.9  |
| 16       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | -1.6 | 0.0   | -6.9        |     | Rara fer | 3600                      | 319    | 1  | 6    | -2.0      | 0.0  | -7.9  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -1.6 | 0.0   | -6.8        |     | Perm cls | 112.0                     | 24.1   | 1  | 1    | -1.6      | 0.0  | -6.8  |
| 17       | 5.00  |     | Rara         |           |       |     |     |           |      |       |             |     | Rara cls | 150.0                     | 29.0   | 1  | 6    | -1.9      | 0.0  | -7.7  |
| 17       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 2         | -1.6 | 0.0   | -6.8        |     | Rara fer | 3600                      | 307    | 1  | 6    | -1.9      | 0.0  | -7.7  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -1.5 | 0.0   | -6.6        |     | Perm cls | 112.0                     | 23.2   | 1  | 1    | -1.5      | 0.0  | -6.6  |

| PILASTRI |       |     |              |           |       |     |     |           |      |        |             |     |          |                           |        |    |      |           |      |       |
|----------|-------|-----|--------------|-----------|-------|-----|-----|-----------|------|--------|-------------|-----|----------|---------------------------|--------|----|------|-----------|------|-------|
|          |       |     | FESSURAZIONE |           |       |     |     |           |      | FRECCE |             |     | TENSIONI |                           |        |    |      |           |      |       |
| Filo     | Quota | Tra | Combi        | Fessu. mm | dist  | Con | Com | Mf X      | Mf Y | N      | Frecce mm   | Com | Combinaz | σ lim.                    | σ cal. | Co | Comb | Mf X      | Mf Y | N     |
| N.ro     | (m)   | Nro | Caric        | lim cal   | mm    | cio | bin | (kN*10)*m |      | kN*10  | limite calc | bin | Carico   | -- daN/cm <sup>2</sup> -- | nc     |    |      | (kN*10)*m |      | kN*10 |
| 18       | 5.00  |     | Rara         |           |       |     |     |           |      |        |             |     | Rara cls | 150.0                     | 27.8   | 1  | 8    | -1.5      | -0.2 | -5.1  |
| 18       | 2.00  |     | Freq         | 0.4       | 0.000 | 0   | 1   | 4         | -1.0 | -0.3   | -4.8        |     | Rara fer | 3600                      | 324    | 1  | 8    | -1.5      | -0.2 | -5.1  |
|          |       |     | Perm         | 0.3       | 0.000 | 0   | 1   | 1         | -0.9 | -0.3   | -4.9        |     | Perm cls | 112.0                     | 16.5   | 1  | 1    | -0.9      | -0.3 | -4.9  |

| S.L.U. - AZIONI S.L.V. - VERIFICA PIASTRE - QUOTA: 0 ELEMENTO: 1 |    |       |       |       |       |        |        |        |        |        |      |      |                   |      |      |      |                    |     |      |        |        |       |
|------------------------------------------------------------------|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|------|------|-------------------|------|------|------|--------------------|-----|------|--------|--------|-------|
| Quo                                                              | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | ef x | ef y | Ax s              | Ay s | Ax i | Ay i | Atag               | σt  | eta  | Fpunz. | FpnzLi | Apunz |
| N.r                                                              | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 |      |      | ----- cmq/m ----- |      |      |      | dN/cm <sup>2</sup> | mm  | daN  | daN    | cmq    |       |
| 0                                                                | 1  | 1     | 4185  | 285   | 883   | 3511   | 1402   | 175    | 5      | 3      | 18   | 17   | 3.0               | 2.5  | 5.0  | 2.5  | 0.1                | 0.6 | -0.6 |        |        |       |
| 0                                                                | 1  | 2     | 6108  | -106  | 1186  | 4504   | 3699   | 1      | 5      | 6      | 17   | 18   | 4.2               | 2.5  | 7.2  | 4.9  | 0.2                | 0.7 | -0.7 |        |        |       |
| 0                                                                | 1  | 5     | 4753  | 299   | 1044  | 3450   | 1381   | -168   | 5      | 3      | 18   | 17   | 3.0               | 2.5  | 5.0  | 2.5  | 0.1                | 0.6 | -0.6 |        |        |       |
| 0                                                                | 1  | 215   | 6267  | 545   | 231   | -1837  | -1196  | 589    | 3      | 3      | 18   | 15   | 3.1               | 2.5  | 2.5  | 2.5  | 0.0                | 0.4 | -0.4 |        |        |       |
| 0                                                                | 1  | 225   | 5671  | 598   | 531   | -1463  | 97     | -144   | 2      | 0      | 15   | 4    | 3.1               | 2.5  | 2.5  | 2.5  | 0.1                | 0.2 | -0.2 |        |        |       |
| 0                                                                | 1  | 230   | -1262 | -581  | 2888  | 1130   | 114    | -49    | 6      | 0      | 67   | 1    | 2.5               | 2.5  | 2.5  | 2.5  | 0.4                | 0.5 | -0.5 |        |        |       |
| 0                                                                | 1  | 242   | -1482 | -571  | 2132  | 619    | 288    | -241   | 2      | 1      | 12   | 6    | 2.5               | 2.5  | 2.5  | 2.5  | 0.3                | 0.3 | -0.3 |        |        |       |
| 0                                                                | 1  | 243   | -1858 | -362  | 2470  | -608   | -467   | -375   | 2      | 1      | 10   | 11   | 2.5               | 2.5  | 2.5  | 2.5  | 0.3                | 0.2 | -0.2 |        |        |       |
| 0                                                                | 1  | 244   | -1000 | -148  | 1701  | -147   | -147   | 4      | 0      | 0      | 1    | 3    | 2.5               | 2.5  | 2.5  | 2.5  | 0.2                | 0.2 | -0.2 |        |        |       |
| 0                                                                | 1  | 245   | -1211 | -97   | 1136  | -210   | -308   | 170    | 1      | 1      | 2    | 8    | 2.5               | 2.5  | 2.5  | 2.5  | 0.1                | 0.2 | -0.2 |        |        |       |
| 0                                                                | 1  | 246   | -773  | -526  | 1055  | 260    | 1020   | -148   | 1      | 3      | 4    | 18   | 2.5               | 2.5  | 2.5  | 2.5  | 0.1                | 0.3 | -0.3 |        |        |       |
| 0                                                                | 1  | 247   | -1563 | -813  | 592   | 175    | 1023   | -7     | 0      | 3      | 1    | 18   | 2.5               | 2.5  | 2.5  | 2.5  | 0.1                | 0.3 | -0.3 |        |        |       |
| 0                                                                | 1  | 248   | -1975 | -686  | 359   | 215    | 819    | 87     | 0      | 2      | 1    | 18   | 2.5               | 2.5  | 2.5  | 2.5  | 0.0                | 0.3 | -0.3 |        |        |       |

| S.L.U. - AZIONI S.L.V. - VERIFICA PIASTRE - QUOTA: 1 ELEMENTO: 1 |    |       |       |       |       |        |        |        |        |        |      |      |                   |      |      |      |                    |     |      |        |        |       |
|------------------------------------------------------------------|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|------|------|-------------------|------|------|------|--------------------|-----|------|--------|--------|-------|
| Quo                                                              | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | ef x | ef y | Ax s              | Ay s | Ax i | Ay i | Atag               | σt  | eta  | Fpunz. | FpnzLi | Apunz |
| N.r                                                              | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 |      |      | ----- cmq/m ----- |      |      |      | dN/cm <sup>2</sup> | mm  | daN  | daN    | cmq    |       |
| 1                                                                | 1  | 18    | 0     | 0     | 0     | 893    | 1503   | 120    | 2      | 3      | 17   | 17   | 2.5               | 2.5  | 2.5  | 2.5  | 0.0                | 0.7 | -0.7 |        |        |       |
| 1                                                                | 1  | 41    | 0     | 0     | 0     | 870    | 2273   | -96    | 2      | 4      | 17   | 17   | 2.5               | 2.5  | 2.5  | 2.9  | 0.0                | 0.5 | -0.5 |        |        |       |
| 1                                                                | 1  | 290   | 0     | 0     | 0     | 1842   | 268    | -97    | 4      | 1      | 17   | 7    | 2.5               | 2.5  | 2.5  | 2.5  | 0.0                | 0.4 | -0.4 |        |        |       |
| 1                                                                | 1  | 291   | 0     | 0     | 0     | -345   | -198   | -151   | 1      | 1      | 9    | 5    | 2.5               | 2.5  | 2.5  | 2.5  | 0.0                | 0.3 | -0.3 |        |        |       |
| 1                                                                | 1  | 292   | 0     | 0     | 0     | -601   | -257   | -36    | 2      | 1      | 15   | 7    | 2.5               | 2.5  | 2.5  | 2.5  | 0.0                | 0.2 | -0.2 |        |        |       |
| 1                                                                | 1  | 293   | 0     | 0     | 0     | -368   | -247   | 4      | 1      | 1      | 9    | 6    | 2.5               | 2.5  | 2.5  | 2.5  | 0.0                | 0.1 | -0.1 |        |        |       |
| 1                                                                | 1  | 294   | 0     | 0     | 0     | 1522   | 326    | -223   | 3      | 1      | 17   | 8    | 2.5               | 2.5  | 2.5  | 2.5  | 0.0                | 0.4 | -0.4 |        |        |       |

S.L.U. - AZIONI S.L.V. - VERIFICA PIASTRE - QUOTA: 1 ELEMENTO: 1

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s | Ay s | Ax i | Ay i | Atag      | σt  | εta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|------|------|------|------|-----------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |      |      |      |      | dN/cmq mm | daN | daN  | cmq    |        |       |
| 1   | 1  | 295   | 0     | 0     | 0     | -675   | -765   | -347   | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.3 | -0.3 |        |        |       |
| 1   | 1  | 296   | 0     | 0     | 0     | -714   | -859   | -225   | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.2 | -0.2 |        |        |       |
| 1   | 1  | 297   | 0     | 0     | 0     | -442   | -814   | -132   | 1      | 2      | 11                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.2 | -0.2 |        |        |       |
| 1   | 1  | 298   | 0     | 0     | 0     | 419    | 1018   | -192   | 1      | 3      | 11                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 1  | 299   | 0     | 0     | 0     | 252    | 1363   | -96    | 1      | 3      | 6                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 1  | 300   | 0     | 0     | 0     | 353    | 1535   | 87     | 1      | 3      | 9                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.5 | -0.5 |        |        |       |

S.L.U. - AZIONI S.L.V. - VERIFICA PIASTRE - QUOTA: 1 ELEMENTO: 2

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s | Ay s | Ax i | Ay i | Atag      | σt  | εta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|------|------|------|------|-----------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |      |      |      |      | dN/cmq mm | daN | daN  | cmq    |        |       |
| 1   | 2  | 41    | 0     | 0     | 0     | 870    | 2273   | -96    | 2      | 4      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.9  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 60    | 0     | 0     | 0     | 315    | 2118   | 1      | 1      | 4      | 8                 | 17   | 2.5  | 2.5  | 2.5  | 2.7  | 0.0       | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 61    | 0     | 0     | 0     | 381    | 2157   | 103    | 1      | 4      | 10                | 17   | 2.5  | 2.5  | 2.5  | 2.8  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 62    | 0     | 0     | 0     | 954    | 2745   | 10     | 3      | 5      | 17                | 18   | 2.5  | 2.5  | 2.5  | 3.5  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 78    | 0     | 0     | 0     | 383    | 2147   | -62    | 1      | 4      | 10                | 17   | 2.5  | 2.5  | 2.5  | 2.7  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 79    | 0     | 0     | 0     | 330    | 2160   | -5     | 1      | 4      | 8                 | 17   | 2.5  | 2.5  | 2.5  | 2.8  | 0.0       | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 80    | 0     | 0     | 0     | 387    | 2134   | 109    | 1      | 4      | 10                | 17   | 2.5  | 2.5  | 2.5  | 2.7  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 141   | 0     | 0     | 0     | 681    | 1817   | -5     | 2      | 4      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 142   | 0     | 0     | 0     | 310    | 1383   | 100    | 1      | 3      | 8                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 143   | 0     | 0     | 0     | 192    | 1277   | -78    | 1      | 3      | 5                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 144   | 0     | 0     | 0     | -441   | 926    | -274   | 1      | 2      | 11                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.6 | -0.6 |        |        |       |
| 1   | 2  | 145   | 0     | 0     | 0     | 912    | 1500   | -190   | 2      | 3      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.6 | -0.6 |        |        |       |
| 1   | 2  | 146   | 0     | 0     | 0     | -388   | -887   | -83    | 1      | 2      | 10                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.2 | -0.2 |        |        |       |
| 1   | 2  | 147   | 0     | 0     | 0     | -733   | -957   | -170   | 2      | 3      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.2 | -0.2 |        |        |       |
| 1   | 2  | 148   | 0     | 0     | 0     | -784   | -811   | -290   | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.3 | -0.3 |        |        |       |
| 1   | 2  | 149   | 0     | 0     | 0     | 1700   | 324    | -178   | 4      | 1      | 17                | 8    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 150   | 0     | 0     | 0     | -268   | -233   | 5      | 1      | 1      | 7                 | 6    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.1 | -0.1 |        |        |       |
| 1   | 2  | 151   | 0     | 0     | 0     | -557   | -246   | 24     | 2      | 1      | 14                | 6    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.1 | -0.1 |        |        |       |
| 1   | 2  | 152   | 0     | 0     | 0     | -408   | -201   | 135    | 1      | 1      | 11                | 5    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.3 | -0.3 |        |        |       |
| 1   | 2  | 153   | 0     | 0     | 0     | 1756   | 255    | 91     | 4      | 1      | 17                | 7    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 154   | 0     | 0     | 0     | -359   | -780   | 96     | 1      | 2      | 9                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.2 | -0.2 |        |        |       |
| 1   | 2  | 155   | 0     | 0     | 0     | -668   | -848   | 184    | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.2 | -0.2 |        |        |       |
| 1   | 2  | 156   | 0     | 0     | 0     | -733   | -775   | 316    | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0       | 0.3 | -0.3 |        |        |       |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

215 di/of 501

S.L.U. - AZIONI S.L.V. - VERIFICA PIASTRE - QUOTA: 1 ELEMENTO: 2

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | sf x              | sf y | Ax s | Ay s | Ax i | Ay i | Atag                  | ct  | eta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|------|------|------|------|-----------------------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |      |      |      |      | dN/cm <sup>2</sup> mm | daN | daN  | cmq    |        |       |
| 1   | 2  | 157   | 0     | 0     | 0     | 1502   | 315    | 213    | 3      | 1      | 17                | 8    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 158   | 0     | 0     | 0     | 332    | 1484   | -97    | 1      | 3      | 9                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 159   | 0     | 0     | 0     | 230    | 1353   | 73     | 1      | 3      | 6                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 160   | 0     | 0     | 0     | 366    | 1001   | 139    | 1      | 3      | 9                 | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 161   | 0     | 0     | 0     | 697    | 1647   | 137    | 2      | 4      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.5 | -0.5 |        |        |       |

S.L.U. - AZIONI S.L.D. - VERIFICA PUNZONAMENTO PIASTRE - QUOTA: 0 ELEMENTO: 1

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | sf x              | sf y | Ax s | Ay s | Ax i | Ay i | Atag                  | ct  | eta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|------|------|------|------|-----------------------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |      |      |      |      | dN/cm <sup>2</sup> mm | daN | daN  | cmq    |        |       |
| 0   | 1  | 1     | 4185  | 285   | 664   | 3511   | 1402   | 175    | 5      | 3      | 18                | 17   | 3.0  | 2.5  | 5.0  | 2.5  | 0.1                   | 0.6 | -0.6 |        |        |       |
| 0   | 1  | 2     | 6108  | -106  | 850   | 4504   | 3699   | 1      | 5      | 6      | 17                | 18   | 4.2  | 2.5  | 7.2  | 4.9  | 0.2                   | 0.6 | -0.6 |        |        |       |
| 0   | 1  | 5     | 4753  | 299   | 820   | 3450   | 1381   | -168   | 5      | 3      | 18                | 17   | 3.0  | 2.5  | 5.0  | 2.5  | 0.1                   | 0.6 | -0.6 |        |        |       |
| 0   | 1  | 215   | 6267  | 545   | 172   | -1837  | -1196  | 589    | 3      | 3      | 18                | 15   | 3.1  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.4 | -0.4 |        |        |       |
| 0   | 1  | 225   | 5671  | 598   | 402   | -1463  | 97     | -144   | 2      | 0      | 15                | 4    | 3.1  | 2.5  | 2.5  | 2.5  | 0.1                   | 0.2 | -0.2 |        |        |       |
| 0   | 1  | 230   | -1262 | -727  | 2445  | 1130   | 98     | -37    | 6      | 0      | 67                | 1    | 2.5  | 2.5  | 2.5  | 2.5  | 0.4                   | 0.4 | -0.4 |        |        |       |
| 0   | 1  | 242   | -1482 | -724  | 1810  | 619    | 272    | -230   | 2      | 1      | 12                | 5    | 2.5  | 2.5  | 2.5  | 2.5  | 0.3                   | 0.3 | -0.3 |        |        |       |
| 0   | 1  | 243   | -1858 | -362  | 2061  | -608   | -467   | -375   | 2      | 1      | 10                | 11   | 2.5  | 2.5  | 2.5  | 2.5  | 0.3                   | 0.2 | -0.2 |        |        |       |
| 0   | 1  | 244   | -1322 | -191  | 1409  | -147   | -112   | -2     | 0      | 0      | 1                 | 2    | 2.5  | 2.5  | 2.5  | 2.5  | 0.2                   | 0.2 | -0.2 |        |        |       |
| 0   | 1  | 245   | -1591 | -291  | 890   | -220   | -313   | 170    | 1      | 1      | 1                 | 7    | 2.5  | 2.5  | 2.5  | 2.5  | 0.1                   | 0.2 | -0.2 |        |        |       |
| 0   | 1  | 246   | -1140 | -526  | 865   | 259    | 1020   | -156   | 1      | 3      | 3                 | 18   | 2.5  | 2.5  | 2.5  | 2.5  | 0.1                   | 0.3 | -0.3 |        |        |       |
| 0   | 1  | 247   | -2151 | -813  | 464   | 165    | 1023   | -9     | 0      | 3      | 0                 | 18   | 2.5  | 2.5  | 2.5  | 2.5  | 0.1                   | 0.3 | -0.3 |        |        |       |
| 0   | 1  | 248   | -6061 | -686  | 280   | -25    | 819    | 126    | 0      | 2      | 0                 | 18   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.2 | -0.2 |        |        |       |

S.L.U. - AZIONI S.L.D. - VERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 1

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | sf x              | sf y | Ax s | Ay s | Ax i | Ay i | Atag                  | ct  | eta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|------|------|------|------|-----------------------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |      |      |      |      | dN/cm <sup>2</sup> mm | daN | daN  | cmq    |        |       |
| 1   | 1  | 18    | 0     | 0     | 0     | 750    | 1201   | 96     | 2      | 3      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.6 | -0.6 |        |        |       |
| 1   | 1  | 41    | 0     | 0     | 0     | 870    | 2273   | -96    | 2      | 4      | 17                | 17   | 2.5  | 2.5  | 2.5  | 2.9  | 0.0                   | 0.4 | -0.4 |        |        |       |
| 1   | 1  | 290   | 0     | 0     | 0     | 1842   | 267    | -44    | 4      | 1      | 17                | 7    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.4 | -0.4 |        |        |       |
| 1   | 1  | 291   | 0     | 0     | 0     | -310   | -164   | -116   | 1      | 1      | 8                 | 4    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.3 | -0.3 |        |        |       |
| 1   | 1  | 292   | 0     | 0     | 0     | -601   | -257   | -36    | 2      | 1      | 15                | 7    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.2 | -0.2 |        |        |       |
| 1   | 1  | 293   | 0     | 0     | 0     | -368   | -247   | 4      | 1      | 1      | 9                 | 6    | 2.5  | 2.5  | 2.5  | 2.5  | 0.0                   | 0.1 | -0.1 |        |        |       |



Engineering & Construction



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 – fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
 UNI EN ISO 9001:2015  
 UNI EN ISO 14001:2015  
 OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

216 di/of 501

S.L.U. - AZIONI S.L.D. -VERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 1

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | sf x              | sf y | Ax s | Ay s | Ax i      | Ay i | Atag | ot  | eta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|------|------|-----------|------|------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |      |      | dN/cmq mm | daN  | daN  | cmq |      |        |        |       |
| 1   | 1  | 294   | 0     | 0     | 0     | 1522   | 326    | -223   | 3      | 1      | 17                | 8    | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 1  | 295   | 0     | 0     | 0     | -675   | -765   | -347   | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.3 | -0.3 |        |        |       |
| 1   | 1  | 296   | 0     | 0     | 0     | -714   | -859   | -225   | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.2 | -0.2 |        |        |       |
| 1   | 1  | 297   | 0     | 0     | 0     | -442   | -814   | -132   | 1      | 2      | 11                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.2 | -0.2 |        |        |       |
| 1   | 1  | 298   | 0     | 0     | 0     | 419    | 1018   | -192   | 1      | 3      | 11                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 1  | 299   | 0     | 0     | 0     | 252    | 1363   | -96    | 1      | 3      | 6                 | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 1  | 300   | 0     | 0     | 0     | 294    | 1535   | 55     | 1      | 3      | 8                 | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.4 | -0.4 |        |        |       |

S.L.U. - AZIONI S.L.D. -VERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 2

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | sf x              | sf y | Ax s | Ay s | Ax i      | Ay i | Atag | ot  | eta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|------|------|-----------|------|------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |      |      | dN/cmq mm | daN  | daN  | cmq |      |        |        |       |
| 1   | 2  | 41    | 0     | 0     | 0     | 870    | 2273   | -96    | 2      | 4      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.9  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 60    | 0     | 0     | 0     | 315    | 2118   | 1      | 1      | 4      | 8                 | 17   | 2.5  | 2.5  | 2.5       | 2.7  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 61    | 0     | 0     | 0     | 327    | 2157   | 69     | 1      | 4      | 8                 | 17   | 2.5  | 2.5  | 2.5       | 2.8  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 62    | 0     | 0     | 0     | 954    | 2745   | 10     | 3      | 5      | 17                | 18   | 2.5  | 2.5  | 2.5       | 3.5  | 0.0  | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 78    | 0     | 0     | 0     | 326    | 2147   | -41    | 1      | 4      | 8                 | 17   | 2.5  | 2.5  | 2.5       | 2.7  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 79    | 0     | 0     | 0     | 330    | 2160   | -5     | 1      | 4      | 8                 | 17   | 2.5  | 2.5  | 2.5       | 2.8  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 80    | 0     | 0     | 0     | 344    | 2134   | 5      | 1      | 4      | 9                 | 17   | 2.5  | 2.5  | 2.5       | 2.7  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 141   | 0     | 0     | 0     | 681    | 1817   | -5     | 2      | 4      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 142   | 0     | 0     | 0     | 253    | 1383   | 69     | 1      | 3      | 7                 | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 143   | 0     | 0     | 0     | 192    | 1277   | -78    | 1      | 3      | 5                 | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 144   | 0     | 0     | 0     | -356   | 926    | -247   | 1      | 2      | 9                 | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 145   | 0     | 0     | 0     | 755    | 1195   | -150   | 2      | 3      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.6 | -0.6 |        |        |       |
| 1   | 2  | 146   | 0     | 0     | 0     | -388   | -887   | -83    | 1      | 2      | 10                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.2 | -0.2 |        |        |       |
| 1   | 2  | 147   | 0     | 0     | 0     | -733   | -957   | -170   | 2      | 3      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.2 | -0.2 |        |        |       |
| 1   | 2  | 148   | 0     | 0     | 0     | -784   | -811   | -290   | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.3 | -0.3 |        |        |       |
| 1   | 2  | 149   | 0     | 0     | 0     | 1700   | 322    | -176   | 4      | 1      | 17                | 8    | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 150   | 0     | 0     | 0     | -268   | -233   | 5      | 1      | 1      | 7                 | 6    | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.1 | -0.1 |        |        |       |
| 1   | 2  | 151   | 0     | 0     | 0     | -557   | -246   | 24     | 2      | 1      | 14                | 6    | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.1 | -0.1 |        |        |       |
| 1   | 2  | 152   | 0     | 0     | 0     | -402   | -168   | 103    | 1      | 1      | 10                | 4    | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.3 | -0.3 |        |        |       |
| 1   | 2  | 153   | 0     | 0     | 0     | 1756   | 251    | 37     | 4      | 1      | 17                | 6    | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 154   | 0     | 0     | 0     | -359   | -780   | 96     | 1      | 2      | 9                 | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.2 | -0.2 |        |        |       |
| 1   | 2  | 155   | 0     | 0     | 0     | -668   | -848   | 184    | 2      | 2      | 17                | 17   | 2.5  | 2.5  | 2.5       | 2.5  | 0.0  | 0.2 | -0.2 |        |        |       |



S.L.U. - AZIONI S.L.D. -VERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 2

| Quo | P. | Nod3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | sc x   | sc y   | sf x | sf y | Ax s              | Ay s | Ax i | Ay i | Atag       | ct  | eta  | Fpunz. | FpnzLi | Apunz |
|-----|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|------|------|-------------------|------|------|------|------------|-----|------|--------|--------|-------|
| N.r | Nr | N.ro  | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 |      |      | ----- cmq/m ----- |      |      |      | dN/cm q mm | daN | daN  | cmq    |        |       |
| 1   | 2  | 156   | 0     | 0     | 0     | -733   | -775   | 316    | 2      | 2      | 17   | 17   | 2.5               | 2.5  | 2.5  | 2.5  | 0.0        | 0.3 | -0.3 |        |        |       |
| 1   | 2  | 157   | 0     | 0     | 0     | 1502   | 315    | 213    | 3      | 1      | 17   | 8    | 2.5               | 2.5  | 2.5  | 2.5  | 0.0        | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 158   | 0     | 0     | 0     | 276    | 1484   | -66    | 1      | 3      | 7    | 17   | 2.5               | 2.5  | 2.5  | 2.5  | 0.0        | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 159   | 0     | 0     | 0     | 230    | 1353   | 73     | 1      | 3      | 6    | 17   | 2.5               | 2.5  | 2.5  | 2.5  | 0.0        | 0.4 | -0.4 |        |        |       |
| 1   | 2  | 160   | 0     | 0     | 0     | 365    | 1001   | 193    | 1      | 3      | 9    | 17   | 2.5               | 2.5  | 2.5  | 2.5  | 0.0        | 0.5 | -0.5 |        |        |       |
| 1   | 2  | 161   | 0     | 0     | 0     | 536    | 1335   | 96     | 2      | 3      | 14   | 17   | 2.5               | 2.5  | 2.5  | 2.5  | 0.0        | 0.5 | -0.5 |        |        |       |

S.L.E. - VERIFICA FESSURAZIONEVERIFICA PUNZONAMENTO PIASTRE - QUOTA: 0 ELEMENTO: 1

|     |     |      | FESSURAZIONI |      |      |     |    |       |       |      |      |       | TENSIONI |         | DIREZIONE X |         |         | DIREZIONE Y |       |        |         |      |       |       |
|-----|-----|------|--------------|------|------|-----|----|-------|-------|------|------|-------|----------|---------|-------------|---------|---------|-------------|-------|--------|---------|------|-------|-------|
| Quo | Per | Nodo | Comb.        | Fes. | Fess | dis | Co | MfX   | NX    | MfY  | NY   | cos   | sin      | Combina | σ lim.      | σ cal.  | Co      | Mf          | N     | σ cal. | Co      | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim  | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm   | mb    | dkN*m    | kN/10   | Carico      | dN/cm q | dN/cm q | mb          | dkN*m | kN/10  | dN/cm q | mb   | dkN*m | kN/10 |
| 0   | 1   | 1    | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 49.8    | 12      | 2.6         | 3.1   | 20.6   | 12      | 1.0  | 0.2   |       |
|     |     |      | Freq         | 0.4  | 0.00 | 0   | 2  | 2.4   | 3.1   | 1.0  | 0.1  | 0.000 | 0.000    | RaraFer | 3600        | 2719    | 12      | 2.6         | 3.1   | 988    | 12      | 1.0  | 0.2   |       |
|     |     |      | Perm         | 0.3  | 0.00 | 0   | 1  | 2.4   | 3.0   | 1.0  | 0.1  | 0.000 | 0.000    | PermCls | 90.0        | 45.8    | 1       | 2.4         | 3.0   | 19.3   | 1       | 1.0  | 0.1   |       |
| 0   | 1   | 2    | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 51.9    | 12      | 3.4         | 4.6   | 44.2   | 12      | 2.8  | -0.1  |       |
|     |     |      | Freq         | 0.4  | 0.11 | 176 | 2  | 3.1   | 4.4   | 2.6  | -0.2 | 1.000 | 0.000    | RaraFer | 3600        | 2397    | 12      | 3.4         | 4.6   | 1733   | 12      | 2.8  | -0.1  |       |
|     |     |      | Perm         | 0.3  | 0.00 | 0   | 1  | 3.1   | 4.3   | 2.6  | -0.2 | 0.000 | 0.000    | PermCls | 90.0        | 48.1    | 1       | 3.1         | 4.3   | 41.5   | 1       | 2.6  | -0.2  |       |
| 0   | 1   | 5    | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 48.4    | 12      | 2.6         | 3.6   | 20.3   | 12      | 1.0  | 0.2   |       |
|     |     |      | Freq         | 0.4  | 0.00 | 0   | 2  | 2.4   | 3.4   | 1.0  | 0.2  | 0.000 | 0.000    | RaraFer | 3600        | 2720    | 12      | 2.6         | 3.6   | 974    | 12      | 1.0  | 0.2   |       |
|     |     |      | Perm         | 0.3  | 0.00 | 0   | 1  | 2.4   | 3.4   | 1.0  | 0.2  | 0.000 | 0.000    | PermCls | 90.0        | 44.5    | 1       | 2.4         | 3.4   | 19.0   | 1       | 1.0  | 0.2   |       |
| 0   | 1   | 215  | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 23.9    | 12      | -1.4        | 4.7   | 17.8   | 12      | -0.9 | 0.4   |       |
|     |     |      | Freq         | 0.4  | 0.00 | 0   | 6  | -1.3  | 4.5   | -0.8 | 0.4  | 0.000 | 0.000    | RaraFer | 3600        | 1930    | 12      | -1.4        | 4.7   | 957    | 12      | -0.9 | 0.4   |       |
|     |     |      | Perm         | 0.3  | 0.00 | 0   | 1  | -1.3  | 4.5   | -0.8 | 0.4  | 0.000 | 0.000    | PermCls | 90.0        | 21.8    | 1       | -1.3        | 4.5   | 16.4   | 1       | -0.8 | 0.4   |       |
| 0   | 1   | 225  | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 19.5    | 12      | -1.1        | 4.3   | 1.7    | 12      | 0.1  | 0.4   |       |
|     |     |      | Freq         | 0.4  | 0.00 | 0   | 2  | -1.0  | 4.1   | 0.0  | 0.4  | 0.000 | 0.000    | RaraFer | 3600        | 1592    | 12      | -1.1        | 4.3   | 223    | 6       | 0.1  | 0.4   |       |
|     |     |      | Perm         | 0.3  | 0.00 | 0   | 1  | -1.0  | 4.1   | 0.0  | 0.4  | 0.000 | 0.000    | PermCls | 90.0        | 17.8    | 1       | -1.0        | 4.1   | 1.6    | 1       | 0.1  | 0.4   |       |
| 0   | 1   | 230  | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 16.6    | 12      | 0.8         | -0.9  | 1.0    | 8       | 0.1  | -1.2  |       |
|     |     |      | Freq         | 0.4  | 0.00 | 0   | 2  | 0.8   | -0.9  | 0.1  | -1.1 | 0.000 | 0.000    | RaraFer | 3600        | 693     | 12      | 0.8         | -0.9  | 10     | 6       | 0.1  | -1.2  |       |
|     |     |      | Perm         | 0.3  | 0.00 | 0   | 1  | 0.8   | -0.9  | 0.1  | -1.1 | 0.000 | 0.000    | PermCls | 90.0        | 15.5    | 1       | 0.8         | -0.9  | 1.0    | 1       | 0.1  | -1.1  |       |
| 0   | 1   | 242  | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 12.7    | 12      | 0.5         | -1.1  | 6.4    | 12      | 0.3  | -1.1  |       |
|     |     |      | Freq         | 0.4  | 0.00 | 0   | 2  | 0.4   | -1.1  | 0.2  | -1.0 | 0.000 | 0.000    | RaraFer | 3600        | 620     | 12      | 0.5         | -1.1  | 247    | 12      | 0.3  | -1.1  |       |
|     |     |      | Perm         | 0.3  | 0.00 | 0   | 1  | 0.4   | -1.1  | 0.2  | -1.0 | 0.000 | 0.000    | PermCls | 90.0        | 12.0    | 1       | 0.4         | -1.1  | 6.0    | 1       | 0.2  | -1.0  |       |
| 0   | 1   | 243  | Rara         |      |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 12.2    | 12      | -0.5        | -1.4  | 9.5    | 6       | -0.3 | -0.3  |       |



Engineering & Construction



GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

218 di/of 501

S.L.E. - VERIFICA FESSURAZIONEVERIFICA PUNZONAMENTO PIASTRE - QUOTA: 0 ELEMENTO: 1

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |      |       | TENSIONI |         | DIREZIONE X |                    |                    | DIREZIONE Y |       |        |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|------|-------|----------|---------|-------------|--------------------|--------------------|-------------|-------|--------|--------------------|------|-------|-------|
| Quo | Per | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY  | NY   | cos   | sin      | Combina | σ lim.      | σ cal.             | Co                 | Mf          | N     | σ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm   | mb    | dkN*m    | kN/10   | Carico      | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb          | dkN*m | kN/10  | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.4  | -1.4  | -0.3 | -0.3 | 0.000 | 0.000    | RaraFer | 3600        | 556                | 12                 | -0.5        | -1.4  | 579    | 6                  | -0.3 | -0.3  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.4  | -1.3  | -0.3 | -0.3 | 0.000 | 0.000    | PermCls | 90.0        | 11.5               | 1                  | -0.4        | -1.3  | 9.0    | 1                  | -0.3 | -0.3  |       |
| 0   | 1   | 244  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 2.5                | 12                 | -0.2        | -2.1  | 1.6    | 8                  | -0.1 | -0.3  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | -0.1  | -2.0  | -0.1 | -0.3 | 0.000 | 0.000    | RaraFer | 3600        | 24                 | 12                 | -0.2        | -2.1  | 65     | 8                  | -0.1 | -0.3  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -2.0  | -0.1 | -0.3 | 0.000 | 0.000    | PermCls | 90.0        | 2.4                | 1                  | -0.1        | -2.0  | 1.2    | 1                  | -0.1 | -0.3  |       |
| 0   | 1   | 245  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 5.0                | 14                 | -0.3        | -2.4  | 6.2    | 8                  | -0.2 | -0.2  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | -0.2  | -2.4  | -0.2 | -0.2 | 0.000 | 0.000    | RaraFer | 3600        | 71                 | 14                 | -0.3        | -2.4  | 367    | 8                  | -0.2 | -0.2  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.2  | -2.4  | -0.2 | -0.3 | 0.000 | 0.000    | PermCls | 90.0        | 4.5                | 1                  | -0.2        | -2.4  | 5.6    | 1                  | -0.2 | -0.3  |       |
| 0   | 1   | 246  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 5.9                | 14                 | 0.3         | -1.9  | 20.5   | 12                 | 0.8  | -0.4  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.3   | -2.0  | 0.7  | -0.3 | 0.000 | 0.000    | RaraFer | 3600        | 133                | 14                 | 0.3         | -1.9  | 1308   | 12                 | 0.8  | -0.4  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.3   | -2.0  | 0.7  | -0.3 | 0.000 | 0.000    | PermCls | 90.0        | 5.5                | 1                  | 0.3         | -2.0  | 19.2   | 1                  | 0.7  | -0.3  |       |
| 0   | 1   | 247  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 2.8                | 6                  | 0.1         | -3.9  | 20.7   | 12                 | 0.8  | -0.6  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | 0.1   | -3.5  | 0.7  | -0.5 | 0.000 | 0.000    | RaraFer | 3600        | 27                 | 6                  | 0.1         | -3.9  | 1268   | 12                 | 0.8  | -0.6  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -3.5  | 0.7  | -0.5 | 0.000 | 0.000    | PermCls | 90.0        | 2.7                | 1                  | 0.1         | -3.5  | 19.3   | 1                  | 0.7  | -0.5  |       |
| 0   | 1   | 248  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0       | 3.3                | 6                  | 0.2         | -4.5  | 16.7   | 12                 | 0.6  | -0.5  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | 0.2   | -4.1  | 0.6  | -0.5 | 0.000 | 0.000    | RaraFer | 3600        | 32                 | 6                  | 0.2         | -4.5  | 1015   | 12                 | 0.6  | -0.5  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | -4.1  | 0.6  | -0.5 | 0.000 | 0.000    | PermCls | 90.0        | 3.1                | 1                  | 0.2         | -4.1  | 15.6   | 1                  | 0.6  | -0.5  |       |

S.L.E. - VERIFICA FESSURAZIONEVERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 1

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |     |     |       | TENSIONI |         | DIREZIONE X |                    |                    | DIREZIONE Y |       |        |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|-----|-----|-------|----------|---------|-------------|--------------------|--------------------|-------------|-------|--------|--------------------|------|-------|-------|
| Quo | Per | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY | NY  | cos   | sin      | Combina | σ lim.      | σ cal.             | Co                 | Mf          | N     | σ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm  | mm  | mb    | dkN*m    | kN/10   | Carico      | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb          | dkN*m | kN/10  | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
| 1   | 1   | 18   | Rara         |     |      |     |    |       |       |     |     |       |          | RaraCls | 120.0       | 13.2               | 14                 | 0.5         | 0.0   | 14.5   | 8                  | 0.5  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.4   | 0.0   | 0.4 | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 897                | 14                 | 0.5         | 0.0   | 985    | 8                  | 0.5  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.4   | 0.0   | 0.4 | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 11.4               | 1                  | 0.4         | 0.0   | 11.3   | 1                  | 0.4  | 0.0   |       |
| 1   | 1   | 41   | Rara         |     |      |     |    |       |       |     |     |       |          | RaraCls | 120.0       | 14.4               | 12                 | 0.6         | 0.0   | 37.0   | 6                  | 1.7  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.6   | 0.0   | 1.6 | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 714                | 12                 | 0.6         | 0.0   | 1874   | 6                  | 1.7  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.6   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 13.0               | 1                  | 0.6         | 0.0   | 33.5   | 1                  | 1.5  | 0.0   |       |
| 1   | 1   | 290  | Rara         |     |      |     |    |       |       |     |     |       |          | RaraCls | 120.0       | 36.4               | 12                 | 1.4         | 0.0   | 5.4    | 14                 | 0.2  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 1.3   | 0.0   | 0.2 | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 2528               | 12                 | 1.4         | 0.0   | 367    | 14                 | 0.2  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 1.3   | 0.0   | 0.2 | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 34.4               | 1                  | 1.3         | 0.0   | 5.1    | 1                  | 0.2  | 0.0   |       |
| 1   | 1   | 291  | Rara         |     |      |     |    |       |       |     |     |       |          | RaraCls | 120.0       | 6.2                | 14                 | -0.2        | 0.0   | 2.8    | 14                 | -0.1 | 0.0   |       |

S.L.E. - VERIFICA FESSURAZIONEVERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 1

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |     |       | TENSIONI |         | DIREZIONE X   |                    |                    |      |       | DIREZIONE Y   |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|-----|-------|----------|---------|---------------|--------------------|--------------------|------|-------|---------------|--------------------|------|-------|-------|
| Quo | Per | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MFY  | NY  | cos   | sin      | Combina | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf   | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm  | mb    | dkN*m    | kN/10   | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | -0.2  | 0.0   | -0.1 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 422                | 14                 | -0.2 | 0.0   | 187           | 14                 | -0.1 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.2  | 0.0   | -0.1 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 5.7                | 1                  | -0.2 | 0.0   | 2.3           | 1                  | -0.1 | 0.0   |       |
| 1   | 1   | 292  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 12.1               | 12                 | -0.5 | 0.0   | 5.2           | 12                 | -0.2 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.4  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 823                | 12                 | -0.5 | 0.0   | 350           | 12                 | -0.2 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.4  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 11.3               | 1                  | -0.4 | 0.0   | 4.7           | 1                  | -0.2 | 0.0   |       |
| 1   | 1   | 293  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 7.4                | 9                  | -0.3 | 0.0   | 5.0           | 9                  | -0.2 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.3  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 504                | 9                  | -0.3 | 0.0   | 338           | 9                  | -0.2 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.3  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 7.0                | 1                  | -0.3 | 0.0   | 4.7           | 1                  | -0.2 | 0.0   |       |
| 1   | 1   | 294  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 30.3               | 6                  | 1.1  | 0.0   | 6.6           | 14                 | 0.2  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 1.1   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 2088               | 6                  | 1.1  | 0.0   | 446           | 14                 | 0.2  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 1.1   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 28.4               | 1                  | 1.1  | 0.0   | 5.9           | 1                  | 0.2  | 0.0   |       |
| 1   | 1   | 295  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 13.6               | 9                  | -0.5 | 0.0   | 15.4          | 9                  | -0.6 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.5  | 0.0   | -0.5 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 925                | 9                  | -0.5 | 0.0   | 1047          | 9                  | -0.6 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.5  | 0.0   | -0.5 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 12.8               | 1                  | -0.5 | 0.0   | 14.4          | 1                  | -0.5 | 0.0   |       |
| 1   | 1   | 296  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 14.3               | 6                  | -0.5 | 0.0   | 17.2          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.5  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 977                | 6                  | -0.5 | 0.0   | 1174          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.5  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 13.3               | 1                  | -0.5 | 0.0   | 15.9          | 1                  | -0.6 | 0.0   |       |
| 1   | 1   | 297  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 8.9                | 6                  | -0.3 | 0.0   | 16.3          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.3  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 603                | 6                  | -0.3 | 0.0   | 1110          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.3  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 8.1                | 1                  | -0.3 | 0.0   | 14.9          | 1                  | -0.6 | 0.0   |       |
| 1   | 1   | 298  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 8.4                | 12                 | 0.3  | 0.0   | 20.3          | 6                  | 0.8  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.3   | 0.0   | 0.7  | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 571                | 12                 | 0.3  | 0.0   | 1390          | 6                  | 0.8  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.3   | 0.0   | 0.7  | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 7.7                | 1                  | 0.3  | 0.0   | 18.9          | 1                  | 0.7  | 0.0   |       |
| 1   | 1   | 299  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 5.1                | 12                 | 0.2  | 0.0   | 27.1          | 12                 | 1.0  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.0  | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 346                | 12                 | 0.2  | 0.0   | 1862          | 12                 | 1.0  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.0  | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 4.9                | 1                  | 0.2  | 0.0   | 25.1          | 1                  | 1.0  | 0.0   |       |
| 1   | 1   | 300  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 5.4                | 12                 | 0.2  | 0.0   | 30.3          | 12                 | 1.2  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.1  | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 365                | 12                 | 0.2  | 0.0   | 2095          | 12                 | 1.2  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.1  | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 5.0                | 1                  | 0.2  | 0.0   | 28.0          | 1                  | 1.1  | 0.0   |       |

S.L.E. - VERIFICA FESSURAZIONEVERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 2

|  |  |  | FESSURAZIONI |  |  |  |  |  |  |  |  |  | TENSIONI |  | DIREZIONE X |  |  |  |  | DIREZIONE Y |  |  |  |
|--|--|--|--------------|--|--|--|--|--|--|--|--|--|----------|--|-------------|--|--|--|--|-------------|--|--|--|
|--|--|--|--------------|--|--|--|--|--|--|--|--|--|----------|--|-------------|--|--|--|--|-------------|--|--|--|

| Quo | Per | Nodo | Comb. | Fes | Fess | dis | Co | MFX   | NX    | MFY | NY  | cos   | sin   | Combina | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf  | N     | $\sigma$ cal. | Co                 | Mf  | N     |       |
|-----|-----|------|-------|-----|------|-----|----|-------|-------|-----|-----|-------|-------|---------|---------------|--------------------|--------------------|-----|-------|---------------|--------------------|-----|-------|-------|
| N.r | N.r | N.ro | Cari  | lim | mm   | mm  | mb | dkN*m | kN/10 | mm  | mm  | mb    | dkN*m | kN/10   | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb  | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb  | dkN*m | kN/10 |
| 1   | 2   | 41   | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 14.4               | 12                 | 0.6 | 0.0   | 37.0          | 6                  | 1.7 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.6   | 0.0   | 1.6 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 714                | 12                 | 0.6 | 0.0   | 1874          | 6                  | 1.7 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.6   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 13.0               | 1                  | 0.6 | 0.0   | 33.5          | 1                  | 1.5 | 0.0   |       |
| 1   | 2   | 60   | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 5.3                | 12                 | 0.2 | 0.0   | 34.7          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 261                | 12                 | 0.2 | 0.0   | 1752          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 4.9                | 1                  | 0.2 | 0.0   | 31.9          | 1                  | 1.5 | 0.0   |       |
| 1   | 2   | 61   | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 5.3                | 12                 | 0.2 | 0.0   | 35.2          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 262                | 12                 | 0.2 | 0.0   | 1781          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 4.9                | 1                  | 0.2 | 0.0   | 31.9          | 1                  | 1.5 | 0.0   |       |
| 1   | 2   | 62   | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 15.8               | 12                 | 0.7 | 0.0   | 44.3          | 6                  | 2.0 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.6   | 0.0   | 1.9 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 782                | 12                 | 0.7 | 0.0   | 2261          | 6                  | 2.0 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.6   | 0.0   | 1.8 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 14.2               | 1                  | 0.6 | 0.0   | 40.0          | 1                  | 1.8 | 0.0   |       |
| 1   | 2   | 78   | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 5.2                | 6                  | 0.2 | 0.0   | 35.1          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 255                | 6                  | 0.2 | 0.0   | 1773          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.4 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 4.7                | 1                  | 0.2 | 0.0   | 31.7          | 1                  | 1.4 | 0.0   |       |
| 1   | 2   | 79   | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 5.6                | 12                 | 0.2 | 0.0   | 35.3          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 273                | 12                 | 0.2 | 0.0   | 1785          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 5.1                | 1                  | 0.2 | 0.0   | 32.3          | 1                  | 1.5 | 0.0   |       |
| 1   | 2   | 80   | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 5.8                | 6                  | 0.3 | 0.0   | 34.9          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 285                | 6                  | 0.3 | 0.0   | 1763          | 12                 | 1.6 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.5 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 5.3                | 1                  | 0.2 | 0.0   | 31.8          | 1                  | 1.5 | 0.0   |       |
| 1   | 2   | 141  | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 13.5               | 12                 | 0.5 | 0.0   | 35.6          | 6                  | 1.4 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.5   | 0.0   | 1.2 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 922                | 12                 | 0.5 | 0.0   | 2469          | 6                  | 1.4 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.5   | 0.0   | 1.2 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 12.1               | 1                  | 0.5 | 0.0   | 32.2          | 1                  | 1.2 | 0.0   |       |
| 1   | 2   | 142  | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 3.6                | 6                  | 0.1 | 0.0   | 27.4          | 6                  | 1.0 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.1   | 0.0   | 1.0 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 246                | 6                  | 0.1 | 0.0   | 1887          | 6                  | 1.0 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.1   | 0.0   | 1.0 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 3.4                | 1                  | 0.1 | 0.0   | 25.2          | 1                  | 1.0 | 0.0   |       |
| 1   | 2   | 143  | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 3.9                | 6                  | 0.1 | 0.0   | 25.4          | 6                  | 1.0 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.1   | 0.0   | 0.9 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 264                | 6                  | 0.1 | 0.0   | 1746          | 6                  | 1.0 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.1   | 0.0   | 0.9 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 3.7                | 1                  | 0.1 | 0.0   | 23.6          | 1                  | 0.9 | 0.0   |       |
| 1   | 2   | 144  | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 5.9                | 6                  | 0.2 | 0.0   | 18.5          | 12                 | 0.7 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 0.7 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 396                | 6                  | 0.2 | 0.0   | 1266          | 12                 | 0.7 | 0.0   |       |
|     |     |      | Perm  | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 0.6 | 0.0 | 0.000 | 0.000 | PermCls | 90.0          | 5.4                | 1                  | 0.2 | 0.0   | 17.3          | 1                  | 0.6 | 0.0   |       |
| 1   | 2   | 145  | Rara  |     |      |     |    |       |       |     |     |       |       | RaraCls | 120.0         | 12.7               | 14                 | 0.5 | 0.0   | 14.7          | 8                  | 0.5 | 0.0   |       |
|     |     |      | Freq  | 0.4 | 0.00 | 0   | 4  | 0.4   | 0.0   | 0.5 | 0.0 | 0.000 | 0.000 | RaraFer | 3600          | 866                | 14                 | 0.5 | 0.0   | 1000          | 8                  | 0.5 | 0.0   |       |



Engineering & Construction



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 – fax (+39) 0805619384  
 AZIENDA CON SISTEMA GESTIONE  
 UNI EN ISO 9001:2015  
 UNI EN ISO 14001:2015  
 OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

221 di/of 501

S.L.E. - VERIFICA FESSURAZIONE/VERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 2

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |     |       | TENSIONI |         | DIREZIONE X   |                    |                    |      |       | DIREZIONE Y   |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|-----|-------|----------|---------|---------------|--------------------|--------------------|------|-------|---------------|--------------------|------|-------|-------|
| Quo | Per | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY  | NY  | cos   | sin      | Combina | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf   | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm  | mb    | dkN*m    | kN/10   | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.4   | 0.0   | 0.4  | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 10.8               | 1                  | 0.4  | 0.0   | 11.5          | 1                  | 0.4  | 0.0   |       |
| 1   | 2   | 146  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 7.8                | 12                 | -0.3 | 0.0   | 17.7          | 12                 | -0.7 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.3  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 528                | 12                 | -0.3 | 0.0   | 1208          | 12                 | -0.7 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.3  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 7.1                | 1                  | -0.3 | 0.0   | 16.2          | 1                  | -0.6 | 0.0   |       |
| 1   | 2   | 147  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 14.7               | 12                 | -0.6 | 0.0   | 19.1          | 12                 | -0.7 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.5  | 0.0   | -0.7 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 1001               | 12                 | -0.6 | 0.0   | 1307          | 12                 | -0.7 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.5  | 0.0   | -0.7 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 13.6               | 1                  | -0.5 | 0.0   | 17.6          | 1                  | -0.7 | 0.0   |       |
| 1   | 2   | 148  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 15.7               | 12                 | -0.6 | 0.0   | 16.3          | 12                 | -0.6 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.6  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 1073               | 12                 | -0.6 | 0.0   | 1109          | 12                 | -0.6 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.6  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 14.8               | 1                  | -0.6 | 0.0   | 15.2          | 1                  | -0.6 | 0.0   |       |
| 1   | 2   | 149  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 33.6               | 12                 | 1.3  | 0.0   | 6.5           | 8                  | 0.2  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 1.2   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 2329               | 12                 | 1.3  | 0.0   | 442           | 8                  | 0.2  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 1.2   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 31.4               | 1                  | 1.2  | 0.0   | 5.9           | 1                  | 0.2  | 0.0   |       |
| 1   | 2   | 150  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 5.4                | 3                  | -0.2 | 0.0   | 4.7           | 12                 | -0.2 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.2  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 367                | 3                  | -0.2 | 0.0   | 318           | 12                 | -0.2 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.2  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 5.1                | 1                  | -0.2 | 0.0   | 4.4           | 1                  | -0.2 | 0.0   |       |
| 1   | 2   | 151  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 11.2               | 12                 | -0.4 | 0.0   | 5.0           | 12                 | -0.2 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.4  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 764                | 12                 | -0.4 | 0.0   | 336           | 12                 | -0.2 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.4  | 0.0   | -0.2 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 10.5               | 1                  | -0.4 | 0.0   | 4.6           | 1                  | -0.2 | 0.0   |       |
| 1   | 2   | 152  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 8.1                | 12                 | -0.3 | 0.0   | 2.9           | 14                 | -0.1 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | -0.3  | 0.0   | -0.1 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 549                | 12                 | -0.3 | 0.0   | 193           | 14                 | -0.1 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.3  | 0.0   | -0.1 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 7.4                | 1                  | -0.3 | 0.0   | 2.4           | 1                  | -0.1 | 0.0   |       |
| 1   | 2   | 153  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 34.8               | 12                 | 1.3  | 0.0   | 5.1           | 14                 | 0.2  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 1.3   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 2410               | 12                 | 1.3  | 0.0   | 345           | 14                 | 0.2  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 1.2   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 32.8               | 1                  | 1.2  | 0.0   | 4.8           | 1                  | 0.2  | 0.0   |       |
| 1   | 2   | 154  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 7.2                | 6                  | -0.3 | 0.0   | 15.6          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.2  | 0.0   | -0.5 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 489                | 6                  | -0.3 | 0.0   | 1063          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.2  | 0.0   | -0.5 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 6.6                | 1                  | -0.2 | 0.0   | 14.2          | 1                  | -0.5 | 0.0   |       |
| 1   | 2   | 155  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 13.4               | 6                  | -0.5 | 0.0   | 17.0          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.5  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 914                | 6                  | -0.5 | 0.0   | 1158          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.5  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | PermCls | 90.0          | 12.4               | 1                  | -0.5 | 0.0   | 15.6          | 1                  | -0.6 | 0.0   |       |
| 1   | 2   | 156  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0         | 14.7               | 6                  | -0.6 | 0.0   | 15.6          | 6                  | -0.6 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.5  | 0.0   | -0.6 | 0.0 | 0.000 | 0.000    | RaraFer | 3600          | 1005               | 6                  | -0.6 | 0.0   | 1061          | 6                  | -0.6 | 0.0   |       |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
 www.bfpgroup.net - info@bfpgroup.net  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
 AZIENDA CON SISTEMA GESTIONE  
 UNI EN ISO 9001:2015  
 UNI EN ISO 14001:2015  
 OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

222 di/of 501

S.L.E. - VERIFICA FESSURAZIONE/VERIFICA PUNZONAMENTO PIASTRE - QUOTA: 1 ELEMENTO: 2

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |     |       | TENSIONI |         | DIREZIONE X |                    |                    |      | DIREZIONE Y |        |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|-----|-------|----------|---------|-------------|--------------------|--------------------|------|-------------|--------|--------------------|------|-------|-------|
| Quo | Per | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MFY  | NY  | cos   | sin      | Combina | σ lim.      | σ cal.             | Co                 | Mf   | N           | σ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm  | mb    | dkN*m    | kN/10   | Carico      | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb   | dkN*m       | kN/10  | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.5  | 0.0   | -0.5 | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 13.8               | 1                  | -0.5 | 0.0         | 14.5   | 1                  | -0.5 | 0.0   |       |
| 1   | 2   | 157  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0       | 29.8               | 6                  | 1.1  | 0.0         | 6.4    | 14                 | 0.2  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 1.1   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 2059               | 6                  | 1.1  | 0.0         | 431    | 14                 | 0.2  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 1.1   | 0.0   | 0.2  | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 27.9               | 1                  | 1.1  | 0.0         | 5.8    | 1                  | 0.2  | 0.0   |       |
| 1   | 2   | 158  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0       | 4.5                | 12                 | 0.2  | 0.0         | 29.4   | 12                 | 1.1  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.0  | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 306                | 12                 | 0.2  | 0.0         | 2025   | 12                 | 1.1  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 1.0  | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 4.2                | 1                  | 0.2  | 0.0         | 27.0   | 1                  | 1.0  | 0.0   |       |
| 1   | 2   | 159  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0       | 4.7                | 12                 | 0.2  | 0.0         | 26.9   | 12                 | 1.0  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.2   | 0.0   | 1.0  | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 316                | 12                 | 0.2  | 0.0         | 1849   | 12                 | 1.0  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 0.9  | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 4.4                | 1                  | 0.2  | 0.0         | 24.9   | 1                  | 0.9  | 0.0   |       |
| 1   | 2   | 160  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0       | 7.4                | 12                 | 0.3  | 0.0         | 20.0   | 6                  | 0.8  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.3   | 0.0   | 0.7  | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 499                | 12                 | 0.3  | 0.0         | 1368   | 6                  | 0.8  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.3   | 0.0   | 0.7  | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 6.8                | 1                  | 0.3  | 0.0         | 18.6   | 1                  | 0.7  | 0.0   |       |
| 1   | 2   | 161  | Rara         |     |      |     |    |       |       |      |     |       |          | RaraCls | 120.0       | 6.6                | 8                  | 0.2  | 0.0         | 18.2   | 14                 | 0.7  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | 0.2   | 0.0   | 0.6  | 0.0 | 0.000 | 0.000    | RaraFer | 3600        | 444                | 8                  | 0.2  | 0.0         | 1246   | 14                 | 0.7  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | 0.0   | 0.6  | 0.0 | 0.000 | 0.000    | PermCls | 90.0        | 4.8                | 1                  | 0.2  | 0.0         | 14.9   | 1                  | 0.6  | 0.0   |       |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 1

| Gr.Q | Gen | Nodo 3d | Nx    | Ny     | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x | εf y | Ax s.             | Ay s. | Ax i. | Ay i. | Atag.              | σt   | eta  |
|------|-----|---------|-------|--------|-------|--------|--------|--------|--------|--------|------|------|-------------------|-------|-------|-------|--------------------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m  | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 |      |      | ----- cmq/m ----- |       |       |       | dN/cm <sup>2</sup> | mm   |      |
| 1    | 1   | 2       | 8379  | -10318 | 194   | -326   | -886   | -9     | 8      | 1      | 19   | 1    | 2.5               | 2.5   | 2.5   | 2.5   | 0.0                | 0.66 | -0.7 |
| 1    | 1   | 18      | -736  | -4131  | 2918  | 1812   | 7048   | -503   | 3      | 8      | 13   | 17   | 4.0               | 9.3   | 3.4   | 9.6   | 0.4                | 0.65 | -0.7 |
| 1    | 1   | 144     | -23   | -1068  | 7889  | -591   | -2269  | 171    | 2      | 4      | 15   | 14   | 2.5               | 4.6   | 2.5   | 4.6   | 1.0                | 0.58 | -0.6 |
| 1    | 1   | 145     | -904  | -4429  | 3102  | -1611  | 6782   | 494    | 3      | 7      | 13   | 16   | 3.2               | 8.8   | 3.3   | 9.4   | 0.4                | 0.62 | -0.6 |
| 1    | 1   | 162     | -736  | -4131  | 10416 | 2797   | 11196  | -697   | 5      | 11     | 18   | 23   | 4.5               | 14.5  | 4.7   | 14.6  | 1.3                |      | -0.7 |
| 1    | 1   | 163     | -2821 | -11091 | 568   | -1365  | -6750  | 19     | 4      | 12     | 17   | 46   | 2.5               | 7.2   | 2.6   | 8.5   | 0.4                |      | -0.6 |
| 1    | 1   | 164     | -1863 | -7593  | 15707 | -1040  | -5076  | -31    | 3      | 7      | 14   | 18   | 3.3               | 7.5   | 3.8   | 7.9   | 2.0                |      | -0.6 |
| 1    | 1   | 166     | -4117 | -16435 | 1318  | 1149   | -5007  | 2      | 4      | 7      | 18   | 16   | 2.5               | 5.1   | 2.5   | 6.9   | 0.4                |      | -0.7 |
| 1    | 1   | 167     | -1875 | -7478  | 17120 | 856    | -4237  | 3      | 3      | 6      | 17   | 17   | 3.0               | 6.7   | 3.0   | 7.3   | 2.2                |      | -0.6 |
| 1    | 1   | 168     | -2818 | -11130 | 2684  | -1102  | -5426  | -21    | 3      | 8      | 13   | 21   | 2.5               | 5.6   | 2.5   | 7.9   | 0.4                |      | -0.6 |
| 1    | 1   | 169     | -2747 | -10884 | 1292  | -1195  | -5906  | 17     | 3      | 8      | 14   | 19   | 2.5               | 6.3   | 2.5   | 8.1   | 0.4                |      | -0.6 |
| 1    | 1   | 170     | -2689 | -10663 | 948   | -1296  | -6424  | -14    | 3      | 8      | 16   | 18   | 2.5               | 7.0   | 2.5   | 8.7   | 0.4                |      | -0.6 |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 1

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.  | σt   | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cmq | mm   |      |
| 1    | 1   | 171     | -904  | -4429 | 10097 | -2598  | -10982 | -502   | 5      | 11     | 18                | 24   | 4.4   | 14.2  | 4.6   | 14.4  | 1.3    |      | -0.7 |
| 1    | 1   | 251     | 10266 | 3180  | 1010  | -161   | 351    | -102   | 13     | 1      | 18                | 18   | 2.5   | 2.5   | 2.5   | 2.5   | 0.1    |      | -0.7 |
| 1    | 1   | 283     | 37    | -1151 | 8411  | 611    | -2211  | 289    | 2      | 4      | 16                | 14   | 2.5   | 4.5   | 2.5   | 4.5   | 1.1    | 0.62 | -0.6 |
| 1    | 1   | 301     | 37    | -1151 | 13685 | 634    | -2718  | 176    | 2      | 5      | 15                | 18   | 3.6   | 4.9   | 2.7   | 4.8   | 1.7    |      | -0.6 |
| 1    | 1   | 306     | 44    | -843  | 13137 | -410   | -1335  | 179    | 1      | 3      | 11                | 18   | 2.5   | 3.2   | 2.5   | 3.1   | 1.7    |      | -0.6 |
| 1    | 1   | 307     | -40   | 494   | 14154 | -253   | -726   | -134   | 1      | 2      | 6                 | 13   | 2.6   | 3.1   | 2.6   | 3.6   | 1.8    |      | -0.7 |
| 1    | 1   | 315     | -22   | 514   | 15659 | 218    | 625    | -116   | 1      | 2      | 6                 | 18   | 2.8   | 2.8   | 2.8   | 2.8   | 2.0    |      | -0.6 |
| 1    | 1   | 316     | 653   | 3267  | 9288  | -484   | 1372   | 173    | 1      | 2      | 14                | 13   | 2.5   | 4.6   | 2.5   | 4.1   | 1.2    |      | -0.7 |
| 1    | 1   | 319     | 0     | -818  | 15792 | -345   | 1114   | 114    | 1      | 3      | 9                 | 18   | 2.9   | 3.3   | 2.9   | 3.2   | 2.0    |      | -0.6 |
| 1    | 1   | 330     | -23   | -1068 | 12741 | 682    | 2691   | -180   | 2      | 5      | 17                | 18   | 2.6   | 4.9   | 2.5   | 4.8   | 1.6    |      | -0.6 |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 2

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.  | σt   | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cmq | mm   |      |
| 1    | 2   | 11      | -733  | -4600 | 11265 | -351   | -1396  | 90     | 1      | 3      | 7                 | 11   | 20.2  | 21.2  | 20.2  | 20.7  | 19.4   | 0.62 | -0.6 |
| 1    | 2   | 164     | -1782 | -7563 | 20511 | 1218   | 5212   | -220   | 3      | 7      | 17                | 19   | 21.2  | 24.7  | 20.7  | 24.8  | 19.4   |      | -0.6 |
| 1    | 2   | 181     | -892  | -5601 | 18945 | 528    | 2569   | 16     | 2      | 5      | 11                | 16   | 20.2  | 20.8  | 20.2  | 22.2  | 19.4   |      | -0.4 |
| 1    | 2   | 361     | 279   | 2032  | 22472 | -403   | -1676  | -84    | 1      | 3      | 11                | 15   | 20.2  | 22.2  | 20.2  | 21.2  | 19.4   |      | -0.5 |
| 1    | 2   | 362     | 144   | 4246  | 18031 | -160   | -701   | -27    | 0      | 1      | 5                 | 14   | 20.2  | 21.2  | 20.2  | 20.7  | 19.4   |      | -0.3 |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 3

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.  | σt   | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cmq | mm   |      |
| 1    | 3   | 9       | -367  | 1305  | 960   | 172    | 268    | -65    | 1      | 1      | 3                 | 11   | 2.5   | 2.5   | 2.5   | 2.5   | 0.1    | 0.30 | -0.3 |
| 1    | 3   | 267     | 1310  | 2554  | 1133  | -54    | -12    | 9      | 2      | 7      | 5                 | 8    | 2.5   | 2.5   | 2.5   | 2.5   | 0.1    |      | -0.3 |
| 1    | 3   | 274     | -69   | -1221 | 1620  | 41     | 138    | -27    | 0      | 0      | 1                 | 1    | 2.5   | 2.5   | 2.5   | 2.5   | 0.2    |      | -0.3 |
| 1    | 3   | 275     | 1455  | 2495  | 1326  | -39    | 40     | -11    | 3      | 6      | 5                 | 8    | 2.5   | 2.5   | 2.5   | 2.5   | 0.2    |      | -0.3 |
| 1    | 3   | 365     | -619  | -134  | 5824  | 0      | 66     | 8      | 0      | 0      | 0                 | 1    | 2.5   | 2.5   | 2.5   | 2.5   | 0.7    |      | -0.3 |
| 1    | 3   | 366     | -101  | -750  | 4839  | -10    | 0      | 8      | 0      | 0      | 0                 | 0    | 2.5   | 2.5   | 2.5   | 2.5   | 0.6    |      | -0.3 |
| 1    | 3   | 367     | -113  | -1209 | 3030  | 0      | -1     | -1     | 0      | 0      | 0                 | 0    | 2.5   | 2.5   | 2.5   | 2.5   | 0.4    |      | -0.3 |
| 1    | 3   | 368     | -137  | -1212 | 3048  | 12     | -7     | -12    | 0      | 0      | 0                 | 0    | 2.5   | 2.5   | 2.5   | 2.5   | 0.4    |      | -0.3 |
| 1    | 3   | 369     | -103  | -811  | 4861  | -10    | 0      | -9     | 0      | 0      | 0                 | 0    | 2.5   | 2.5   | 2.5   | 2.5   | 0.6    |      | -0.3 |
| 1    | 3   | 370     | -573  | -129  | 5995  | -5     | 63     | -10    | 0      | 0      | 0                 | 1    | 2.5   | 2.5   | 2.5   | 2.5   | 0.8    |      | -0.3 |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 4

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.              | σt   | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------------------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cm <sup>2</sup> | mm   |      |
| 1    | 4   | 5       | -1036 | -26   | 2737  | -817   | -1622  | 191    | 2      | 4      | 8                 | 17   | 6.7   | 6.9   | 6.2   | 5.9   | 4.8                | 0.60 | -0.6 |
| 1    | 4   | 167     | -1753 | -7505 | 21284 | 1061   | 4604   | -175   | 3      | 7      | 14                | 21   | 20.8  | 24.5  | 20.1  | 23.5  | 18.8               |      | -0.6 |
| 1    | 4   | 183     | -874  | -5541 | 19748 | -529   | -2567  | -17    | 2      | 5      | 11                | 16   | 19.6  | 21.6  | 19.6  | 20.2  | 18.8               |      | -0.4 |
| 1    | 4   | 363     | 298   | 2038  | 23478 | 391    | 1655   | 75     | 1      | 3      | 11                | 15   | 19.6  | 20.6  | 19.6  | 21.6  | 18.8               |      | -0.5 |
| 1    | 4   | 364     | -72   | 4593  | 19421 | 154    | 663    | 27     | 0      | 1      | 4                 | 14   | 19.6  | 20.1  | 19.6  | 20.6  | 18.8               |      | -0.3 |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 5

| Gr.Q | Gen | Nodo 3d | Nx    | Ny     | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.              | σt   | eta  |
|------|-----|---------|-------|--------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------------------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m  | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cm <sup>2</sup> | mm   |      |
| 1    | 5   | 20      | 1752  | -3625  | 17924 | 1795   | 6184   | -698   | 3      | 7      | 16                | 17   | 5.0   | 12.2  | 5.0   | 10.3  | 2.3                | 0.51 | -0.5 |
| 1    | 5   | 21      | -2334 | -8860  | 34297 | 503    | 2441   | -18    | 1      | 5      | 6                 | 12   | 5.2   | 6.2   | 5.2   | 7.3   | 4.4                | 0.47 | -0.5 |
| 1    | 5   | 121     | -2328 | -8835  | 26831 | 429    | 2049   | -24    | 1      | 4      | 5                 | 14   | 4.3   | 4.8   | 4.3   | 5.3   | 3.4                | 0.46 | -0.5 |
| 1    | 5   | 141     | -2938 | -11806 | 29946 | 449    | 2203   | 11     | 1      | 5      | 4                 | 12   | 4.7   | 5.2   | 4.7   | 5.7   | 3.8                | 0.48 | -0.5 |
| 1    | 5   | 161     | 1174  | -4425  | 16695 | 1710   | 5948   | 651    | 3      | 7      | 15                | 17   | 4.8   | 11.5  | 4.8   | 9.6   | 2.1                | 0.53 | -0.5 |
| 1    | 5   | 172     | 1752  | -3625  | 10151 | -2759  | -11002 | 698    | 5      | 10     | 23                | 21   | 4.8   | 14.4  | 5.3   | 14.5  | 1.3                |      | -0.6 |
| 1    | 5   | 173     | -2334 | -8860  | 6893  | -1552  | -7687  | 18     | 3      | 9      | 12                | 19   | 3.2   | 9.3   | 3.3   | 7.8   | 0.9                |      | -0.5 |
| 1    | 5   | 174     | -2871 | -11213 | 7124  | -1422  | -6903  | -52    | 4      | 9      | 18                | 18   | 2.5   | 8.4   | 2.9   | 7.9   | 0.9                |      | -0.5 |
| 1    | 5   | 175     | -2384 | -12508 | 4853  | 924    | -6024  | 3      | 2      | 8      | 11                | 17   | 2.5   | 7.1   | 2.5   | 6.3   | 0.6                |      | -0.5 |
| 1    | 5   | 177     | -3102 | -12382 | 5455  | -1289  | -6412  | -8     | 3      | 9      | 15                | 19   | 2.5   | 7.0   | 2.5   | 7.3   | 0.7                |      | -0.5 |
| 1    | 5   | 178     | -2328 | -8835  | 5498  | -1395  | -6906  | 17     | 4      | 9      | 18                | 18   | 2.5   | 8.4   | 2.5   | 7.1   | 0.7                |      | -0.5 |
| 1    | 5   | 179     | -2938 | -11806 | 5577  | -1498  | -7415  | -18    | 7      | 9      | 63                | 18   | 2.5   | 8.8   | 2.7   | 9.0   | 0.7                |      | -0.5 |
| 1    | 5   | 180     | 1174  | -4425  | 12720 | -2715  | -10940 | -659   | 4      | 11     | 15                | 24   | 5.8   | 14.5  | 5.8   | 14.5  | 1.6                |      | -0.6 |
| 1    | 5   | 333     | 730   | 602    | 22386 | 648    | 1974   | -317   | 3      | 3      | 29                | 14   | 3.7   | 5.7   | 3.7   | 6.2   | 2.9                |      | -0.5 |
| 1    | 5   | 334     | 1169  | 438    | 19572 | 649    | 1903   | 335    | 1      | 3      | 9                 | 15   | 3.8   | 5.5   | 4.3   | 5.4   | 2.5                |      | -0.5 |
| 1    | 5   | 351     | 1184  | 1146   | 21398 | 617    | 1894   | -298   | 1      | 3      | 9                 | 16   | 4.1   | 6.1   | 4.6   | 5.6   | 2.7                |      | -0.5 |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 6

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.              | σt   | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------------------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cm <sup>2</sup> | mm   |      |
| 1    | 6   | 18      | 5039  | 4853  | 33718 | 147    | -487   | 13     | 9      | 1      | 17                | 17   | 5.2   | 5.6   | 5.2   | 6.6   | 4.3                | 0.65 | -0.7 |
| 1    | 6   | 20      | 5166  | -2058 | 39431 | 144    | -1376  | 96     | 9      | 3      | 17                | 13   | 5.9   | 7.1   | 5.9   | 7.0   | 5.0                | 0.51 | -0.5 |
| 1    | 6   | 162     | -504  | -7148 | 18723 | 973    | 4679   | -183   | 2      | 7      | 15                | 17   | 4.2   | 7.8   | 3.7   | 7.7   | 2.4                |      | -0.7 |





Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
www.bfpgroup.net - info@bfpgroup.net  
tel. (+39) 0805046361 - fax (+39) 0805619384  
AZIENDA CON SISTEMA GESTIONE  
UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

225 di/of 501

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 6

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.  | σt | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------|----|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cmq | mm |      |
| 1    | 6   | 172     | 297   | -4723 | 25674 | 910    | 4394   | 179    | 2      | 6      | 15                | 16   | 5.1   | 8.4   | 4.6   | 8.8   | 3.3    |    | -0.6 |

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 7

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.  | σt   | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cmq | mm   |      |
| 1    | 7   | 145     | 5168  | -260  | 33803 | -167   | -1224  | 111    | 9      | 3      | 18                | 17   | 5.2   | 5.8   | 5.2   | 6.2   | 4.3    | 0.62 | -0.6 |
| 1    | 7   | 161     | 5216  | -855  | 38227 | -164   | -1197  | -105   | 9      | 2      | 18                | 10   | 5.8   | 7.2   | 5.8   | 7.2   | 4.9    | 0.53 | -0.5 |
| 1    | 7   | 171     | 1314  | -260  | 21694 | 951    | 3810   | -236   | 2      | 5      | 12                | 18   | 4.4   | 8.4   | 4.8   | 7.6   | 2.8    |      | -0.7 |
| 1    | 7   | 180     | 1181  | -855  | 26224 | 913    | 3688   | 220    | 2      | 5      | 12                | 18   | 4.9   | 8.5   | 5.2   | 7.8   | 3.4    |      | -0.6 |

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 1

| Gr.Q | Gen | Nodo 3d | Nx    | Ny     | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.  | σt   | eta  |
|------|-----|---------|-------|--------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m  | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cmq | mm   |      |
| 1    | 1   | 2       | 8379  | -13566 | 194   | -326   | -1052  | -3     | 8      | 2      | 19                | 1    | 2.5   | 2.5   | 2.5   | 2.5   | 0.0    | 0.63 | -0.6 |
| 1    | 1   | 18      | -736  | -4131  | 2918  | 1339   | 5292   | -351   | 3      | 6      | 12                | 16   | 4.0   | 9.3   | 3.4   | 9.6   | 0.4    | 0.60 | -0.6 |
| 1    | 1   | 144     | -23   | -1068  | 7889  | -431   | -1706  | 113    | 1      | 3      | 11                | 15   | 2.5   | 4.6   | 2.5   | 4.6   | 1.0    | 0.54 | -0.5 |
| 1    | 1   | 145     | -904  | -4429  | 3102  | 1287   | 5068   | 341    | 3      | 7      | 11                | 18   | 3.2   | 8.8   | 3.3   | 9.4   | 0.4    | 0.57 | -0.6 |
| 1    | 1   | 162     | -736  | -4131  | 10416 | 2072   | 8223   | -534   | 4      | 11     | 18                | 37   | 4.5   | 14.5  | 4.7   | 14.6  | 1.3    |      | -0.6 |
| 1    | 1   | 163     | -2821 | -11091 | 568   | -964   | -4755  | 17     | 2      | 11     | 11                | 50   | 2.5   | 7.2   | 2.6   | 8.5   | 0.4    |      | -0.6 |
| 1    | 1   | 164     | -1863 | -7593  | 15707 | -738   | -3597  | -23    | 2      | 6      | 14                | 18   | 3.3   | 7.5   | 3.8   | 7.9   | 2.0    |      | -0.6 |
| 1    | 1   | 166     | -4117 | -16435 | 1318  | 813    | -3330  | 1      | 2      | 10     | 10                | 42   | 2.5   | 5.1   | 2.5   | 6.9   | 0.4    |      | -0.7 |
| 1    | 1   | 167     | -1875 | -7478  | 17120 | 573    | -2812  | 2      | 2      | 5      | 9                 | 17   | 3.0   | 6.7   | 3.0   | 7.3   | 2.2    |      | -0.6 |
| 1    | 1   | 168     | -2818 | -11130 | 2684  | 907    | -3581  | -19    | 3      | 6      | 15                | 18   | 2.5   | 5.6   | 2.5   | 7.9   | 0.4    |      | -0.5 |
| 1    | 1   | 169     | -2747 | -10884 | 1292  | 1004   | -4027  | -16    | 3      | 7      | 18                | 24   | 2.5   | 6.3   | 2.5   | 8.1   | 0.4    |      | -0.5 |
| 1    | 1   | 170     | -2689 | -10663 | 948   | 1087   | -4502  | 11     | 2      | 7      | 10                | 19   | 2.5   | 7.0   | 2.5   | 8.7   | 0.4    |      | -0.5 |
| 1    | 1   | 171     | -904  | -4429  | 10097 | -1883  | -8021  | -349   | 4      | 12     | 18                | 44   | 4.4   | 14.2  | 4.6   | 14.4  | 1.3    |      | -0.6 |
| 1    | 1   | 251     | 10266 | 3180   | 1010  | -161   | 351    | -102   | 13     | 1      | 18                | 18   | 2.5   | 2.5   | 2.5   | 2.5   | 0.1    |      | -0.6 |
| 1    | 1   | 283     | 37    | -1151  | 8411  | 449    | 1344   | 225    | 1      | 3      | 12                | 14   | 2.5   | 4.5   | 2.5   | 4.5   | 1.1    | 0.57 | -0.6 |
| 1    | 1   | 301     | 37    | -1151  | 13685 | -585   | -2002  | -231   | 2      | 4      | 15                | 18   | 3.6   | 4.9   | 2.7   | 4.8   | 1.7    |      | -0.6 |
| 1    | 1   | 306     | 44    | -843   | 13137 | -293   | -952   | 129    | 1      | 3      | 8                 | 19   | 2.5   | 3.2   | 2.5   | 3.1   | 1.7    |      | -0.6 |
| 1    | 1   | 307     | -40   | 494    | 14154 | -180   | -514   | -95    | 1      | 2      | 5                 | 15   | 2.6   | 3.1   | 2.6   | 3.6   | 1.8    |      | -0.6 |
| 1    | 1   | 315     | -22   | 514    | 15659 | 146    | 421    | -77    | 0      | 1      | 4                 | 12   | 2.8   | 2.8   | 2.8   | 2.8   | 2.0    |      | -0.6 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy
www.bfpgroup.net - info@bfpgroup.net
tel. (+39) 0805046361 - fax (+39) 0805619384
AZIENDA CON SISTEMA GESTIONE
UNI EN ISO 9001:2015
UNI EN ISO 14001:2015
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

226 di/of 501

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 1

Table with 19 columns: Gr.Q, Gen, Nodo 3d, Nx, Ny, Txy, Mx, My, Mxy, ec x, ec y, ef x, ef y, Ax s., Ay s., Ax i., Ay i., Atag., ct, eta. Contains 3 rows of data.

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 2

Table with 19 columns: Gr.Q, Gen, Nodo 3d, Nx, Ny, Txy, Mx, My, Mxy, ec x, ec y, ef x, ef y, Ax s., Ay s., Ax i., Ay i., Atag., ct, eta. Contains 5 rows of data.

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 3

Table with 19 columns: Gr.Q, Gen, Nodo 3d, Nx, Ny, Txy, Mx, My, Mxy, ec x, ec y, ef x, ef y, Ax s., Ay s., Ax i., Ay i., Atag., ct, eta. Contains 10 rows of data.

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 4

Table with 19 columns: Gr.Q, Gen, Nodo 3d, Nx, Ny, Txy, Mx, My, Mxy, ec x, ec y, ef x, ef y, Ax s., Ay s., Ax i., Ay i., Atag., ct, eta. Contains 3 rows of data.

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 4

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.              | σt | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------------------|----|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cm <sup>2</sup> | mm |      |
| 1    | 4   | 363     | 298   | 2038  | 23478 | 295    | 1266   | 52     | 1      | 3      | 8                 | 18   | 19.6  | 20.6  | 19.6  | 21.6  | 18.8               |    | -0.5 |
| 1    | 4   | 364     | -72   | 4593  | 19421 | 154    | 663    | 27     | 0      | 1      | 4                 | 14   | 19.6  | 20.1  | 19.6  | 20.6  | 18.8               |    | -0.3 |

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 5

| Gr.Q | Gen | Nodo 3d | Nx    | Ny     | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.              | σt   | eta  |
|------|-----|---------|-------|--------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------------------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m  | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cm <sup>2</sup> | mm   |      |
| 1    | 5   | 20      | 1119  | -3871  | 12567 | 1317   | 4448   | -534   | 3      | 6      | 13                | 16   | 5.0   | 12.2  | 5.0   | 10.3  | 2.3                | 0.46 | -0.5 |
| 1    | 5   | 21      | -2426 | -9366  | 23864 | 410    | 1993   | -15    | 1      | 4      | 4                 | 13   | 5.2   | 6.2   | 5.2   | 7.3   | 4.4                | 0.44 | -0.4 |
| 1    | 5   | 121     | -2435 | -9377  | 18345 | 351    | 1682   | -18    | 1      | 4      | 3                 | 9    | 4.3   | 4.8   | 4.3   | 5.3   | 3.4                | 0.44 | -0.4 |
| 1    | 5   | 141     | -2845 | -11396 | 20544 | 367    | 1806   | 8      | 1      | 5      | 2                 | 16   | 4.7   | 5.2   | 4.7   | 5.7   | 3.8                | 0.45 | -0.5 |
| 1    | 5   | 161     | 639   | -4556  | 11400 | 1250   | 4264   | 497    | 2      | 6      | 12                | 16   | 4.8   | 11.5  | 4.8   | 9.6   | 2.1                | 0.48 | -0.5 |
| 1    | 5   | 172     | 1119  | -3871  | 8092  | -2043  | -8073  | 535    | 3      | 10     | 14                | 31   | 4.8   | 14.4  | 5.3   | 14.5  | 1.3                |      | -0.5 |
| 1    | 5   | 173     | -2426 | -9366  | 5779  | -1152  | -5698  | 15     | 3      | 8      | 11                | 22   | 3.2   | 9.3   | 3.3   | 7.8   | 0.9                |      | -0.5 |
| 1    | 5   | 174     | -2782 | -10955 | 5746  | -1037  | -5056  | -33    | 3      | 7      | 23                | 17   | 2.5   | 8.4   | 2.9   | 7.9   | 0.9                |      | -0.5 |
| 1    | 5   | 175     | -2990 | -12054 | 3649  | -871   | -4346  | 2      | 3      | 7      | 14                | 16   | 2.5   | 7.1   | 2.5   | 6.3   | 0.6                |      | -0.5 |
| 1    | 5   | 177     | -2939 | -11745 | 3835  | -920   | -4579  | -5     | 3      | 7      | 15                | 19   | 2.5   | 7.0   | 2.5   | 7.3   | 0.7                |      | -0.5 |
| 1    | 5   | 178     | -2435 | -9377  | 3890  | -1015  | -5028  | 12     | 5      | 7      | 54                | 18   | 2.5   | 8.4   | 2.5   | 7.1   | 0.7                |      | -0.5 |
| 1    | 5   | 179     | -2845 | -11396 | 4346  | -1109  | -5484  | -15    | 2      | 8      | 10                | 17   | 2.5   | 8.8   | 2.7   | 9.0   | 0.7                |      | -0.5 |
| 1    | 5   | 180     | 639   | -4556  | 10329 | -2006  | -8015  | -504   | 3      | 12     | 14                | 46   | 5.8   | 14.5  | 5.8   | 14.5  | 1.6                |      | -0.5 |
| 1    | 5   | 333     | 377   | 354    | 17877 | 478    | 1464   | -232   | 1      | 3      | 13                | 14   | 3.7   | 5.7   | 3.7   | 6.2   | 2.9                |      | -0.4 |
| 1    | 5   | 334     | 878   | 341    | 14284 | 484    | 1417   | 250    | 1      | 3      | 15                | 14   | 3.8   | 5.5   | 4.3   | 5.4   | 2.5                |      | -0.4 |
| 1    | 5   | 351     | 893   | 873    | 16272 | 459    | 1406   | -222   | 1      | 3      | 14                | 14   | 4.1   | 6.1   | 4.6   | 5.6   | 2.7                |      | -0.4 |

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 6

| Gr.Q | Gen | Nodo 3d | Nx    | Ny    | Txy   | Mx     | My     | Mxy    | εc x   | εc y   | εf x              | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag.              | σt   | eta  |
|------|-----|---------|-------|-------|-------|--------|--------|--------|--------|--------|-------------------|------|-------|-------|-------|-------|--------------------|------|------|
| N.ro | N.r | N.ro    | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |      |       |       |       |       | dN/cm <sup>2</sup> | mm   |      |
| 1    | 6   | 18      | 3236  | -1343 | 26056 | 108    | 762    | -87    | 6      | 2      | 12                | 16   | 5.2   | 5.6   | 5.2   | 6.6   | 4.3                | 0.60 | -0.6 |
| 1    | 6   | 20      | 3417  | 3219  | 31665 | 106    | -298   | 2      | 6      | 0      | 13                | 17   | 5.9   | 7.1   | 5.9   | 7.0   | 5.0                | 0.46 | -0.5 |
| 1    | 6   | 162     | 595   | -7242 | 13849 | -621   | 3326   | -116   | 2      | 5      | 18                | 15   | 4.2   | 7.8   | 3.7   | 7.7   | 2.4                |      | -0.6 |
| 1    | 6   | 172     | 549   | -5334 | 20831 | -616   | 3097   | 114    | 2      | 5      | 17                | 16   | 5.1   | 8.4   | 4.6   | 8.8   | 3.3                |      | -0.5 |

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 7

| Gr.Q | Gen | Nodo 3d | Nx | Ny | Txy | Mx | My | Mxy | εc x | εc y | εf x | εf y | Ax s. | Ay s. | Ax i. | Ay i. | Atag. | σt | eta |
|------|-----|---------|----|----|-----|----|----|-----|------|------|------|------|-------|-------|-------|-------|-------|----|-----|
|------|-----|---------|----|----|-----|----|----|-----|------|------|------|------|-------|-------|-------|-------|-------|----|-----|

| N.ro | N.r | N.ro | daN/m | daN/m | daN/m | daNm/m | daNm/m | daNm/m | daNm/m | *10000 | *10000 | ----- cmq/m ----- |     |     |     |     | dN/cm | mm   |      |
|------|-----|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------------------|-----|-----|-----|-----|-------|------|------|
| 1    | 7   | 145  | 3334  | 2463  | 26311 | -120   | 317    | 89     | 6      | 1      | 13     | 15                | 5.2 | 5.8 | 5.2 | 6.2 | 4.3   | 0.57 | -0.6 |
| 1    | 7   | 161  | 3405  | 3158  | 30494 | -119   | -253   | -85    | 6      | 1      | 13     | 16                | 5.8 | 7.2 | 5.8 | 7.2 | 4.9   | 0.48 | -0.5 |
| 1    | 7   | 171  | 533   | -1712 | 16154 | 633    | 2482   | -171   | 2      | 4      | 18     | 18                | 4.4 | 8.4 | 4.8 | 7.6 | 2.8   |      | -0.6 |
| 1    | 7   | 180  | 3405  | -2036 | 20843 | 275    | 2416   | 86     | 1      | 4      | 17     | 17                | 4.9 | 8.5 | 5.2 | 7.8 | 3.4   |      | -0.5 |

**S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 2**

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |      |       |       | TENSIONI |               | DIREZIONE X   |       |      | DIREZIONE Y |               |       |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|------|-------|-------|----------|---------------|---------------|-------|------|-------------|---------------|-------|------|-------|-------|
| GrQ | Gen | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY  | NY   | cos   | sin   | Combina  | $\sigma$ lim. | $\sigma$ cal. | Co    | Mf   | N           | $\sigma$ cal. | Co    | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm   | mb    | dkN*m | kN/10    | Carico        | dN/cm         | dN/cm | mb   | dkN*m       | kN/10         | dN/cm | mb   | dkN*m | kN/10 |
| 1   | 2   | 11   | Rara         |     |      |     |    |       |       |      |      |       |       | RaraCls  | 120.0         | 0.7           | 14    | -0.1 | -1.3        | 3.2           | 14    | -0.3 | -6.0  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 3  | -0.1  | -0.7  | -0.3 | -4.6 | 0.000 | 0.000 | RaraFer  | 3600          | 7             | 14    | -0.1 | -1.3        | 31            | 14    | -0.3 | -6.0  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -0.7  | -0.3 | -4.6 | 0.000 | 0.000 | PermCls  | 90.0          | 0.5           | 1     | -0.1 | -0.7        | 2.7           | 1     | -0.3 | -4.6  |       |
| 1   | 2   | 164  | Rara         |     |      |     |    |       |       |      |      |       |       | RaraCls  | 120.0         | 1.4           | 14    | 0.1  | -3.1        | 4.7           | 5     | 0.3  | -7.9  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 3  | 0.0   | -1.8  | 0.2  | -7.6 | 0.000 | 0.000 | RaraFer  | 3600          | 14            | 14    | 0.1  | -3.1        | 46            | 14    | 0.2  | -10.1 |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -1.8  | 0.1  | -7.6 | 0.000 | 0.000 | PermCls  | 90.0          | 0.9           | 1     | 0.0  | -1.8        | 3.5           | 1     | 0.1  | -7.6  |       |
| 1   | 2   | 181  | Rara         |     |      |     |    |       |       |      |      |       |       | RaraCls  | 120.0         | 3.6           | 3     | 0.4  | -0.6        | 17.6          | 5     | 1.8  | -4.3  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | 0.4   | -0.6  | 1.7  | -4.2 | 0.000 | 0.000 | RaraFer  | 3600          | 68            | 12    | 0.4  | -0.6        | 309           | 14    | 1.8  | -4.1  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.3   | -0.6  | 1.6  | -4.0 | 0.000 | 0.000 | PermCls  | 90.0          | 3.3           | 1     | 0.3  | -0.6        | 15.9          | 1     | 1.6  | -4.0  |       |
| 1   | 2   | 361  | Rara         |     |      |     |    |       |       |      |      |       |       | RaraCls  | 120.0         | 0.9           | 14    | -0.1 | 0.0         | 3.5           | 5     | -0.5 | 2.1   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | -0.1  | 0.3   | -0.4 | 2.1  | 0.000 | 0.000 | RaraFer  | 3600          | 32            | 8     | -0.1 | 0.6         | 158           | 14    | -0.5 | 2.7   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | 0.3   | -0.4 | 2.0  | 0.000 | 0.000 | PermCls  | 90.0          | 0.7           | 1     | -0.1 | 0.3         | 2.9           | 1     | -0.4 | 2.0   |       |
| 1   | 2   | 362  | Rara         |     |      |     |    |       |       |      |      |       |       | RaraCls  | 120.0         | 1.1           | 8     | -0.1 | -0.2        | 3.2           | 14    | -0.5 | 2.5   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | -0.1  | -0.1  | -0.5 | 2.8  | 0.000 | 0.000 | RaraFer  | 3600          | 25            | 14    | -0.1 | 0.1         | 162           | 8     | -0.5 | 3.1   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -0.1  | -0.5 | 2.7  | 0.000 | 0.000 | PermCls  | 90.0          | 0.9           | 1     | -0.1 | -0.1        | 2.6           | 1     | -0.5 | 2.7   |       |

**S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 3**

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |     |     |       |       | TENSIONI |               | DIREZIONE X   |       |     | DIREZIONE Y |               |       |     |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|-----|-----|-------|-------|----------|---------------|---------------|-------|-----|-------------|---------------|-------|-----|-------|-------|
| GrQ | Gen | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY | NY  | cos   | sin   | Combina  | $\sigma$ lim. | $\sigma$ cal. | Co    | Mf  | N           | $\sigma$ cal. | Co    | Mf  | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm  | mm  | mb    | dkN*m | kN/10    | Carico        | dN/cm         | dN/cm | mb  | dkN*m       | kN/10         | dN/cm | mb  | dkN*m | kN/10 |
| 1   | 3   | 9    | Rara         |     |      |     |    |       |       |     |     |       |       | RaraCls  | 120.0         | 2.8           | 6     | 0.1 | -1.0        | 5.2           | 6     | 0.2 | 0.8   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.1   | -0.9  | 0.2 | 0.8 | 0.000 | 0.000 | RaraFer  | 3600          | 62            | 8     | 0.1 | -0.9        | 549           | 6     | 0.2 | 0.8   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -0.9  | 0.2 | 0.8 | 0.000 | 0.000 | PermCls  | 90.0          | 2.6           | 1     | 0.1 | -0.9        | 4.7           | 1     | 0.2 | 0.8   |       |
| 1   | 3   | 267  | Rara         |     |      |     |    |       |       |     |     |       |       | RaraCls  | 120.0         | 0.0           | 0     | 0.0 | 0.0         | 0.0           | 0     | 0.0 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | 0.0   | 0.9   | 0.0 | 1.1 | 0.000 | 0.000 | RaraFer  | 3600          | 272           | 5     | 0.0 | 1.0         | 337           | 14    | 0.1 | 1.2   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | 0.9   | 0.0 | 1.1 | 0.000 | 0.000 | PermCls  | 90.0          | 0.0           | 0     | 0.0 | 0.0         | 0.0           | 0     | 0.0 | 0.0   |       |

S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 3

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |     |      |       |       | TENSIONI |               | DIREZIONE X        |                    |     |       | DIREZIONE Y   |                    |     |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|-----|------|-------|-------|----------|---------------|--------------------|--------------------|-----|-------|---------------|--------------------|-----|-------|-------|
| GrQ | Gen | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY | NY   | cos   | sin   | Combina  | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf  | N     | $\sigma$ cal. | Co                 | Mf  | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm  | mm   | mb    | dkN*m | kN/10    | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb  | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb  | dkN*m | kN/10 |
| 1   | 3   | 274  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.7                | 8                  | 0.0 | -0.1  | 1.4           | 8                  | 0.1 | -1.0  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.0   | -0.1  | 0.1 | -1.0 | 0.000 | 0.000 | RaraFer  | 3600          | 26                 | 11                 | 0.0 | -0.1  | 13            | 8                  | 0.1 | -1.0  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -0.1  | 0.1 | -1.0 | 0.000 | 0.000 | PermCls  | 90.0          | 0.6                | 1                  | 0.0 | -0.1  | 1.2           | 1                  | 0.1 | -1.0  |       |
| 1   | 3   | 275  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.0                | 0                  | 0.0 | 0.0   | 0.0           | 0                  | 0.0 | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.0   | 1.0   | 0.1 | 1.1  | 0.000 | 0.000 | RaraFer  | 3600          | 273                | 11                 | 0.0 | 1.1   | 388           | 14                 | 0.1 | 1.3   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | 1.0   | 0.1 | 1.1  | 0.000 | 0.000 | PermCls  | 90.0          | 0.0                | 0                  | 0.0 | 0.0   | 0.0           | 0                  | 0.0 | 0.0   |       |
| 1   | 3   | 365  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.4                | 6                  | 0.0 | -0.5  | 1.5           | 6                  | 0.1 | -0.3  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.0   | -0.5  | 0.1 | -0.2 | 0.000 | 0.000 | RaraFer  | 3600          | 3                  | 6                  | 0.0 | -0.5  | 59            | 6                  | 0.1 | -0.3  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -0.5  | 0.1 | -0.2 | 0.000 | 0.000 | PermCls  | 90.0          | 0.3                | 1                  | 0.0 | -0.5  | 1.4           | 1                  | 0.1 | -0.2  |       |
| 1   | 3   | 366  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.1                | 6                  | 0.0 | -0.1  | 0.3           | 6                  | 0.0 | -0.5  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.0   | -0.1  | 0.0 | -0.5 | 0.000 | 0.000 | RaraFer  | 3600          | 1                  | 6                  | 0.0 | -0.1  | 3             | 6                  | 0.0 | -0.5  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -0.1  | 0.0 | -0.5 | 0.000 | 0.000 | PermCls  | 90.0          | 0.1                | 1                  | 0.0 | -0.1  | 0.3           | 1                  | 0.0 | -0.5  |       |
| 1   | 3   | 367  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.1                | 6                  | 0.0 | -0.1  | 0.4           | 6                  | 0.0 | -0.9  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.0   | -0.1  | 0.0 | -0.8 | 0.000 | 0.000 | RaraFer  | 3600          | 1                  | 6                  | 0.0 | -0.1  | 4             | 6                  | 0.0 | -0.9  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -0.1  | 0.0 | -0.8 | 0.000 | 0.000 | PermCls  | 90.0          | 0.1                | 1                  | 0.0 | -0.1  | 0.4           | 1                  | 0.0 | -0.8  |       |
| 1   | 3   | 368  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.1                | 6                  | 0.0 | -0.1  | 0.4           | 6                  | 0.0 | -0.9  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.0   | -0.1  | 0.0 | -0.8 | 0.000 | 0.000 | RaraFer  | 3600          | 1                  | 6                  | 0.0 | -0.1  | 4             | 6                  | 0.0 | -0.9  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -0.1  | 0.0 | -0.8 | 0.000 | 0.000 | PermCls  | 90.0          | 0.1                | 1                  | 0.0 | -0.1  | 0.4           | 1                  | 0.0 | -0.8  |       |
| 1   | 3   | 369  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.1                | 6                  | 0.0 | -0.1  | 0.3           | 6                  | 0.0 | -0.6  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.0   | -0.1  | 0.0 | -0.5 | 0.000 | 0.000 | RaraFer  | 3600          | 1                  | 6                  | 0.0 | -0.1  | 3             | 6                  | 0.0 | -0.6  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -0.1  | 0.0 | -0.5 | 0.000 | 0.000 | PermCls  | 90.0          | 0.1                | 1                  | 0.0 | -0.1  | 0.3           | 1                  | 0.0 | -0.5  |       |
| 1   | 3   | 370  | Rara         |     |      |     |    |       |       |     |      |       |       | RaraCls  | 120.0         | 0.4                | 6                  | 0.0 | -0.5  | 1.4           | 6                  | 0.1 | -0.2  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | 0.0   | -0.4  | 0.0 | -0.2 | 0.000 | 0.000 | RaraFer  | 3600          | 4                  | 6                  | 0.0 | -0.5  | 53            | 6                  | 0.1 | -0.2  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | -0.4  | 0.0 | -0.2 | 0.000 | 0.000 | PermCls  | 90.0          | 0.4                | 1                  | 0.0 | -0.4  | 1.2           | 1                  | 0.0 | -0.2  |       |

S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 4

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |     |       |       | TENSIONI |               | DIREZIONE X        |                    |      |       | DIREZIONE Y   |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|-----|-------|-------|----------|---------------|--------------------|--------------------|------|-------|---------------|--------------------|------|-------|-------|
| GrQ | Gen | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY  | NY  | cos   | sin   | Combina  | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf   | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm  | mb    | dkN*m | kN/10    | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
| 1   | 4   | 5    | Rara         |     |      |     |    |       |       |      |     |       |       | RaraCls  | 120.0         | 5.3                | 6                  | -0.5 | -1.1  | 8.8           | 3                  | -1.0 | -0.1  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 2  | -0.5  | -1.0  | -0.9 | 0.0 | 0.000 | 0.000 | RaraFer  | 3600          | 95                 | 6                  | -0.5 | -1.1  | 197           | 3                  | -1.0 | -0.1  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.5  | -1.0  | -0.9 | 0.0 | 0.000 | 0.000 | PermCls  | 90.0          | 4.9                | 1                  | -0.5 | -1.0  | 8.2           | 1                  | -0.9 | 0.0   |       |



**Engineering & Construction**



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 – fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

**GRE.EEC.R.25.IT.W.15001.00.103.00**

PAGE

230 di/of 501

**S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 4**

| GrQ | Gen | Nodo | FESSURAZIONI |     |      |     |    |       |       |      |      |       |       | TENSIONI |               | DIREZIONE X        |                    |       |       | DIREZIONE Y   |                    |      |       |       |      |      |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|------|-------|-------|----------|---------------|--------------------|--------------------|-------|-------|---------------|--------------------|------|-------|-------|------|------|
|     |     |      | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY  | NY   | cos   | sin   | Combina  | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf    | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |      |      |
|     |     |      | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm   | mb    | dkN*m | kN/10    | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb    | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |      |      |
| 1   | 4   | 167  | Rara         |     |      |     |    |       |       |      |      |       |       |          |               |                    | RaraCls            | 120.0 | 1.5   | 14            | -0.1               | -3.0 | 5.6   | 11    | -0.4 | -7.9 |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 5  | -0.1  | -1.8  | -0.3 | -7.5 | 0.000 | 0.000 | RaraFer  | 3600          | 15                 | 14                 | -0.1  | -3.0  | 54            | 11                 | -0.4 | -7.9  |       |      |      |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -1.8  | -0.3 | -7.5 | 0.000 | 0.000 | PermCls  | 90.0          | 1.1                | 1                  | -0.1  | -1.8  | 4.4           | 1                  | -0.3 | -7.5  |       |      |      |
| 1   | 4   | 183  | Rara         |     |      |     |    |       |       |      |      |       |       |          |               |                    | RaraCls            | 120.0 | 3.6   | 9             | -0.4               | -0.6 | 17.6  | 11    | -1.8 | -4.3 |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | -0.4  | -0.6  | -1.7 | -4.1 | 0.000 | 0.000 | RaraFer  | 3600          | 68                 | 12                 | -0.4  | -0.6  | 309           | 14                 | -1.8 | -4.0  |       |      |      |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.3  | -0.6  | -1.6 | -4.0 | 0.000 | 0.000 | PermCls  | 90.0          | 3.3                | 1                  | -0.3  | -0.6  | 15.9          | 1                  | -1.6 | -4.0  |       |      |      |
| 1   | 4   | 363  | Rara         |     |      |     |    |       |       |      |      |       |       |          |               |                    | RaraCls            | 120.0 | 0.9   | 14            | 0.1                | 0.0  | 3.7   | 11    | 0.5  | 2.2  |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | 0.1   | 0.3   | 0.5  | 2.1  | 0.000 | 0.000 | RaraFer  | 3600          | 34                 | 8                  | 0.1   | 0.6   | 163           | 14                 | 0.5  | 2.7   |       |      |      |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | 0.3   | 0.4  | 2.0  | 0.000 | 0.000 | PermCls  | 90.0          | 0.7                | 1                  | 0.1   | 0.3   | 3.1           | 1                  | 0.4  | 2.0   |       |      |      |
| 1   | 4   | 364  | Rara         |     |      |     |    |       |       |      |      |       |       |          |               |                    | RaraCls            | 120.0 | 1.1   | 8             | 0.1                | -0.4 | 2.8   | 14    | 0.5  | 2.7  |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 1  | 0.1   | -0.2  | 0.4  | 3.0  | 0.000 | 0.000 | RaraFer  | 3600          | 21                 | 14                 | 0.1   | -0.1  | 162           | 8                  | 0.5  | 3.4   |       |      |      |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -0.3  | 0.4  | 3.0  | 0.000 | 0.000 | PermCls  | 90.0          | 0.9                | 1                  | 0.1   | -0.3  | 2.2           | 1                  | 0.4  | 3.0   |       |      |      |

**S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 5**

| GrQ | Gen | Nodo | FESSURAZIONI |     |      |     |    |       |       |      |       |       |       | TENSIONI |               | DIREZIONE X        |                    |       |       | DIREZIONE Y   |                    |      |       |       |      |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|-------|-------|-------|----------|---------------|--------------------|--------------------|-------|-------|---------------|--------------------|------|-------|-------|------|-------|
|     |     |      | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY  | NY    | cos   | sin   | Combina  | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf    | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |      |       |
|     |     |      | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm    | mb    | dkN*m | kN/10    | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb    | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |      |       |
| 1   | 5   | 20   | Rara         |     |      |     |    |       |       |      |       |       |       |          |               |                    | RaraCls            | 120.0 | 4.5   | 14            | -0.3               | -0.8 | 16.2  | 14    | -1.3 | -4.4  |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | -0.2  | -0.8  | -0.7 | -4.6  | 0.000 | 0.000 | RaraFer  | 3600          | 125                | 14                 | -0.3  | -0.8  | 312           | 14                 | -1.3 | -4.4  |       |      |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.2  | -0.9  | -0.5 | -4.7  | 0.000 | 0.000 | PermCls  | 90.0          | 3.0                | 1                  | -0.2  | -0.9  | 6.8           | 1                  | -0.5 | -4.7  |       |      |       |
| 1   | 5   | 21   | Rara         |     |      |     |    |       |       |      |       |       |       |          |               |                    | RaraCls            | 120.0 | 3.2   | 8             | 0.2                | -2.7 | 14.5  | 8     | 1.0  | -10.5 |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.2   | -2.5  | 0.9  | -10.0 | 0.000 | 0.000 | RaraFer  | 3600          | 30                 | 8                  | 0.2   | -2.7  | 133           | 8                  | 1.0  | -10.5 |       |      |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | -2.5  | 0.8  | -9.9  | 0.000 | 0.000 | PermCls  | 90.0          | 2.5                | 1                  | 0.2   | -2.5  | 11.3          | 1                  | 0.8  | -9.9  |       |      |       |
| 1   | 5   | 121  | Rara         |     |      |     |    |       |       |      |       |       |       |          |               |                    | RaraCls            | 120.0 | 3.1   | 8             | 0.2                | -2.8 | 13.4  | 8     | 1.0  | -10.9 |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.2   | -2.6  | 0.8  | -10.3 | 0.000 | 0.000 | RaraFer  | 3600          | 28                 | 8                  | 0.2   | -2.8  | 125           | 8                  | 1.0  | -10.9 |       |      |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | -2.6  | 0.8  | -10.3 | 0.000 | 0.000 | PermCls  | 90.0          | 2.5                | 1                  | 0.2   | -2.6  | 10.8          | 1                  | 0.8  | -10.3 |       |      |       |
| 1   | 5   | 141  | Rara         |     |      |     |    |       |       |      |       |       |       |          |               |                    | RaraCls            | 120.0 | 3.0   | 8             | 0.2                | -2.7 | 13.3  | 8     | 1.0  | -10.8 |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.2   | -2.6  | 0.8  | -10.2 | 0.000 | 0.000 | RaraFer  | 3600          | 28                 | 8                  | 0.2   | -2.7  | 124           | 8                  | 1.0  | -10.8 |       |      |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.2   | -2.6  | 0.8  | -10.2 | 0.000 | 0.000 | PermCls  | 90.0          | 2.4                | 1                  | 0.2   | -2.6  | 10.7          | 1                  | 0.8  | -10.2 |       |      |       |
| 1   | 5   | 161  | Rara         |     |      |     |    |       |       |      |       |       |       |          |               |                    | RaraCls            | 120.0 | 4.2   | 14            | -0.2               | -0.9 | 15.0  | 14    | -1.2 | -4.7  |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | -0.2  | -1.0  | -0.6 | -4.9  | 0.000 | 0.000 | RaraFer  | 3600          | 106                | 14                 | -0.2  | -0.9  | 269           | 14                 | -1.2 | -4.7  |       |      |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.2  | -1.0  | -0.5 | -5.0  | 0.000 | 0.000 | PermCls  | 90.0          | 2.8                | 1                  | -0.2  | -1.0  | 6.7           | 1                  | -0.5 | -5.0  |       |      |       |

S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 5

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |       |       |       | TENSIONI |               | DIREZIONE X        |                    |      |       |               | DIREZIONE Y        |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|-------|-------|-------|----------|---------------|--------------------|--------------------|------|-------|---------------|--------------------|------|-------|-------|
| GrQ | Gen | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MfY  | NY    | cos   | sin   | Combina  | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf   | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm    | mb    | dkN*m | kN/10    | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
| 1   | 5   | 172  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 6.9                | 8                  | -0.4 | -1.0  | 19.5          | 14                 | 1.6  | -4.4  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | 0.1   | -0.8  | 0.5  | -4.6  | 0.000 | 0.000 | RaraFer  | 3600          | 214                | 8                  | -0.4 | -1.0  | 408           | 14                 | 1.6  | -4.4  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -0.9  | 0.2  | -4.7  | 0.000 | 0.000 | PermCls  | 90.0          | 1.7                | 1                  | 0.1  | -0.9  | 3.2           | 1                  | 0.2  | -4.7  |       |
| 1   | 5   | 173  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 5.2                | 8                  | -0.3 | -2.7  | 21.4          | 8                  | -1.5 | -10.5 |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | -0.1  | -2.5  | -0.7 | -10.0 | 0.000 | 0.000 | RaraFer  | 3600          | 63                 | 8                  | -0.3 | -2.7  | 267           | 8                  | -1.5 | -10.5 |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -2.5  | -0.5 | -9.9  | 0.000 | 0.000 | PermCls  | 90.0          | 1.9                | 1                  | -0.1 | -2.5  | 8.1           | 1                  | -0.5 | -9.9  |       |
| 1   | 5   | 174  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 5.1                | 8                  | -0.3 | -2.7  | 21.2          | 8                  | -1.5 | -11.0 |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | -0.2  | -2.6  | -0.8 | -10.4 | 0.000 | 0.000 | RaraFer  | 3600          | 58                 | 8                  | -0.3 | -2.7  | 250           | 8                  | -1.5 | -11.0 |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -2.6  | -0.6 | -10.4 | 0.000 | 0.000 | PermCls  | 90.0          | 2.1                | 1                  | -0.1 | -2.6  | 8.9           | 1                  | -0.6 | -10.4 |       |
| 1   | 5   | 175  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 5.0                | 8                  | -0.3 | -2.9  | 21.1          | 8                  | -1.5 | -11.7 |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | -0.2  | -2.8  | -0.8 | -11.1 | 0.000 | 0.000 | RaraFer  | 3600          | 50                 | 8                  | -0.3 | -2.9  | 232           | 8                  | -1.5 | -11.7 |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -2.7  | -0.7 | -11.0 | 0.000 | 0.000 | PermCls  | 90.0          | 2.2                | 1                  | -0.1 | -2.7  | 9.6           | 1                  | -0.7 | -11.0 |       |
| 1   | 5   | 177  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 4.9                | 8                  | -0.3 | -2.8  | 20.6          | 8                  | -1.5 | -11.0 |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | -0.1  | -2.6  | -0.7 | -10.4 | 0.000 | 0.000 | RaraFer  | 3600          | 52                 | 8                  | -0.3 | -2.8  | 236           | 8                  | -1.5 | -11.0 |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -2.6  | -0.6 | -10.3 | 0.000 | 0.000 | PermCls  | 90.0          | 2.0                | 1                  | -0.1 | -2.6  | 8.4           | 1                  | -0.6 | -10.3 |       |
| 1   | 5   | 178  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 4.9                | 8                  | -0.3 | -2.8  | 20.4          | 8                  | -1.4 | -10.9 |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | -0.1  | -2.6  | -0.7 | -10.3 | 0.000 | 0.000 | RaraFer  | 3600          | 51                 | 8                  | -0.3 | -2.8  | 233           | 8                  | -1.4 | -10.9 |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -2.6  | -0.5 | -10.3 | 0.000 | 0.000 | PermCls  | 90.0          | 1.9                | 1                  | -0.1 | -2.6  | 8.2           | 1                  | -0.5 | -10.3 |       |
| 1   | 5   | 179  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 4.9                | 8                  | -0.3 | -2.7  | 20.3          | 8                  | -1.4 | -10.8 |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | -0.1  | -2.6  | -0.7 | -10.2 | 0.000 | 0.000 | RaraFer  | 3600          | 53                 | 8                  | -0.3 | -2.7  | 234           | 8                  | -1.4 | -10.8 |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -2.6  | -0.5 | -10.2 | 0.000 | 0.000 | PermCls  | 90.0          | 1.9                | 1                  | -0.1 | -2.6  | 8.0           | 1                  | -0.5 | -10.2 |       |
| 1   | 5   | 180  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 6.7                | 8                  | -0.4 | -1.1  | 17.8          | 14                 | 1.4  | -4.7  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 6  | 0.1   | -1.0  | 0.4  | -4.9  | 0.000 | 0.000 | RaraFer  | 3600          | 192                | 8                  | -0.4 | -1.1  | 347           | 14                 | 1.4  | -4.7  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -1.0  | 0.2  | -5.0  | 0.000 | 0.000 | PermCls  | 90.0          | 1.5                | 1                  | 0.1  | -1.0  | 3.1           | 1                  | 0.2  | -5.0  |       |
| 1   | 5   | 333  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 2.4                | 8                  | 0.1  | 0.0   | 5.3           | 8                  | 0.4  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.1   | 0.0   | 0.2  | 0.0   | 0.000 | 0.000 | RaraFer  | 3600          | 113                | 8                  | 0.1  | 0.0   | 182           | 8                  | 0.4  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | 0.0   | 0.1  | 0.0   | 0.000 | 0.000 | PermCls  | 90.0          | 0.8                | 1                  | 0.0  | 0.0   | 1.7           | 1                  | 0.1  | 0.0   |       |
| 1   | 5   | 334  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 2.6                | 8                  | 0.1  | 0.0   | 5.4           | 8                  | 0.4  | 0.0   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.1   | 0.0   | 0.2  | 0.0   | 0.000 | 0.000 | RaraFer  | 3600          | 120                | 8                  | 0.1  | 0.0   | 182           | 8                  | 0.4  | 0.0   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | 0.0   | 0.1  | 0.0   | 0.000 | 0.000 | PermCls  | 90.0          | 0.9                | 1                  | 0.0  | 0.0   | 1.9           | 1                  | 0.1  | 0.0   |       |
| 1   | 5   | 351  | Rara         |     |      |     |    |       |       |      |       |       |       | RaraCls  | 120.0         | 2.5                | 8                  | 0.1  | 0.0   | 5.2           | 8                  | 0.4  | 0.1   |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 4  | 0.1   | 0.0   | 0.2  | 0.1   | 0.000 | 0.000 | RaraFer  | 3600          | 119                | 8                  | 0.1  | 0.0   | 186           | 8                  | 0.4  | 0.1   |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.0   | 0.0   | 0.1  | 0.1   | 0.000 | 0.000 | PermCls  | 90.0          | 0.9                | 1                  | 0.0  | 0.0   | 1.9           | 1                  | 0.1  | 0.1   |       |

S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 6

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |      |       | TENSIONI |         | DIREZIONE X   |                    |                    | DIREZIONE Y |       |               |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|------|-------|----------|---------|---------------|--------------------|--------------------|-------------|-------|---------------|--------------------|------|-------|-------|
| GrQ | Gen | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MFY  | NY   | cos   | sin      | Combina | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf          | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm   | mb    | dkN*m    | kN/10   | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb          | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
| 1   | 6   | 18   | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 1.6                | 14                 | -0.1        | -2.7  | 4.9           | 14                 | -0.3 | -7.8  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 3  | -0.1  | -1.8  | -0.2 | -6.1 | 0.000 | 0.000    | RaraFer | 3600          | 16                 | 14                 | -0.1        | -2.7  | 49            | 14                 | -0.3 | -7.8  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -1.8  | -0.2 | -6.1 | 0.000 | 0.000    | PermCls | 90.0          | 1.3                | 1                  | -0.1        | -1.8  | 4.2           | 1                  | -0.2 | -6.1  |       |
| 1   | 6   | 20   | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 1.3                | 8                  | -0.1        | -2.3  | 4.2           | 6                  | -0.2 | -6.5  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 3  | -0.1  | -1.5  | -0.2 | -5.2 | 0.000 | 0.000    | RaraFer | 3600          | 13                 | 8                  | -0.1        | -2.3  | 41            | 8                  | -0.2 | -6.8  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -1.5  | -0.2 | -5.2 | 0.000 | 0.000    | PermCls | 90.0          | 1.0                | 1                  | -0.1        | -1.5  | 3.5           | 1                  | -0.2 | -5.2  |       |
| 1   | 6   | 162  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 2.1                | 14                 | 0.1         | -2.7  | 8.4           | 5                  | 0.6  | -6.3  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 3  | 0.1   | -1.8  | 0.5  | -6.1 | 0.000 | 0.000    | RaraFer | 3600          | 20                 | 14                 | 0.1         | -2.7  | 77            | 5                  | 0.6  | -6.3  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -1.8  | 0.5  | -6.1 | 0.000 | 0.000    | PermCls | 90.0          | 1.7                | 1                  | 0.1         | -1.8  | 6.6           | 1                  | 0.5  | -6.1  |       |
| 1   | 6   | 172  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 1.7                | 8                  | 0.1         | -2.3  | 6.6           | 5                  | 0.5  | -5.4  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 3  | 0.1   | -1.5  | 0.4  | -5.2 | 0.000 | 0.000    | RaraFer | 3600          | 16                 | 8                  | 0.1         | -2.3  | 61            | 5                  | 0.5  | -5.4  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -1.5  | 0.3  | -5.2 | 0.000 | 0.000    | PermCls | 90.0          | 1.3                | 1                  | 0.1         | -1.5  | 4.9           | 1                  | 0.3  | -5.2  |       |

S.L.E. - VERIFICA FESSURAZIONE VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 7

|     |     |      | FESSURAZIONI |     |      |     |    |       |       |      |      |       | TENSIONI |         | DIREZIONE X   |                    |                    | DIREZIONE Y |       |               |                    |      |       |       |
|-----|-----|------|--------------|-----|------|-----|----|-------|-------|------|------|-------|----------|---------|---------------|--------------------|--------------------|-------------|-------|---------------|--------------------|------|-------|-------|
| GrQ | Gen | Nodo | Comb.        | Fes | Fess | dis | Co | MfX   | NX    | MFY  | NY   | cos   | sin      | Combina | $\sigma$ lim. | $\sigma$ cal.      | Co                 | Mf          | N     | $\sigma$ cal. | Co                 | Mf   | N     |       |
| N.r | N.r | N.ro | Cari         | lim | mm   | mm  | mb | dkN*m | kN/10 | mm   | mm   | mb    | dkN*m    | kN/10   | Carico        | dN/cm <sup>2</sup> | dN/cm <sup>2</sup> | mb          | dkN*m | kN/10         | dN/cm <sup>2</sup> | mb   | dkN*m | kN/10 |
| 1   | 7   | 145  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 1.6                | 14                 | 0.1         | -2.6  | 4.9           | 12                 | 0.3  | -7.2  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 5  | 0.1   | -1.7  | 0.3  | -5.9 | 0.000 | 0.000    | RaraFer | 3600          | 16                 | 14                 | 0.1         | -2.6  | 48            | 12                 | 0.3  | -7.2  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -1.7  | 0.3  | -5.9 | 0.000 | 0.000    | PermCls | 90.0          | 1.2                | 1                  | 0.1         | -1.7  | 4.2           | 1                  | 0.3  | -5.9  |       |
| 1   | 7   | 161  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 1.5                | 8                  | 0.1         | -2.5  | 4.6           | 6                  | 0.3  | -7.0  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 5  | 0.1   | -1.6  | 0.2  | -5.7 | 0.000 | 0.000    | RaraFer | 3600          | 15                 | 8                  | 0.1         | -2.5  | 46            | 6                  | 0.3  | -7.0  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | 0.1   | -1.6  | 0.2  | -5.7 | 0.000 | 0.000    | PermCls | 90.0          | 1.1                | 1                  | 0.1         | -1.6  | 3.9           | 1                  | 0.2  | -5.7  |       |
| 1   | 7   | 171  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 2.0                | 14                 | -0.1        | -2.6  | 7.9           | 11                 | -0.6 | -6.1  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 5  | -0.1  | -1.7  | -0.5 | -5.9 | 0.000 | 0.000    | RaraFer | 3600          | 19                 | 14                 | -0.1        | -2.6  | 72            | 11                 | -0.6 | -6.1  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -1.7  | -0.4 | -5.9 | 0.000 | 0.000    | PermCls | 90.0          | 1.6                | 1                  | -0.1        | -1.7  | 6.1           | 1                  | -0.4 | -5.9  |       |
| 1   | 7   | 180  | Rara         |     |      |     |    |       |       |      |      |       |          | RaraCls | 120.0         | 1.8                | 8                  | -0.1        | -2.5  | 7.1           | 11                 | -0.5 | -5.9  |       |
|     |     |      | Freq         | 0.4 | 0.00 | 0   | 5  | -0.1  | -1.6  | -0.4 | -5.7 | 0.000 | 0.000    | RaraFer | 3600          | 17                 | 8                  | -0.1        | -2.5  | 65            | 11                 | -0.5 | -5.9  |       |
|     |     |      | Perm         | 0.3 | 0.00 | 0   | 1  | -0.1  | -1.6  | -0.4 | -5.7 | 0.000 | 0.000    | PermCls | 90.0          | 1.4                | 1                  | -0.1        | -1.6  | 5.4           | 1                  | -0.4 | -5.7  |       |

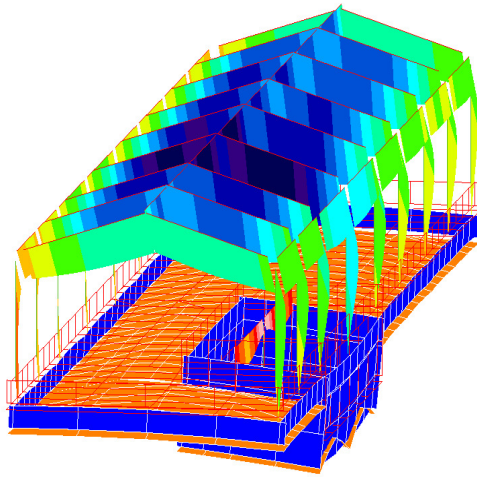


RISULTATI VERIFICHE NODI CLS

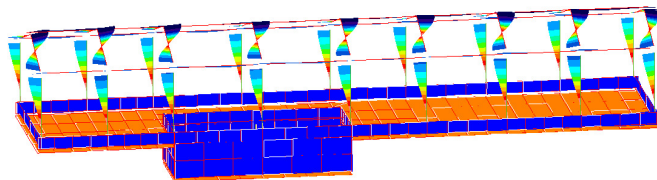
| RISULTATI VERIFICHE NODI CLS |       |      |      |    |              |     |      |                    |                    |            |                 |            |                 |                 |       |       |                 |       |        |        |  |
|------------------------------|-------|------|------|----|--------------|-----|------|--------------------|--------------------|------------|-----------------|------------|-----------------|-----------------|-------|-------|-----------------|-------|--------|--------|--|
| IDENTIFICATIVO               |       |      |      |    | GEOM.PILASTR |     |      | MATERIALE          |                    | DIR.X loc. |                 | DIR.Y loc. |                 | DIREZ. X locale |       |       | DIREZ. Y locale |       |        | STATUS |  |
| Filo                         | Quota | Nodo | Pos. | In | Sez          | Rot | HNod | fck                | fy                 | LyUt       | AfX             | LxUt       | AfY             | Njbd            | Vjbd  | Vjbr  | Njbd            | Vjbd  | Vjbr   |        |  |
| N.ro                         | (m)   | 3D   | Pila | t. | Nro          | Grd | cm   | kg/cm <sup>2</sup> | kg/cm <sup>2</sup> | cm         | cm <sup>2</sup> | cm         | cm <sup>2</sup> | kg              | kg    | kg    | kg              | kg    | kg     |        |  |
| 24                           | 2.00  | 10   | INF. | X  | 1            | 0   | 30   | 250                | 4500               | 30         | 0.0             |            | 0.0             | 0               | 448   | 37822 |                 |       |        | ELAST  |  |
| 1                            | 5.00  | 186  | INF. | SP | 5            | 0   | 52   | 250                | 4500               | 40         | 6.8             | 40         | 8.5             | 0               | 26504 | 74909 | 0               | 33130 | 74909  | FESS.  |  |
| 2                            | 5.00  | 187  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 10.1            | 60         | 2.1             | 0               | 39492 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 3                            | 5.00  | 188  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 10.0            | 60         | 2.1             | 0               | 39133 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 4                            | 5.00  | 189  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 8.8             | 60         | 2.1             | 0               | 34581 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 5                            | 5.00  | 190  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 10.0            | 60         | 2.1             | 0               | 39023 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 6                            | 5.00  | 191  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.6             | 60         | 2.1             | 0               | 37686 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 7                            | 5.00  | 192  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.5             | 60         | 2.1             | 0               | 36978 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 8                            | 5.00  | 193  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 10.0            | 60         | 2.1             | 0               | 39161 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 9                            | 5.00  | 194  | INF. | SP | 5            | 0   | 51   | 250                | 4500               | 40         | 6.8             | 40         | 8.5             | 0               | 26504 | 74909 | 0               | 33130 | 74909  | FESS.  |  |
| 10                           | 5.00  | 195  | INF. | SP | 5            | 0   | 51   | 250                | 4500               | 40         | 6.8             | 40         | 8.5             | 0               | 26504 | 74909 | 0               | 33130 | 74909  | FESS.  |  |
| 11                           | 5.00  | 196  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.9             | 60         | 2.1             | 0               | 38595 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 12                           | 5.00  | 197  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.2             | 60         | 2.1             | 0               | 35939 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 13                           | 5.00  | 198  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 8.7             | 60         | 2.1             | 0               | 34029 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 14                           | 5.00  | 199  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.1             | 60         | 2.1             | 0               | 35503 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 15                           | 5.00  | 200  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.2             | 60         | 2.1             | 0               | 36043 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 16                           | 5.00  | 201  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.2             | 60         | 2.1             | 0               | 35806 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 17                           | 5.00  | 202  | INF. | X  | 5            | 0   | 40   | 250                | 4500               | 40         | 9.7             | 60         | 2.1             | 0               | 37942 | 74909 | 0               | 26504 | 112363 | FESS.  |  |
| 18                           | 5.00  | 203  | INF. | SP | 5            | 0   | 52   | 250                | 4500               | 40         | 6.7             | 40         | 8.5             | 0               | 26124 | 74909 | 0               | 33130 | 74909  | FESS.  |  |

**7.11. VERIFICA SPOSTAMENTI**

Le NTC 2018 impongono che gli spostamenti dovuti a carichi statici e sismici debbano essere contenuti entro una certa entità; di seguito si riportano i diagrammi delle deformate nel caso statico (SLU) e nel caso sismico, nelle 2 direzioni.



**Figura 14: Valori deformati allo SLU**



**Figura 15: Valori deformati sisma direzione X**

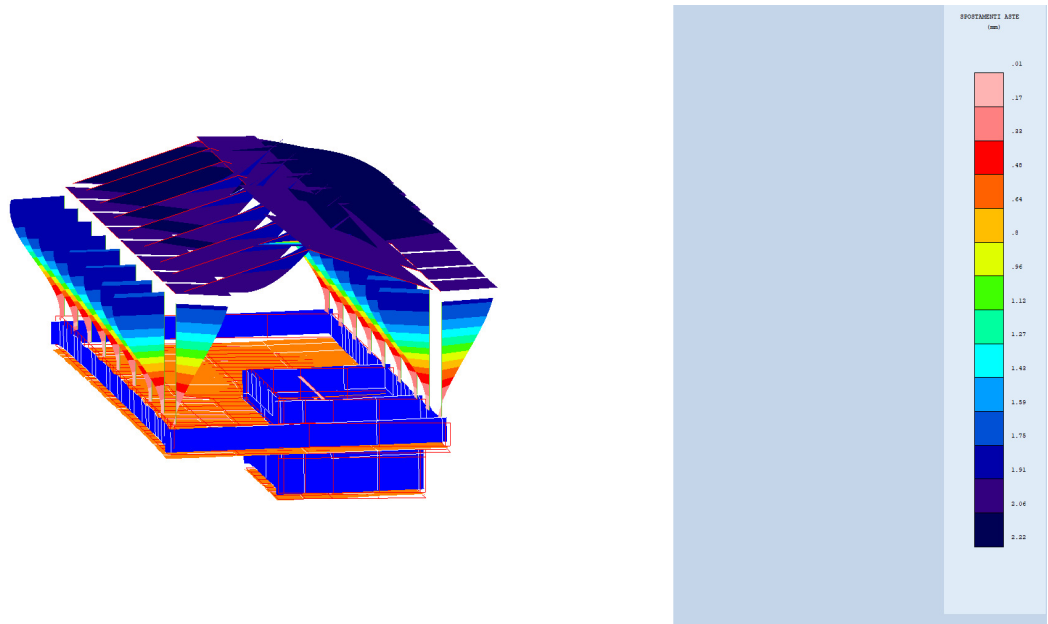


Figura 16: Valori deformati sisma direzione Y

Si riportano a seguire le tabelle riassuntive degli spostamenti computati e la relativa verifica.

| SPOSTAMENTI SISMICI RELATIVI |       |       |      |      |                  |      |          |          |                  |      |          |          |            |
|------------------------------|-------|-------|------|------|------------------|------|----------|----------|------------------|------|----------|----------|------------|
| IDENTIFICATIVO               |       |       |      |      | INVILUPPO S.L.D. |      |          |          | INVILUPPO S.L.O. |      |          |          |            |
| Filo                         | Quota | Quota | Nodo | Nodo | Sis              | Com  | Spostam. | Spostam. | Sis              | Com  | Spostam. | Spostam. | Stringa di |
| N.ro                         | inf.  | sup.  | inf. | sup. | ma               | bin  | Calcolo  | Limite   | ma               | bin  | Calcolo  | Limite   | Controllo  |
|                              | (m)   | (m)   | N.ro | N.ro | N.ro             | N.ro | (mm)     | (mm)     | N.ro             | N.ro | (mm)     | (mm)     | Verifica   |
| 1                            | 1.50  | 2.00  | 18   | 162  | 2                | 46   | 0.055    | 2.500    |                  |      |          |          | VERIFICATO |
| 1                            | 2.00  | 5.00  | 162  | 186  | 2                | 31   | 2.495    | 15.000   |                  |      |          |          | VERIFICATO |
| 2                            | 1.50  | 2.00  | 19   | 163  | 2                | 46   | 0.053    | 2.500    |                  |      |          |          | VERIFICATO |
| 2                            | 2.00  | 5.00  | 163  | 187  | 2                | 31   | 2.376    | 15.000   |                  |      |          |          | VERIFICATO |
| 3                            | 0.00  | 1.50  | 1    | 11   | 2                | 37   | 0.165    | 7.500    |                  |      |          |          | VERIFICATO |
| 3                            | 1.50  | 2.00  | 11   | 164  | 2                | 46   | 0.052    | 2.500    |                  |      |          |          | VERIFICATO |
| 3                            | 2.00  | 5.00  | 164  | 188  | 2                | 31   | 2.264    | 15.000   |                  |      |          |          | VERIFICATO |
| 4                            | 0.00  | 1.50  | 2    | 165  | 2                | 46   | 0.127    | 7.500    |                  |      |          |          | VERIFICATO |
| 4                            | 1.50  | 2.00  | 165  | 166  | 2                | 46   | 0.050    | 2.500    |                  |      |          |          | VERIFICATO |
| 4                            | 2.00  | 5.00  | 166  | 189  | 2                | 40   | 2.140    | 15.000   |                  |      |          |          | VERIFICATO |
| 5                            | 0.00  | 1.50  | 5    | 12   | 2                | 46   | 0.159    | 7.500    |                  |      |          |          | VERIFICATO |
| 5                            | 1.50  | 2.00  | 12   | 167  | 2                | 43   | 0.049    | 2.500    |                  |      |          |          | VERIFICATO |
| 5                            | 2.00  | 5.00  | 167  | 190  | 2                | 34   | 2.015    | 15.000   |                  |      |          |          | VERIFICATO |
| 6                            | 1.50  | 2.00  | 85   | 168  | 2                | 43   | 0.050    | 2.500    |                  |      |          |          | VERIFICATO |
| 6                            | 2.00  | 5.00  | 168  | 191  | 2                | 34   | 2.127    | 15.000   |                  |      |          |          | VERIFICATO |

**SPOSTAMENTI SISMICI RELATIVI**

| IDENTIFICATIVO |       |       |      | INVILUPPO S.L.D. |      |      |          | INVILUPPO S.L.O. |      |      |          |          |            |
|----------------|-------|-------|------|------------------|------|------|----------|------------------|------|------|----------|----------|------------|
| Filo           | Quota | Quota | Nodo | Nodo             | Sis  | Com  | Spostam. | Spostam.         | Sis  | Com  | Spostam. | Spostam. | Stringa di |
| N.ro           | inf.  | sup.  | inf. | sup.             | ma   | bin  | Calcolo  | Limite           | ma   | bin  | Calcolo  | Limite   | Controllo  |
|                | (m)   | (m)   | N.ro | N.ro             | N.ro | N.ro | (mm)     | (mm)             | N.ro | N.ro | (mm)     | (mm)     | Verifica   |
| 7              | 1.50  | 2.00  | 105  | 169              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 7              | 2.00  | 5.00  | 169  | 192              | 2    | 41   | 2.272    | 15.000           |      |      |          |          | VERIFICATO |
| 8              | 1.50  | 2.00  | 125  | 170              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 8              | 2.00  | 5.00  | 170  | 193              | 2    | 41   | 2.410    | 15.000           |      |      |          |          | VERIFICATO |
| 9              | 1.50  | 2.00  | 145  | 171              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 9              | 2.00  | 5.00  | 171  | 194              | 2    | 41   | 2.556    | 15.000           |      |      |          |          | VERIFICATO |
| 10             | 1.50  | 2.00  | 20   | 172              | 2    | 46   | 0.055    | 2.500            |      |      |          |          | VERIFICATO |
| 10             | 2.00  | 5.00  | 172  | 195              | 2    | 31   | 2.515    | 15.000           |      |      |          |          | VERIFICATO |
| 11             | 1.50  | 2.00  | 21   | 173              | 2    | 46   | 0.053    | 2.500            |      |      |          |          | VERIFICATO |
| 11             | 2.00  | 5.00  | 173  | 196              | 2    | 31   | 2.397    | 15.000           |      |      |          |          | VERIFICATO |
| 12             | 1.50  | 2.00  | 41   | 174              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 12             | 2.00  | 5.00  | 174  | 197              | 2    | 31   | 2.286    | 15.000           |      |      |          |          | VERIFICATO |
| 13             | 1.50  | 2.00  | 62   | 175              | 2    | 46   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 13             | 2.00  | 5.00  | 175  | 198              | 2    | 40   | 2.114    | 15.000           |      |      |          |          | VERIFICATO |
| 14             | 1.50  | 2.00  | 81   | 176              | 2    | 46   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 14             | 2.00  | 5.00  | 176  | 199              | 2    | 41   | 2.013    | 15.000           |      |      |          |          | VERIFICATO |
| 15             | 1.50  | 2.00  | 101  | 177              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 15             | 2.00  | 5.00  | 177  | 200              | 2    | 41   | 2.152    | 15.000           |      |      |          |          | VERIFICATO |
| 16             | 1.50  | 2.00  | 121  | 178              | 2    | 43   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 16             | 2.00  | 5.00  | 178  | 201              | 2    | 41   | 2.300    | 15.000           |      |      |          |          | VERIFICATO |
| 17             | 1.50  | 2.00  | 141  | 179              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 17             | 2.00  | 5.00  | 179  | 202              | 2    | 41   | 2.437    | 15.000           |      |      |          |          | VERIFICATO |
| 18             | 1.50  | 2.00  | 161  | 180              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 18             | 2.00  | 5.00  | 180  | 203              | 2    | 41   | 2.581    | 15.000           |      |      |          |          | VERIFICATO |
| 19             | 0.00  | 1.50  | 3    | 13               | 2    | 37   | 0.162    | 7.500            |      |      |          |          | VERIFICATO |
| 19             | 1.50  | 2.00  | 13   | 181              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 20             | 0.00  | 1.50  | 9    | 16               | 2    | 37   | 0.160    | 7.500            |      |      |          |          | VERIFICATO |
| 20             | 1.50  | 2.00  | 16   | 182              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 21             | 0.00  | 1.50  | 6    | 17               | 2    | 46   | 0.155    | 7.500            |      |      |          |          | VERIFICATO |

**SPOSTAMENTI SISMICI RELATIVI**

| IDENTIFICATIVO |       |       |      | INVILUPPO S.L.D. |      |      |          | INVILUPPO S.L.O. |      |      |          |          |            |
|----------------|-------|-------|------|------------------|------|------|----------|------------------|------|------|----------|----------|------------|
| Filo           | Quota | Quota | Nodo | Nodo             | Sis  | Com  | Spostam. | Spostam.         | Sis  | Com  | Spostam. | Spostam. | Stringa di |
| N.ro           | inf.  | sup.  | inf. | sup.             | ma   | bin  | Calcolo  | Limite           | ma   | bin  | Calcolo  | Limite   | Controllo  |
|                | (m)   | (m)   | N.ro | N.ro             | N.ro | N.ro | (mm)     | (mm)             | N.ro | N.ro | (mm)     | (mm)     | Verifica   |
| 21             | 1.50  | 2.00  | 17   | 183              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 22             | 0.00  | 1.50  | 8    | 14               | 2    | 46   | 0.153    | 7.500            |      |      |          |          | VERIFICATO |
| 22             | 1.50  | 2.00  | 14   | 184              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 23             | 0.00  | 1.50  | 7    | 15               | 2    | 46   | 0.126    | 7.500            |      |      |          |          | VERIFICATO |
| 23             | 1.50  | 2.00  | 15   | 185              | 2    | 46   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 24             | 0.00  | 2.00  | 4    | 10               | 2    | 46   | 0.175    | 10.000           |      |      |          |          | VERIFICATO |
| 25             | 1.50  | 2.00  | 290  | 356              | 2    | 46   | 0.055    | 2.500            |      |      |          |          | VERIFICATO |
| 25             | 2.00  | 6.00  | 356  | 204              | 2    | 31   | 2.521    | 20.000           |      |      |          |          | VERIFICATO |
| 26             | 1.50  | 6.00  | 29   | 206              | 2    | 31   | 2.454    | 22.500           |      |      |          |          | VERIFICATO |
| 30             | 1.50  | 6.00  | 93   | 207              | 2    | 41   | 2.196    | 22.500           |      |      |          |          | VERIFICATO |
| 31             | 1.50  | 6.00  | 113  | 208              | 2    | 41   | 2.343    | 22.500           |      |      |          |          | VERIFICATO |
| 32             | 1.50  | 6.00  | 133  | 209              | 2    | 41   | 2.478    | 22.500           |      |      |          |          | VERIFICATO |
| 33             | 1.50  | 2.00  | 153  | 359              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 33             | 2.00  | 6.00  | 359  | 205              | 2    | 41   | 2.569    | 20.000           |      |      |          |          | VERIFICATO |
| 34             | 1.50  | 2.00  | 22   | 304              | 2    | 46   | 0.053    | 2.500            |      |      |          |          | VERIFICATO |
| 35             | 1.50  | 2.00  | 23   | 305              | 2    | 46   | 0.053    | 2.500            |      |      |          |          | VERIFICATO |
| 36             | 1.50  | 2.00  | 24   | 306              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 48             | 1.50  | 2.00  | 37   | 334              | 2    | 46   | 0.053    | 2.500            |      |      |          |          | VERIFICATO |
| 49             | 1.50  | 2.00  | 38   | 335              | 2    | 46   | 0.053    | 2.500            |      |      |          |          | VERIFICATO |
| 50             | 1.50  | 2.00  | 39   | 336              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 52             | 0.00  | 1.50  | 246  | 42               | 2    | 37   | 0.148    | 7.500            |      |      |          |          | VERIFICATO |
| 52             | 1.50  | 2.00  | 42   | 365              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 53             | 0.00  | 1.50  | 247  | 43               | 2    | 37   | 0.137    | 7.500            |      |      |          |          | VERIFICATO |
| 53             | 1.50  | 2.00  | 43   | 366              | 2    | 46   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 54             | 0.00  | 1.50  | 248  | 44               | 2    | 37   | 0.129    | 7.500            |      |      |          |          | VERIFICATO |
| 54             | 1.50  | 2.00  | 44   | 367              | 2    | 46   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 69             | 1.50  | 2.00  | 59   | 337              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 70             | 1.50  | 2.00  | 60   | 338              | 2    | 46   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 71             | 1.50  | 2.00  | 61   | 339              | 2    | 46   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |

**SPOSTAMENTI SISMICI RELATIVI**

| IDENTIFICATIVO |       |       |      | INVILUPPO S.L.D. |      |      |          | INVILUPPO S.L.O. |      |      |          |          |            |
|----------------|-------|-------|------|------------------|------|------|----------|------------------|------|------|----------|----------|------------|
| Filo           | Quota | Quota | Nodo | Nodo             | Sis  | Com  | Spostam. | Spostam.         | Sis  | Com  | Spostam. | Spostam. | Stringa di |
| N.ro           | inf.  | sup.  | inf. | sup.             | ma   | bin  | Calcolo  | Limite           | ma   | bin  | Calcolo  | Limite   | Controllo  |
|                | (m)   | (m)   | N.ro | N.ro             | N.ro | N.ro | (mm)     | (mm)             | N.ro | N.ro | (mm)     | (mm)     | Verifica   |
| 72             | 0.00  | 1.50  | 239  | 63               | 2    | 46   | 0.127    | 7.500            |      |      |          |          | VERIFICATO |
| 72             | 1.50  | 2.00  | 63   | 368              | 2    | 46   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 73             | 0.00  | 1.50  | 240  | 64               | 2    | 46   | 0.132    | 7.500            |      |      |          |          | VERIFICATO |
| 73             | 1.50  | 2.00  | 64   | 369              | 2    | 46   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 74             | 0.00  | 1.50  | 241  | 65               | 2    | 46   | 0.142    | 7.500            |      |      |          |          | VERIFICATO |
| 74             | 1.50  | 2.00  | 65   | 370              | 2    | 46   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 87             | 1.50  | 2.00  | 78   | 340              | 2    | 46   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 88             | 1.50  | 2.00  | 79   | 341              | 2    | 46   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 89             | 1.50  | 2.00  | 80   | 342              | 2    | 46   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 90             | 1.50  | 2.00  | 82   | 319              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 91             | 1.50  | 2.00  | 83   | 320              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 92             | 1.50  | 2.00  | 84   | 321              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 104            | 1.50  | 2.00  | 98   | 343              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 105            | 1.50  | 2.00  | 99   | 344              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 106            | 1.50  | 2.00  | 100  | 345              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 107            | 1.50  | 2.00  | 102  | 322              | 2    | 43   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 108            | 1.50  | 2.00  | 103  | 323              | 2    | 43   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 109            | 1.50  | 2.00  | 104  | 324              | 2    | 43   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 121            | 1.50  | 2.00  | 118  | 346              | 2    | 43   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 122            | 1.50  | 2.00  | 119  | 347              | 2    | 43   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 123            | 1.50  | 2.00  | 120  | 348              | 2    | 43   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 124            | 1.50  | 2.00  | 122  | 325              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 125            | 1.50  | 2.00  | 123  | 326              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 126            | 1.50  | 2.00  | 124  | 327              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 138            | 1.50  | 2.00  | 138  | 349              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 139            | 1.50  | 2.00  | 139  | 350              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 140            | 1.50  | 2.00  | 140  | 351              | 2    | 43   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 141            | 1.50  | 2.00  | 142  | 328              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 142            | 1.50  | 2.00  | 143  | 329              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |

**SPOSTAMENTI SISMICI RELATIVI**

| IDENTIFICATIVO |       |       |      | INVILUPPO S.L.D. |      |      |          | INVILUPPO S.L.O. |      |      |          |          |            |
|----------------|-------|-------|------|------------------|------|------|----------|------------------|------|------|----------|----------|------------|
| Filo           | Quota | Quota | Nodo | Nodo             | Sis  | Com  | Spostam. | Spostam.         | Sis  | Com  | Spostam. | Spostam. | Stringa di |
| N.ro           | inf.  | sup.  | inf. | sup.             | ma   | bin  | Calcolo  | Limite           | ma   | bin  | Calcolo  | Limite   | Controllo  |
|                | (m)   | (m)   | N.ro | N.ro             | N.ro | N.ro | (mm)     | (mm)             | N.ro | N.ro | (mm)     | (mm)     | Verifica   |
| 143            | 1.50  | 2.00  | 144  | 330              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 147            | 1.50  | 2.00  | 149  | 358              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 154            | 1.50  | 2.00  | 157  | 360              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 155            | 1.50  | 2.00  | 158  | 352              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 156            | 1.50  | 2.00  | 159  | 353              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 157            | 1.50  | 2.00  | 160  | 354              | 2    | 43   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 158            | 0.00  | 1.50  | 213  | 307              | 2    | 37   | 0.149    | 7.500            |      |      |          |          | VERIFICATO |
| 158            | 1.50  | 2.00  | 307  | 310              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 159            | 0.00  | 1.50  | 214  | 308              | 2    | 37   | 0.137    | 7.500            |      |      |          |          | VERIFICATO |
| 159            | 1.50  | 2.00  | 308  | 311              | 2    | 46   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 160            | 0.00  | 1.50  | 215  | 309              | 2    | 37   | 0.130    | 7.500            |      |      |          |          | VERIFICATO |
| 160            | 1.50  | 2.00  | 309  | 312              | 2    | 46   | 0.051    | 2.500            |      |      |          |          | VERIFICATO |
| 161            | 0.00  | 1.50  | 216  | 266              | 2    | 37   | 0.164    | 7.500            |      |      |          |          | VERIFICATO |
| 161            | 1.50  | 2.00  | 266  | 361              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 169            | 0.00  | 1.50  | 224  | 313              | 2    | 46   | 0.128    | 7.500            |      |      |          |          | VERIFICATO |
| 169            | 1.50  | 2.00  | 313  | 316              | 2    | 46   | 0.050    | 2.500            |      |      |          |          | VERIFICATO |
| 170            | 0.00  | 1.50  | 225  | 314              | 2    | 46   | 0.133    | 7.500            |      |      |          |          | VERIFICATO |
| 170            | 1.50  | 2.00  | 314  | 317              | 2    | 46   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 171            | 0.00  | 1.50  | 226  | 315              | 2    | 46   | 0.143    | 7.500            |      |      |          |          | VERIFICATO |
| 171            | 1.50  | 2.00  | 315  | 318              | 2    | 46   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 175            | 0.00  | 1.50  | 230  | 280              | 2    | 46   | 0.158    | 7.500            |      |      |          |          | VERIFICATO |
| 175            | 1.50  | 2.00  | 280  | 363              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 183            | 0.00  | 1.50  | 238  | 282              | 2    | 46   | 0.154    | 7.500            |      |      |          |          | VERIFICATO |
| 183            | 1.50  | 2.00  | 282  | 364              | 2    | 43   | 0.049    | 2.500            |      |      |          |          | VERIFICATO |
| 184            | 0.00  | 1.50  | 242  | 277              | 2    | 37   | 0.160    | 7.500            |      |      |          |          | VERIFICATO |
| 184            | 1.50  | 2.00  | 277  | 362              | 2    | 46   | 0.052    | 2.500            |      |      |          |          | VERIFICATO |
| 188            | 1.50  | 2.00  | 283  | 301              | 2    | 46   | 0.054    | 2.500            |      |      |          |          | VERIFICATO |
| 189            | 1.50  | 2.00  | 284  | 302              | 2    | 46   | 0.054    | 2.500            |      |      |          |          | VERIFICATO |
| 190            | 1.50  | 2.00  | 285  | 303              | 2    | 46   | 0.054    | 2.500            |      |      |          |          | VERIFICATO |

**SPOSTAMENTI SISMICI RELATIVI**

| IDENTIFICATIVO |       |       |      | INVILUPPO S.L.D. |      |      |          | INVILUPPO S.L.O. |      |      |          |          |            |
|----------------|-------|-------|------|------------------|------|------|----------|------------------|------|------|----------|----------|------------|
| Filo           | Quota | Quota | Nodo | Nodo             | Sis  | Com  | Spostam. | Spostam.         | Sis  | Com  | Spostam. | Spostam. | Stringa di |
| N.ro           | inf.  | sup.  | inf. | sup.             | ma   | bin  | Calcolo  | Limite           | ma   | bin  | Calcolo  | Limite   | Controllo  |
|                | (m)   | (m)   | N.ro | N.ro             | N.ro | N.ro | (mm)     | (mm)             | N.ro | N.ro | (mm)     | (mm)     | Verifica   |
| 191            | 1.50  | 2.00  | 286  | 355              | 2    | 46   | 0.055    | 2.500            |      |      |          |          | VERIFICATO |
| 198            | 1.50  | 2.00  | 294  | 357              | 2    | 46   | 0.055    | 2.500            |      |      |          |          | VERIFICATO |
| 202            | 1.50  | 2.00  | 298  | 331              | 2    | 46   | 0.054    | 2.500            |      |      |          |          | VERIFICATO |
| 203            | 1.50  | 2.00  | 299  | 332              | 2    | 46   | 0.054    | 2.500            |      |      |          |          | VERIFICATO |
| 204            | 1.50  | 2.00  | 300  | 333              | 2    | 46   | 0.054    | 2.500            |      |      |          |          | VERIFICATO |
| 205            | 0.00  | 1.50  | 249  | 260              | 2    | 37   | 0.148    | 7.500            |      |      |          |          | VERIFICATO |
| 206            | 0.00  | 1.50  | 250  | 261              | 2    | 37   | 0.128    | 7.500            |      |      |          |          | VERIFICATO |
| 207            | 0.00  | 1.50  | 251  | 262              | 2    | 46   | 0.125    | 7.500            |      |      |          |          | VERIFICATO |
| 208            | 0.00  | 1.50  | 252  | 263              | 2    | 46   | 0.144    | 7.500            |      |      |          |          | VERIFICATO |

**8. VERIFICA PORTANZA DELLE FONDAZIONI**

**8.1. NORMATIVA DI RIFERIMENTO**

I calcoli sono condotti nel pieno rispetto della normativa vigente e, in particolare, la normativa cui viene fatto riferimento nelle fasi di calcolo, verifica e progettazione è costituita dalle Norme Tecniche per le Costruzioni, emanate con il D.M. 17/01/2018 pubblicato nel suppl. 8 G.U. 42 del 20/02/2018, nonché la Circolare del Ministero Infrastrutture e Trasporti del 21 Gennaio 2019, n. 7 "Istruzioni per l'applicazione delle nuove norme tecniche per le costruzioni".

Per il calcolo delle strutture in oggetto si adotteranno i criteri della Geotecnica e della Scienza delle Costruzioni.

**8.2. CAPACITÀ PORTANTE DI FONDAZIONI SUPERFICIALI**

La verifica della capacità portante consiste nel confronto tra la pressione verticale di esercizio in fondazione e la pressione limite per il terreno, valutata secondo Brinch-Hansen:

$$q_{lim} = q N_q Y_q i_q d_q b_q g_q s_q + c N_c Y_c i_c d_c b_c g_c s_c + G B' N_g Y_g i_g b_g s_g$$

dove:

Caratteristiche geometriche della fondazione:

q = carico sul piano di fondazione

B = lato minore della fondazione

L = lato maggiore della fondazione

D = profondità della fondazione

$\alpha$  = inclinazione base della fondazione



G = peso specifico del terreno

B' = larghezza di fondazione ridotta = B - 2 eB

L' = lunghezza di fondazione ridotta = L - 2 eL

Caratteristiche di carico sulla fondazione:

H = risultante delle forze orizzontali

N = risultante delle forze verticali

eB = eccentricità del carico verticale lungo B

eL = eccentricità del carico verticale lungo L

FhB = forza orizzontale lungo B

FhL = forza orizzontale lungo L

Caratteristiche del terreno di fondazione:

$\beta$  = inclinazione terreno a valle

c = cu = coesione non drenata (condizioni U)

c = c' = coesione drenata (condizioni D)

$\Gamma$  = peso specifico apparente (condizioni U)

$\Gamma$  =  $\Gamma'$  = peso specifico sommerso (condizioni D)

$\phi = 0$  = angolo di attrito interno (condizioni U)

$\phi = \phi'$  = angolo di attrito interno (condizioni D)

Fattori di capacità portante:

$$Nq = \tan^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \exp(\pi \cdot \tan \phi) \quad (\text{Prandtl-Cauchot-Meyerhof})$$

$$Ng = 2(Nq + 1) \tan \phi \quad (\text{Vesic})$$

$$Nc = \frac{Nq - 1}{\tan \phi} \quad \text{in condizioni D} \quad (\text{Reissner-Meyerhof})$$

$$Nc = 5,14 \quad \text{in condizioni U}$$

Indici di rigidezza (condizioni D):

$$Ir = \frac{G}{c' + q' \tan \phi} = \text{indice di rigidezza}$$

$$q' = \text{pressione litostatica efficace alla profondità } D + \frac{B}{2}$$

$$G = \frac{E}{2(1 + \mu)} = \text{modulo elastico tangenziale}$$

$$E = \text{modulo elastico normale}$$

$\mu$  = coefficiente di Poisson

$$I_{cr} = \frac{1}{2} \exp \left[ \frac{3,3 - 0,45 \frac{B}{L}}{\tan(45 - \frac{\phi'}{2})} \right] = \text{indice di rigidità critica}$$

Coefficienti di punzonamento (Vesic):

$$Y_q = Y_g = \exp \left[ \left( 0,6 \frac{B}{L} - 4,4 \right) \tan \phi' + \frac{3,07 \sin \phi' \log(2Ir)}{1 + \sin \phi'} \right] \text{ in condizioni drenate, per } Ir \leq I_{cr}$$

$$Y_c = Y_q - \frac{1 - Y_q}{Nq \times \tan \phi'}$$

Coefficienti di inclinazione del carico (Vesic):

$$i_g = \left( \frac{1 - H}{N + B \times L \times c' \times \cot \phi'} \right)^{m+1}$$

$$i_q = \left( \frac{1 - H}{N + B \times L \times c' \times \cot \phi'} \right)^m$$

$$i_c = i_q - \frac{1 - i_q}{Nc \times \tan \phi'} \quad \text{in condizioni D}$$

$$i_c = 1 - \frac{m \times H}{B \times L \times cu \times Nc} \quad \text{in condizioni U}$$

essendo:

$$m = mB \cos^2 \Theta + mL \sin^2 \Theta$$

$$mB = \frac{2 + \frac{B'}{L'}}{1 + \frac{B'}{L'}} \quad mL = \frac{2 + \frac{L'}{B'}}{1 + \frac{L'}{B'}} \quad \Theta = \tan^{-1} \frac{Fh \times B}{Fh \times L}$$

Coefficienti di affondamento del piano di posa (Brinch-Hansen):

$$dq = 1 + 2 \tan \phi (1 - \sin \phi)^2 \arctg \frac{D}{B'} \quad \text{per } D > B'$$

$$dq = 1 + 2 \frac{D}{B'} \tan \phi (1 - \sin \phi)^2 \quad \text{per } D \leq B'$$

$$dc = dq - \frac{1 - dq}{Nc \times \tan \phi} \quad \text{in condizioni D}$$

$$dc = 1 + 0,4 \arctan \frac{D}{B'} \quad \text{per } D > B' \text{ in condizioni U}$$

$$dc = 1 + 0,4 \frac{D}{B'} \quad \text{per } D \leq B' \text{ in condizioni U}$$

Coefficienti di inclinazione del piano di posa:

$$bg = \exp(-2,7\alpha \tan\phi)$$

$$bc = bq = \exp(-2\alpha \tan\phi) \quad \text{in condizioni D}$$

$$bc = 1 - \frac{\alpha}{147} \quad \text{in condizioni U}$$

$$bq = 1 \quad \text{in condizioni U)}$$

Coefficienti di inclinazione del terreno di fondazione:

$$gc = gq = \sqrt{1 - 0,5 \tan\beta} \quad \text{in condizioni D}$$

$$gc = 1 - \frac{\beta}{147} \quad \text{in condizioni U}$$

$$gq = 1 \quad \text{in condizioni U}$$

Coefficienti di forma (De Beer):

$$sg = 1 - 0,4 \frac{B'}{L'} ; sq = 1 + \frac{B'}{L'} \tan\phi ; sc = 1 + \frac{B' Nq}{L' Nc}$$

L'azione del sisma si traduce in accelerazioni nel sottosuolo (effetto cinematico) e nella fondazione, per l'azione delle forze d'inerzia generate nella struttura in elevazione (effetto inerziale). Tali effetti possono essere portati in conto mediante l'introduzione di coefficienti sismici rispettivamente denominati Khi e Igk, il primo definito dal rapporto tra le componenti orizzontale e verticale dei carichi trasmessi in fondazione ed il secondo funzione dell'accelerazione massima attesa al sito. L'effetto inerziale produce variazioni di tutti i coefficienti di capacità portante del carico limite in funzione del coefficiente sismico Khi e viene portato in conto impiegando le formule comunemente adottate per calcolare i coefficienti correttivi del carico limite in funzione dell'inclinazione, rispetto alla verticale, del carico agente sul piano di posa. Nel caso in cui sia stato attivato il flag per tener conto degli effetti cinematici il valore Igk modifica invece il solo coefficiente Ng; il fattore Ng viene infatti moltiplicato sia per il coefficiente correttivo dell'effetto inerziale, sia per il coefficiente correttivo per l'effetto cinematico.

### 8.3. CALCOLO DEI CEDIMENTI

Il calcolo viene eseguito sulla base della conoscenza delle tensioni nel sottosuolo.

$$\mu = \int \frac{\sigma(z)}{E} dz$$

essendo

E = modulo elastico o edometrico

$\sigma(z)$  = tensione verticale nel sottosuolo dovuta all'incremento di carico q

La distribuzione delle tensioni verticali viene valutata secondo l'espressione di Steinbrenner, considerando la pressione agente uniformemente su una superficie rettangolare di dimensioni B e L:

$$\sigma(z) = \frac{q}{4\pi} \left[ \frac{2 \times M \times N \times \sqrt{V} \times (V+1)}{V(V+V1)} + \left| \arctan \frac{2 \times M \times N \times \sqrt{V}}{V-V1} \right| \right]$$

con:

$$M = B / z$$

$$N = L / z$$

$$V = M^2 + N^2 + 1$$

$$V1 = (M \times N)^2$$

Le immagini di seguito mostrano i risultati ottenuti in termini di bulbo tensionale indotto, pressione sul terreno e cedimenti attesi all'SLU.



Figura 17: Bulbo tensionale della verticale più caricata

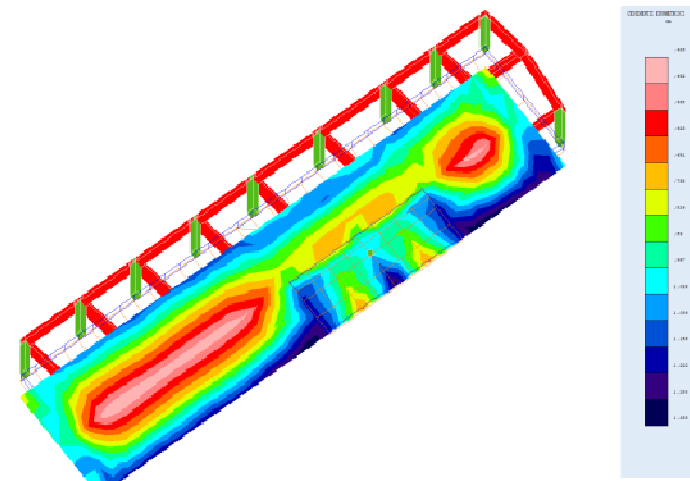
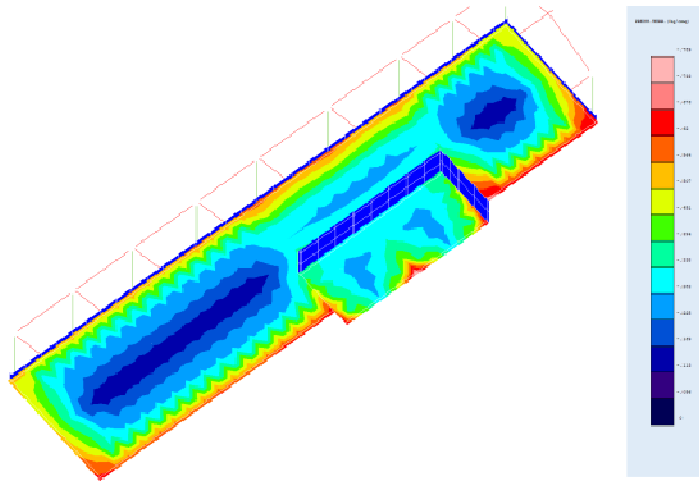


Figura 18: Cedimenti edometrici



**Figura 19: Pressioni indotte al suolo**

Vengono riportati a seguire i tabulati di calcolo:

| <b>DATI GENERALI</b>                                  |                                |                 |                 |
|-------------------------------------------------------|--------------------------------|-----------------|-----------------|
| <b>COEFFICIENTI PARZIALI GEOTECNICA</b>               |                                |                 |                 |
|                                                       | TABELLA M1                     |                 | TABELLA M2      |
| Tangente Resist. Taglio                               | 1.00                           |                 |                 |
| Peso Specifico                                        | 1.00                           |                 |                 |
| Coesione Efficace (c'k)                               | 1.00                           |                 |                 |
| Resist. a taglio NON drenata (cuk)                    | 1.00                           |                 |                 |
| Tipo Approccio                                        | Combinazione Unica: (A1+M1+R3) |                 |                 |
| Tipo di fondazione                                    | Su Pali Infissi                |                 |                 |
|                                                       | COEFFICIENTE R1                | COEFFICIENTE R2 | COEFFICIENTE R3 |
| Capacita' Portante                                    |                                |                 | 2.30            |
| Scorrimento                                           |                                |                 | 1.10            |
| Resist. alla Base                                     |                                |                 | 1.15            |
| Resist. Lat. a Compr.                                 |                                |                 | 1.15            |
| Resist. Lat. a Traz.                                  |                                |                 | 1.25            |
| Carichi Trasversali                                   |                                |                 | 1.30            |
| Fattore di correlazione CSI per il calcolo di Rk pali |                                |                 | 1.70            |

**CRITERI DI PROGETTO GEOTECNICI - FONDAZIONI SUPERFICIALI**

| IDEN | CARATTERISTICHE DI SITO |        |        |        |        | IDEN | CARATTERISTICHE DI SITO |        |        |        |        | IDEN | CARATTERISTICHE DI SITO |        |        |        |        |
|------|-------------------------|--------|--------|--------|--------|------|-------------------------|--------|--------|--------|--------|------|-------------------------|--------|--------|--------|--------|
| Crit | Falda                   | Affond | Ricopr | Pend.X | Pend.Y | Crit | Falda                   | Affond | Ricopr | Pend.X | Pend.Y | Crit | Falda                   | Affond | Ricopr | Pend.X | Pend.Y |
| N.ro | (m)                     | (m)    | (m)    | (grd)  | (Grd)  | N.ro | (m)                     | (m)    | (m)    | (grd)  | (Grd)  | N.ro | (m)                     | (m)    | (m)    | (grd)  | (Grd)  |
| 1    |                         | 0.00   | 0.00   | 0      | 0      | 2    |                         | 2.00   | 2.00   | 0      | 0      |      |                         |        |        |        |        |

**GEOMETRIA PLATEA**

| Shell | Nodo | Nodo | Nodo | Nodo | Sez  | Shell | Nodo | Nodo | Nodo | Nodo | Sez  | Shell | Nodo | Nodo | Nodo | Nodo | Sez  | Shell | Nodo | Nodo | Nodo | Nodo | Sez  |
|-------|------|------|------|------|------|-------|------|------|------|------|------|-------|------|------|------|------|------|-------|------|------|------|------|------|
| N.ro  | 1    | 2    | 3    | 4    | N.ro | N.ro  | 1    | 2    | 3    | 4    | N.ro | N.ro  | 1    | 2    | 3    | 4    | N.ro | N.ro  | 1    | 2    | 3    | 4    | N.ro |
| 1     | 1    | 2    | 4    | 3    | 1    | 2     | 2    | 5    | 6    | 4    | 1    | 3     | 4    | 6    | 8    | 7    | 1    | 4     | 3    | 4    | 7    | 9    | 1    |
| 12    | 18   | 19   | 21   | 20   | 1    | 13    | 19   | 22   | 26   | 25   | 1    | 14    | 22   | 23   | 27   | 26   | 1    | 15    | 23   | 24   | 28   | 27   | 1    |
| 16    | 24   | 11   | 13   | 28   | 1    | 17    | 25   | 26   | 30   | 29   | 1    | 18    | 26   | 27   | 31   | 30   | 1    | 19    | 27   | 28   | 32   | 31   | 1    |
| 20    | 28   | 13   | 16   | 32   | 1    | 21    | 29   | 30   | 34   | 33   | 1    | 22    | 30   | 31   | 35   | 34   | 1    | 23    | 31   | 32   | 36   | 35   | 1    |
| 24    | 32   | 16   | 40   | 36   | 1    | 25    | 33   | 34   | 37   | 21   | 1    | 26    | 34   | 35   | 38   | 37   | 1    | 27    | 35   | 36   | 39   | 38   | 1    |
| 28    | 36   | 40   | 41   | 39   | 1    | 29    | 16   | 42   | 46   | 45   | 1    | 30    | 42   | 43   | 47   | 46   | 1    | 31    | 43   | 44   | 48   | 47   | 1    |
| 32    | 44   | 15   | 49   | 48   | 1    | 33    | 45   | 46   | 50   | 40   | 1    | 34    | 46   | 47   | 51   | 50   | 1    | 35    | 47   | 48   | 52   | 51   | 1    |
| 36    | 48   | 49   | 53   | 52   | 1    | 37    | 40   | 50   | 55   | 54   | 1    | 38    | 50   | 51   | 56   | 55   | 1    | 39    | 51   | 52   | 57   | 56   | 1    |
| 40    | 52   | 53   | 58   | 57   | 1    | 41    | 54   | 55   | 59   | 41   | 1    | 42    | 55   | 56   | 60   | 59   | 1    | 43    | 56   | 57   | 61   | 60   | 1    |
| 44    | 57   | 58   | 62   | 61   | 1    | 45    | 15   | 63   | 66   | 49   | 1    | 46    | 63   | 64   | 67   | 66   | 1    | 47    | 64   | 65   | 68   | 67   | 1    |
| 48    | 65   | 14   | 69   | 68   | 1    | 49    | 49   | 66   | 70   | 53   | 1    | 50    | 66   | 67   | 71   | 70   | 1    | 51    | 67   | 68   | 72   | 71   | 1    |
| 52    | 68   | 69   | 73   | 72   | 1    | 53    | 53   | 70   | 74   | 58   | 1    | 54    | 70   | 71   | 75   | 74   | 1    | 55    | 71   | 72   | 76   | 75   | 1    |
| 56    | 72   | 73   | 77   | 76   | 1    | 57    | 58   | 74   | 78   | 62   | 1    | 58    | 74   | 75   | 79   | 78   | 1    | 59    | 75   | 76   | 80   | 79   | 1    |
| 60    | 76   | 77   | 81   | 80   | 1    | 61    | 12   | 82   | 86   | 17   | 1    | 62    | 82   | 83   | 87   | 86   | 1    | 63    | 83   | 84   | 88   | 87   | 1    |
| 64    | 84   | 85   | 89   | 88   | 1    | 65    | 17   | 86   | 90   | 14   | 1    | 66    | 86   | 87   | 91   | 90   | 1    | 67    | 87   | 88   | 92   | 91   | 1    |
| 68    | 88   | 89   | 93   | 92   | 1    | 69    | 69   | 14   | 90   | 94   | 1    | 70    | 90   | 91   | 95   | 94   | 1    | 71    | 91   | 92   | 96   | 95   | 1    |
| 72    | 92   | 93   | 97   | 96   | 1    | 73    | 73   | 94   | 98   | 77   | 1    | 74    | 94   | 95   | 99   | 98   | 1    | 75    | 95   | 96   | 100  | 99   | 1    |
| 76    | 96   | 97   | 101  | 100  | 1    | 77    | 73   | 69   | 94   | 94   | 1    | 78    | 77   | 98   | 81   | 81   | 1    | 79    | 85   | 102  | 106  | 89   | 1    |
| 80    | 102  | 103  | 107  | 106  | 1    | 81    | 103  | 104  | 108  | 107  | 1    | 82    | 104  | 105  | 109  | 108  | 1    | 83    | 89   | 106  | 110  | 93   | 1    |
| 84    | 106  | 107  | 111  | 110  | 1    | 85    | 107  | 108  | 112  | 111  | 1    | 86    | 108  | 109  | 113  | 112  | 1    | 87    | 93   | 110  | 114  | 97   | 1    |
| 88    | 110  | 111  | 115  | 114  | 1    | 89    | 111  | 112  | 116  | 115  | 1    | 90    | 112  | 113  | 117  | 116  | 1    | 91    | 97   | 114  | 118  | 101  | 1    |
| 92    | 114  | 115  | 119  | 118  | 1    | 93    | 115  | 116  | 120  | 119  | 1    | 94    | 116  | 117  | 121  | 120  | 1    | 95    | 105  | 122  | 126  | 109  | 1    |
| 96    | 122  | 123  | 127  | 126  | 1    | 97    | 123  | 124  | 128  | 127  | 1    | 98    | 124  | 125  | 129  | 128  | 1    | 99    | 109  | 126  | 130  | 113  | 1    |
| 100   | 126  | 127  | 131  | 130  | 1    | 101   | 127  | 128  | 132  | 131  | 1    | 102   | 128  | 129  | 133  | 132  | 1    | 103   | 113  | 130  | 134  | 117  | 1    |
| 104   | 130  | 131  | 135  | 134  | 1    | 105   | 131  | 132  | 136  | 135  | 1    | 106   | 132  | 133  | 137  | 136  | 1    | 107   | 117  | 134  | 138  | 121  | 1    |
| 108   | 134  | 135  | 139  | 138  | 1    | 109   | 135  | 136  | 140  | 139  | 1    | 110   | 136  | 137  | 141  | 140  | 1    | 111   | 125  | 142  | 146  | 129  | 1    |



COMBINAZIONI CARICHI - S.L.U. - A1

| DESCRIZIONI          | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Perm.Non Strutturale | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Var.Bibl.Arch.       | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  |
| Var.Neve h<=1000     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Var.Coperture        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 0         | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 90        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 180       | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 270       | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Corr. Tors. dir. 0   | -1.00 | 1.00  | -1.00 | 1.00  | -1.00 | 1.00  | -1.00 | -1.00 | 1.00  | -1.00 | 1.00  | -1.00 | 1.00  | -1.00 | 1.00  |
| Corr. Tors. dir. 90  | 0.30  | -0.30 | -0.30 | -0.30 | -0.30 | 0.30  | 0.30  | 0.30  | 0.30  | -0.30 | -0.30 | -0.30 | -0.30 | 0.30  | 0.30  |
| Sisma direz. grd 0   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | -1.00 | -1.00 | -1.00 | -1.00 | -1.00 | -1.00 | -1.00 | -1.00 |
| Sisma direz. grd 90  | 0.30  | 0.30  | 0.30  | -0.30 | -0.30 | -0.30 | -0.30 | 0.30  | 0.30  | 0.30  | 0.30  | -0.30 | -0.30 | -0.30 | -0.30 |

COMBINAZIONI CARICHI - S.L.U. - A1

| DESCRIZIONI          | 31   | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    | 44    | 45    |
|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Peso Strutturale     | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Perm.Non Strutturale | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Var.Bibl.Arch.       | 0.80 | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  | 0.80  |
| Var.Neve h<=1000     | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Var.Coperture        | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 0         | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 90        | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 180       | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Vento dir. 270       | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Corr. Tors. dir. 0   | 0.30 | -0.30 | 0.30  | -0.30 | 0.30  | -0.30 | 0.30  | -0.30 | -0.30 | 0.30  | -0.30 | 0.30  | -0.30 | 0.30  | -0.30 |
| Corr. Tors. dir. 90  | 1.00 | 1.00  | -1.00 | -1.00 | -1.00 | -1.00 | 1.00  | 1.00  | 1.00  | 1.00  | -1.00 | -1.00 | -1.00 | -1.00 | 1.00  |
| Sisma direz. grd 0   | 0.30 | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | 0.30  | -0.30 | -0.30 | -0.30 | -0.30 | -0.30 | -0.30 | -0.30 |
| Sisma direz. grd 90  | 1.00 | 1.00  | 1.00  | 1.00  | -1.00 | -1.00 | -1.00 | -1.00 | 1.00  | 1.00  | 1.00  | 1.00  | -1.00 | -1.00 | -1.00 |

COMBINAZIONI CARICHI - S.L.U. - A1

| DESCRIZIONI          | 46   |
|----------------------|------|
| Peso Strutturale     | 1.00 |
| Perm.Non Strutturale | 1.00 |
| Var.Bibl.Arch.       | 0.80 |





COMBINAZIONI FREQUENTI - S.L.E.

| DESCRIZIONI         | 1    | 2    | 3    | 4    | 5    | 6    |
|---------------------|------|------|------|------|------|------|
| Vento dir. 0        | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 |
| Vento dir. 90       | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 |
| Vento dir. 180      | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 |
| Vento dir. 270      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 |
| Corr. Tors. dir. 0  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Corr. Tors. dir. 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sisma direz. grd 0  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sisma direz. grd 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

COMBINAZIONI PERMANENTI - S.L.E.

| DESCRIZIONI          | 1    |
|----------------------|------|
| Peso Strutturale     | 1.00 |
| Perm.Non Strutturale | 1.00 |
| Var.Bibl.Arch.       | 0.80 |
| Var.Neve h<=1000     | 0.00 |
| Var.Coperture        | 0.00 |
| Vento dir. 0         | 0.00 |
| Vento dir. 90        | 0.00 |
| Vento dir. 180       | 0.00 |
| Vento dir. 270       | 0.00 |
| Corr. Tors. dir. 0   | 0.00 |
| Corr. Tors. dir. 90  | 0.00 |
| Sisma direz. grd 0   | 0.00 |
| Sisma direz. grd 90  | 0.00 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 1     | A1/1         | -2.03 | 2     | A1/1         | -4.56 | 3     | A1/1         | -2.18 | 4     | A1/1         | -3.14 |
|       | A1/2         | -2.01 |       | A1/2         | -4.50 |       | A1/2         | -2.17 |       | A1/2         | -3.13 |
|       | A1/3         | -2.03 |       | A1/3         | -4.56 |       | A1/3         | -2.18 |       | A1/3         | -3.14 |
|       | A1/4         | -2.01 |       | A1/4         | -4.50 |       | A1/4         | -2.17 |       | A1/4         | -3.13 |
|       | A1/5         | -1.97 |       | A1/5         | -4.42 |       | A1/5         | -2.14 |       | A1/5         | -3.12 |
|       | A1/6         | -1.98 |       | A1/6         | -4.47 |       | A1/6         | -2.17 |       | A1/6         | -3.14 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/7         | -1.96 |       | A1/7         | -4.41 |       | A1/7         | -2.16 |       | A1/7         | -3.13 |
|       | A1/8         | -1.89 |       | A1/8         | -4.27 |       | A1/8         | -2.12 |       | A1/8         | -3.11 |
|       | A1/9         | -2.03 |       | A1/9         | -4.56 |       | A1/9         | -2.19 |       | A1/9         | -3.14 |
|       | A1/10        | -2.01 |       | A1/10        | -4.50 |       | A1/10        | -2.17 |       | A1/10        | -3.13 |
|       | A1/11        | -1.97 |       | A1/11        | -4.42 |       | A1/11        | -2.14 |       | A1/11        | -3.12 |
|       | A1/12        | -2.08 |       | A1/12        | -4.65 |       | A1/12        | -2.20 |       | A1/12        | -3.15 |
|       | A1/13        | -2.06 |       | A1/13        | -4.60 |       | A1/13        | -2.18 |       | A1/13        | -3.14 |
|       | A1/14        | -2.06 |       | A1/14        | -4.58 |       | A1/14        | -2.16 |       | A1/14        | -3.13 |
| X+    | A1/15        | -1.44 | X+    | A1/15        | -3.21 | X+    | A1/21        | -1.54 | X+    | A1/21        | -2.15 |
| X-    | A1/24        | -1.44 | X-    | A1/24        | -3.21 | X-    | A1/30        | -1.54 | X-    | A1/30        | -2.15 |
| Y+    | A1/31        | -1.45 | Y+    | A1/31        | -3.23 | Y+    | A1/31        | -1.54 | Y+    | A1/31        | -2.15 |
| Y-    | A1/37        | -1.45 | Y-    | A1/37        | -3.23 | Y-    | A1/37        | -1.54 | Y-    | A1/37        | -2.15 |
| 5     | A1/1         | -2.01 | 6     | A1/1         | -2.17 | 7     | A1/1         | -1.08 | 8     | A1/1         | -0.61 |
|       | A1/2         | -1.99 |       | A1/2         | -2.15 |       | A1/2         | -1.08 |       | A1/2         | -0.61 |
|       | A1/3         | -2.01 |       | A1/3         | -2.17 |       | A1/3         | -1.08 |       | A1/3         | -0.61 |
|       | A1/4         | -1.99 |       | A1/4         | -2.15 |       | A1/4         | -1.08 |       | A1/4         | -0.61 |
|       | A1/5         | -1.95 |       | A1/5         | -2.12 |       | A1/5         | -1.07 |       | A1/5         | -0.60 |
|       | A1/6         | -1.96 |       | A1/6         | -2.16 |       | A1/6         | -1.09 |       | A1/6         | -0.62 |
|       | A1/7         | -1.94 |       | A1/7         | -2.14 |       | A1/7         | -1.09 |       | A1/7         | -0.62 |
|       | A1/8         | -1.87 |       | A1/8         | -2.11 |       | A1/8         | -1.09 |       | A1/8         | -0.62 |
|       | A1/9         | -2.01 |       | A1/9         | -2.16 |       | A1/9         | -1.08 |       | A1/9         | -0.61 |
|       | A1/10        | -1.98 |       | A1/10        | -2.15 |       | A1/10        | -1.08 |       | A1/10        | -0.61 |
|       | A1/11        | -1.95 |       | A1/11        | -2.12 |       | A1/11        | -1.07 |       | A1/11        | -0.60 |
|       | A1/12        | -2.06 |       | A1/12        | -2.17 |       | A1/12        | -1.06 |       | A1/12        | -0.60 |
|       | A1/13        | -2.04 |       | A1/13        | -2.16 |       | A1/13        | -1.06 |       | A1/13        | -0.59 |
|       | A1/14        | -2.03 |       | A1/14        | -2.13 |       | A1/14        | -1.05 |       | A1/14        | -0.58 |
| X+    | A1/15        | -1.41 | X+    | A1/15        | -1.52 | X+    | A1/20        | -0.76 | X+    | A1/20        | -0.43 |
| X-    | A1/24        | -1.41 | X-    | A1/24        | -1.52 | X-    | A1/27        | -0.76 | X-    | A1/27        | -0.43 |
| Y+    | A1/40        | -1.41 | Y+    | A1/40        | -1.52 | Y+    | A1/34        | -0.76 | Y+    | A1/41        | -0.43 |
| Y-    | A1/46        | -1.41 | Y-    | A1/46        | -1.52 | Y-    | A1/36        | -0.76 | Y-    | A1/43        | -0.43 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 9     | A1/1         | -0.61 | 11    | A1/1         | -2.96 | 12    | A1/1         | -3.35 | 13    | A1/1         | -3.26 |
|       | A1/2         | -0.61 |       | A1/2         | -2.93 |       | A1/2         | -3.31 |       | A1/2         | -3.24 |
|       | A1/3         | -0.61 |       | A1/3         | -2.96 |       | A1/3         | -3.35 |       | A1/3         | -3.26 |
|       | A1/4         | -0.61 |       | A1/4         | -2.93 |       | A1/4         | -3.31 |       | A1/4         | -3.23 |
|       | A1/5         | -0.60 |       | A1/5         | -2.88 |       | A1/5         | -3.25 |       | A1/5         | -3.19 |
|       | A1/6         | -0.62 |       | A1/6         | -2.89 |       | A1/6         | -3.27 |       | A1/6         | -3.25 |
|       | A1/7         | -0.62 |       | A1/7         | -2.86 |       | A1/7         | -3.23 |       | A1/7         | -3.22 |
|       | A1/8         | -0.62 |       | A1/8         | -2.76 |       | A1/8         | -3.12 |       | A1/8         | -3.17 |
|       | A1/9         | -0.61 |       | A1/9         | -2.97 |       | A1/9         | -3.35 |       | A1/9         | -3.26 |
|       | A1/10        | -0.61 |       | A1/10        | -2.93 |       | A1/10        | -3.31 |       | A1/10        | -3.24 |
|       | A1/11        | -0.61 |       | A1/11        | -2.88 |       | A1/11        | -3.25 |       | A1/11        | -3.20 |
|       | A1/12        | -0.60 |       | A1/12        | -3.04 |       | A1/12        | -3.43 |       | A1/12        | -3.28 |
|       | A1/13        | -0.60 |       | A1/13        | -3.01 |       | A1/13        | -3.39 |       | A1/13        | -3.25 |
|       | A1/14        | -0.59 |       | A1/14        | -3.01 |       | A1/14        | -3.39 |       | A1/14        | -3.23 |
| X+    | A1/20        | -0.43 | X+    | A1/15        | -2.10 | X+    | A1/15        | -2.35 | X+    | A1/21        | -2.30 |
| X-    | A1/27        | -0.43 | X-    | A1/24        | -2.10 | X-    | A1/24        | -2.35 | X-    | A1/30        | -2.30 |
| Y+    | A1/34        | -0.43 | Y+    | A1/31        | -2.12 | Y+    | A1/40        | -2.35 | Y+    | A1/31        | -2.30 |
| Y-    | A1/36        | -0.43 | Y-    | A1/37        | -2.12 | Y-    | A1/46        | -2.35 | Y-    | A1/37        | -2.30 |
| 14    | A1/1         | -2.75 | 15    | A1/1         | -1.30 | 16    | A1/1         | -2.75 | 17    | A1/1         | -3.70 |
|       | A1/2         | -2.74 |       | A1/2         | -1.30 |       | A1/2         | -2.74 |       | A1/2         | -3.67 |
|       | A1/3         | -2.75 |       | A1/3         | -1.30 |       | A1/3         | -2.74 |       | A1/3         | -3.70 |
|       | A1/4         | -2.74 |       | A1/4         | -1.30 |       | A1/4         | -2.73 |       | A1/4         | -3.67 |
|       | A1/5         | -2.72 |       | A1/5         | -1.29 |       | A1/5         | -2.71 |       | A1/5         | -3.62 |
|       | A1/6         | -2.80 |       | A1/6         | -1.32 |       | A1/6         | -2.80 |       | A1/6         | -3.68 |
|       | A1/7         | -2.79 |       | A1/7         | -1.32 |       | A1/7         | -2.78 |       | A1/7         | -3.65 |
|       | A1/8         | -2.80 |       | A1/8         | -1.32 |       | A1/8         | -2.80 |       | A1/8         | -3.60 |
|       | A1/9         | -2.75 |       | A1/9         | -1.30 |       | A1/9         | -2.75 |       | A1/9         | -3.69 |
|       | A1/10        | -2.73 |       | A1/10        | -1.30 |       | A1/10        | -2.74 |       | A1/10        | -3.66 |
|       | A1/11        | -2.71 |       | A1/11        | -1.29 |       | A1/11        | -2.72 |       | A1/11        | -3.62 |
|       | A1/12        | -2.69 |       | A1/12        | -1.28 |       | A1/12        | -2.70 |       | A1/12        | -3.71 |
|       | A1/13        | -2.68 |       | A1/13        | -1.28 |       | A1/13        | -2.68 |       | A1/13        | -3.68 |
|       | A1/14        | -2.62 |       | A1/14        | -1.26 |       | A1/14        | -2.63 |       | A1/14        | -3.64 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| X+    | A1/20        | -1.93 | X+    | A1/20        | -0.92 | X+    | A1/20        | -1.94 | X+    | A1/15        | -2.59 |
| X-    | A1/27        | -1.93 | X-    | A1/27        | -0.92 | X-    | A1/27        | -1.94 | X-    | A1/24        | -2.59 |
| Y+    | A1/41        | -1.94 | Y+    | A1/34        | -0.92 | Y+    | A1/34        | -1.95 | Y+    | A1/40        | -2.59 |
| Y-    | A1/43        | -1.94 | Y-    | A1/36        | -0.92 | Y-    | A1/36        | -1.95 | Y-    | A1/46        | -2.59 |
| 18    | A1/1         | -2.40 | 19    | A1/1         | -4.63 | 20    | A1/1         | -1.75 | 21    | A1/1         | -3.73 |
|       | A1/2         | -2.37 |       | A1/2         | -4.58 |       | A1/2         | -1.73 |       | A1/2         | -3.68 |
|       | A1/3         | -2.39 |       | A1/3         | -4.63 |       | A1/3         | -1.75 |       | A1/3         | -3.73 |
|       | A1/4         | -2.36 |       | A1/4         | -4.57 |       | A1/4         | -1.73 |       | A1/4         | -3.68 |
|       | A1/5         | -2.32 |       | A1/5         | -4.48 |       | A1/5         | -1.69 |       | A1/5         | -3.59 |
|       | A1/6         | -2.32 |       | A1/6         | -4.53 |       | A1/6         | -1.82 |       | A1/6         | -3.80 |
|       | A1/7         | -2.29 |       | A1/7         | -4.47 |       | A1/7         | -1.80 |       | A1/7         | -3.75 |
|       | A1/8         | -2.20 |       | A1/8         | -4.32 |       | A1/8         | -1.82 |       | A1/8         | -3.72 |
|       | A1/9         | -2.40 |       | A1/9         | -4.64 |       | A1/9         | -1.76 |       | A1/9         | -3.74 |
|       | A1/10        | -2.37 |       | A1/10        | -4.58 |       | A1/10        | -1.74 |       | A1/10        | -3.68 |
|       | A1/11        | -2.34 |       | A1/11        | -4.50 |       | A1/11        | -1.71 |       | A1/11        | -3.61 |
|       | A1/12        | -2.48 |       | A1/12        | -4.74 |       | A1/12        | -1.68 |       | A1/12        | -3.66 |
|       | A1/13        | -2.45 |       | A1/13        | -4.69 |       | A1/13        | -1.66 |       | A1/13        | -3.60 |
|       | A1/14        | -2.47 |       | A1/14        | -4.67 |       | A1/14        | -1.58 |       | A1/14        | -3.47 |
| X+    | A1/15        | -1.72 | X+    | A1/15        | -3.28 | X+    | A1/20        | -1.26 | X+    | A1/20        | -2.62 |
| X-    | A1/24        | -1.72 | X-    | A1/24        | -3.28 | X-    | A1/27        | -1.26 | X-    | A1/27        | -2.62 |
| Y+    | A1/31        | -1.74 | Y+    | A1/31        | -3.31 | Y+    | A1/34        | -1.28 | Y+    | A1/34        | -2.65 |
| Y-    | A1/37        | -1.74 | Y-    | A1/37        | -3.31 | Y-    | A1/36        | -1.28 | Y-    | A1/36        | -2.65 |
| 22    | A1/1         | -4.69 | 23    | A1/1         | -5.02 | 24    | A1/1         | -5.50 | 25    | A1/1         | -3.57 |
|       | A1/2         | -4.63 |       | A1/2         | -4.96 |       | A1/2         | -5.43 |       | A1/2         | -3.54 |
|       | A1/3         | -4.68 |       | A1/3         | -5.02 |       | A1/3         | -5.50 |       | A1/3         | -3.56 |
|       | A1/4         | -4.63 |       | A1/4         | -4.96 |       | A1/4         | -5.43 |       | A1/4         | -3.54 |
|       | A1/5         | -4.54 |       | A1/5         | -4.87 |       | A1/5         | -5.33 |       | A1/5         | -3.51 |
|       | A1/6         | -4.58 |       | A1/6         | -4.90 |       | A1/6         | -5.37 |       | A1/6         | -3.53 |
|       | A1/7         | -4.52 |       | A1/7         | -4.84 |       | A1/7         | -5.30 |       | A1/7         | -3.51 |
|       | A1/8         | -4.36 |       | A1/8         | -4.67 |       | A1/8         | -5.12 |       | A1/8         | -3.45 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/9         | -4.69 |       | A1/9         | -5.02 |       | A1/9         | -5.50 |       | A1/9         | -3.57 |
|       | A1/10        | -4.63 |       | A1/10        | -4.96 |       | A1/10        | -5.44 |       | A1/10        | -3.54 |
|       | A1/11        | -4.55 |       | A1/11        | -4.88 |       | A1/11        | -5.34 |       | A1/11        | -3.51 |
|       | A1/12        | -4.80 |       | A1/12        | -5.15 |       | A1/12        | -5.64 |       | A1/12        | -3.60 |
|       | A1/13        | -4.75 |       | A1/13        | -5.09 |       | A1/13        | -5.58 |       | A1/13        | -3.58 |
|       | A1/14        | -4.74 |       | A1/14        | -5.09 |       | A1/14        | -5.58 |       | A1/14        | -3.57 |
| X+    | A1/15        | -3.32 | X+    | A1/15        | -3.56 | X+    | A1/15        | -3.89 | X+    | A1/21        | -2.49 |
| X-    | A1/24        | -3.32 | X-    | A1/24        | -3.56 | X-    | A1/24        | -3.89 | X-    | A1/30        | -2.49 |
| Y+    | A1/31        | -3.36 | Y+    | A1/31        | -3.59 | Y+    | A1/31        | -3.93 | Y+    | A1/31        | -2.51 |
| Y-    | A1/37        | -3.36 | Y-    | A1/37        | -3.59 | Y-    | A1/37        | -3.93 | Y-    | A1/37        | -2.51 |
| 26    | A1/1         | -3.40 | 27    | A1/1         | -3.89 | 28    | A1/1         | -5.13 | 29    | A1/1         | -1.55 |
|       | A1/2         | -3.38 |       | A1/2         | -3.87 |       | A1/2         | -5.10 |       | A1/2         | -1.56 |
|       | A1/3         | -3.40 |       | A1/3         | -3.89 |       | A1/3         | -5.13 |       | A1/3         | -1.55 |
|       | A1/4         | -3.38 |       | A1/4         | -3.87 |       | A1/4         | -5.09 |       | A1/4         | -1.56 |
|       | A1/5         | -3.35 |       | A1/5         | -3.83 |       | A1/5         | -5.04 |       | A1/5         | -1.57 |
|       | A1/6         | -3.37 |       | A1/6         | -3.86 |       | A1/6         | -5.10 |       | A1/6         | -1.55 |
|       | A1/7         | -3.36 |       | A1/7         | -3.84 |       | A1/7         | -5.07 |       | A1/7         | -1.56 |
|       | A1/8         | -3.31 |       | A1/8         | -3.79 |       | A1/8         | -4.99 |       | A1/8         | -1.58 |
|       | A1/9         | -3.40 |       | A1/9         | -3.89 |       | A1/9         | -5.14 |       | A1/9         | -1.54 |
|       | A1/10        | -3.38 |       | A1/10        | -3.87 |       | A1/10        | -5.10 |       | A1/10        | -1.55 |
|       | A1/11        | -3.36 |       | A1/11        | -3.84 |       | A1/11        | -5.05 |       | A1/11        | -1.57 |
|       | A1/12        | -3.43 |       | A1/12        | -3.92 |       | A1/12        | -5.17 |       | A1/12        | -1.54 |
|       | A1/13        | -3.41 |       | A1/13        | -3.90 |       | A1/13        | -5.13 |       | A1/13        | -1.55 |
|       | A1/14        | -3.40 |       | A1/14        | -3.88 |       | A1/14        | -5.10 |       | A1/14        | -1.57 |
| X+    | A1/21        | -2.37 | X+    | A1/21        | -2.71 | X+    | A1/21        | -3.60 | X+    | A1/21        | -1.05 |
| X-    | A1/30        | -2.37 | X-    | A1/30        | -2.71 | X-    | A1/30        | -3.60 | X-    | A1/30        | -1.05 |
| Y+    | A1/31        | -2.38 | Y+    | A1/31        | -2.72 | Y+    | A1/31        | -3.61 | Y+    | A1/40        | -1.05 |
| Y-    | A1/37        | -2.38 | Y-    | A1/37        | -2.72 | Y-    | A1/37        | -3.61 | Y-    | A1/46        | -1.05 |
| 30    | A1/1         | -1.65 | 31    | A1/1         | -2.19 | 32    | A1/1         | -3.14 | 33    | A1/1         | -3.35 |
|       | A1/2         | -1.66 |       | A1/2         | -2.19 |       | A1/2         | -3.13 |       | A1/2         | -3.33 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/3         | -1.65 |       | A1/3         | -2.19 |       | A1/3         | -3.14 |       | A1/3         | -3.35 |
|       | A1/4         | -1.66 |       | A1/4         | -2.19 |       | A1/4         | -3.13 |       | A1/4         | -3.32 |
|       | A1/5         | -1.68 |       | A1/5         | -2.19 |       | A1/5         | -3.11 |       | A1/5         | -3.29 |
|       | A1/6         | -1.66 |       | A1/6         | -2.21 |       | A1/6         | -3.19 |       | A1/6         | -3.37 |
|       | A1/7         | -1.67 |       | A1/7         | -2.21 |       | A1/7         | -3.18 |       | A1/7         | -3.35 |
|       | A1/8         | -1.69 |       | A1/8         | -2.23 |       | A1/8         | -3.19 |       | A1/8         | -3.33 |
|       | A1/9         | -1.65 |       | A1/9         | -2.19 |       | A1/9         | -3.15 |       | A1/9         | -3.35 |
|       | A1/10        | -1.66 |       | A1/10        | -2.19 |       | A1/10        | -3.14 |       | A1/10        | -3.33 |
|       | A1/11        | -1.67 |       | A1/11        | -2.19 |       | A1/11        | -3.12 |       | A1/11        | -3.29 |
|       | A1/12        | -1.64 |       | A1/12        | -2.17 |       | A1/12        | -3.09 |       | A1/12        | -3.33 |
|       | A1/13        | -1.65 |       | A1/13        | -2.17 |       | A1/13        | -3.08 |       | A1/13        | -3.30 |
|       | A1/14        | -1.66 |       | A1/14        | -2.15 |       | A1/14        | -3.04 |       | A1/14        | -3.25 |
| X+    | A1/20        | -1.13 | X+    | A1/20        | -1.52 | X+    | A1/20        | -2.20 | X+    | A1/18        | -2.33 |
| X-    | A1/27        | -1.13 | X-    | A1/27        | -1.52 | X-    | A1/27        | -2.20 | X-    | A1/25        | -2.33 |
| Y+    | A1/41        | -1.13 | Y+    | A1/34        | -1.52 | Y+    | A1/34        | -2.21 | Y+    | A1/34        | -2.34 |
| Y-    | A1/43        | -1.13 | Y-    | A1/36        | -1.52 | Y-    | A1/36        | -2.21 | Y-    | A1/36        | -2.34 |
| 34    | A1/1         | -3.29 | 35    | A1/1         | -3.43 | 36    | A1/1         | -3.68 | 37    | A1/1         | -3.60 |
|       | A1/2         | -3.27 |       | A1/2         | -3.41 |       | A1/2         | -3.65 |       | A1/2         | -3.55 |
|       | A1/3         | -3.29 |       | A1/3         | -3.43 |       | A1/3         | -3.67 |       | A1/3         | -3.59 |
|       | A1/4         | -3.27 |       | A1/4         | -3.40 |       | A1/4         | -3.65 |       | A1/4         | -3.54 |
|       | A1/5         | -3.23 |       | A1/5         | -3.37 |       | A1/5         | -3.60 |       | A1/5         | -3.47 |
|       | A1/6         | -3.31 |       | A1/6         | -3.45 |       | A1/6         | -3.71 |       | A1/6         | -3.67 |
|       | A1/7         | -3.28 |       | A1/7         | -3.43 |       | A1/7         | -3.68 |       | A1/7         | -3.61 |
|       | A1/8         | -3.26 |       | A1/8         | -3.40 |       | A1/8         | -3.66 |       | A1/8         | -3.58 |
|       | A1/9         | -3.29 |       | A1/9         | -3.43 |       | A1/9         | -3.68 |       | A1/9         | -3.60 |
|       | A1/10        | -3.27 |       | A1/10        | -3.41 |       | A1/10        | -3.65 |       | A1/10        | -3.55 |
|       | A1/11        | -3.23 |       | A1/11        | -3.37 |       | A1/11        | -3.61 |       | A1/11        | -3.47 |
|       | A1/12        | -3.27 |       | A1/12        | -3.41 |       | A1/12        | -3.64 |       | A1/12        | -3.52 |
|       | A1/13        | -3.25 |       | A1/13        | -3.39 |       | A1/13        | -3.61 |       | A1/13        | -3.47 |
|       | A1/14        | -3.20 |       | A1/14        | -3.33 |       | A1/14        | -3.55 |       | A1/14        | -3.35 |
| X+    | A1/18        | -2.28 | X+    | A1/18        | -2.38 | X+    | A1/20        | -2.56 | X+    | A1/20        | -2.53 |
| X-    | A1/25        | -2.28 | X-    | A1/25        | -2.38 | X-    | A1/27        | -2.56 | X-    | A1/27        | -2.53 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |  |    |       |       |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|--|----|-------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |  |    |       |       |
|       | Y+           | A1/34 | -2.29 |              | Y+    | A1/34 | -2.39        |       | Y+    | A1/34        | -2.57 |  | Y+ | A1/34 | -2.56 |
|       | Y-           | A1/36 | -2.29 |              | Y-    | A1/36 | -2.39        |       | Y-    | A1/36        | -2.57 |  | Y- | A1/36 | -2.56 |
| 38    | A1/1         | -3.60 | 39    | A1/1         | -3.70 | 40    | A1/1         | -3.21 | 41    | A1/1         | -3.13 |  |    |       |       |
|       | A1/2         | -3.55 |       | A1/2         | -3.64 |       | A1/2         | -3.19 |       | A1/2         | -3.08 |  |    |       |       |
|       | A1/3         | -3.60 |       | A1/3         | -3.69 |       | A1/3         | -3.21 |       | A1/3         | -3.13 |  |    |       |       |
|       | A1/4         | -3.55 |       | A1/4         | -3.64 |       | A1/4         | -3.19 |       | A1/4         | -3.08 |  |    |       |       |
|       | A1/5         | -3.47 |       | A1/5         | -3.56 |       | A1/5         | -3.15 |       | A1/5         | -3.01 |  |    |       |       |
|       | A1/6         | -3.67 |       | A1/6         | -3.75 |       | A1/6         | -3.25 |       | A1/6         | -3.17 |  |    |       |       |
|       | A1/7         | -3.61 |       | A1/7         | -3.70 |       | A1/7         | -3.23 |       | A1/7         | -3.12 |  |    |       |       |
|       | A1/8         | -3.58 |       | A1/8         | -3.66 |       | A1/8         | -3.21 |       | A1/8         | -3.08 |  |    |       |       |
|       | A1/9         | -3.60 |       | A1/9         | -3.70 |       | A1/9         | -3.21 |       | A1/9         | -3.13 |  |    |       |       |
|       | A1/10        | -3.55 |       | A1/10        | -3.64 |       | A1/10        | -3.19 |       | A1/10        | -3.08 |  |    |       |       |
|       | A1/11        | -3.48 |       | A1/11        | -3.56 |       | A1/11        | -3.15 |       | A1/11        | -3.01 |  |    |       |       |
|       | A1/12        | -3.53 |       | A1/12        | -3.63 |       | A1/12        | -3.17 |       | A1/12        | -3.09 |  |    |       |       |
|       | A1/13        | -3.48 |       | A1/13        | -3.58 |       | A1/13        | -3.15 |       | A1/13        | -3.04 |  |    |       |       |
|       | A1/14        | -3.36 |       | A1/14        | -3.46 |       | A1/14        | -3.08 |       | A1/14        | -2.94 |  |    |       |       |
|       | X+           | A1/20 | -2.53 |              | X+    | A1/20 | -2.58        |       | X+    | A1/20        | -2.24 |  | X+ | A1/20 | -2.18 |
|       | X-           | A1/27 | -2.53 |              | X-    | A1/27 | -2.58        |       | X-    | A1/27        | -2.24 |  | X- | A1/27 | -2.18 |
|       | Y+           | A1/34 | -2.55 |              | Y+    | A1/34 | -2.61        |       | Y+    | A1/34        | -2.26 |  | Y+ | A1/34 | -2.20 |
|       | Y-           | A1/36 | -2.55 |              | Y-    | A1/36 | -2.61        |       | Y-    | A1/36        | -2.26 |  | Y- | A1/36 | -2.20 |
| 42    | A1/1         | -1.41 | 43    | A1/1         | -1.35 | 44    | A1/1         | -1.31 | 45    | A1/1         | -1.16 |  |    |       |       |
|       | A1/2         | -1.41 |       | A1/2         | -1.35 |       | A1/2         | -1.31 |       | A1/2         | -1.16 |  |    |       |       |
|       | A1/3         | -1.41 |       | A1/3         | -1.35 |       | A1/3         | -1.31 |       | A1/3         | -1.16 |  |    |       |       |
|       | A1/4         | -1.40 |       | A1/4         | -1.34 |       | A1/4         | -1.31 |       | A1/4         | -1.16 |  |    |       |       |
|       | A1/5         | -1.40 |       | A1/5         | -1.34 |       | A1/5         | -1.30 |       | A1/5         | -1.15 |  |    |       |       |
|       | A1/6         | -1.43 |       | A1/6         | -1.37 |       | A1/6         | -1.33 |       | A1/6         | -1.19 |  |    |       |       |
|       | A1/7         | -1.43 |       | A1/7         | -1.36 |       | A1/7         | -1.33 |       | A1/7         | -1.18 |  |    |       |       |
|       | A1/8         | -1.43 |       | A1/8         | -1.37 |       | A1/8         | -1.33 |       | A1/8         | -1.19 |  |    |       |       |
|       | A1/9         | -1.41 |       | A1/9         | -1.35 |       | A1/9         | -1.31 |       | A1/9         | -1.17 |  |    |       |       |
|       | A1/10        | -1.41 |       | A1/10        | -1.35 |       | A1/10        | -1.31 |       | A1/10        | -1.16 |  |    |       |       |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/11        | -1.40 |       | A1/11        | -1.34 |       | A1/11        | -1.31 |       | A1/11        | -1.15 |
|       | A1/12        | -1.39 |       | A1/12        | -1.33 |       | A1/12        | -1.29 |       | A1/12        | -1.14 |
|       | A1/13        | -1.38 |       | A1/13        | -1.33 |       | A1/13        | -1.29 |       | A1/13        | -1.13 |
|       | A1/14        | -1.36 |       | A1/14        | -1.31 |       | A1/14        | -1.27 |       | A1/14        | -1.11 |
| X+    | A1/20        | -0.99 | X+    | A1/20        | -0.95 | X+    | A1/20        | -0.92 | X+    | A1/20        | -0.82 |
| X-    | A1/27        | -0.99 | X-    | A1/27        | -0.95 | X-    | A1/27        | -0.92 | X-    | A1/27        | -0.82 |
| Y+    | A1/34        | -1.00 | Y+    | A1/34        | -0.95 | Y+    | A1/34        | -0.93 | Y+    | A1/34        | -0.82 |
| Y-    | A1/36        | -1.00 | Y-    | A1/36        | -0.95 | Y-    | A1/36        | -0.93 | Y-    | A1/36        | -0.82 |
| 46    | A1/1         | -2.25 | 47    | A1/1         | -2.17 | 48    | A1/1         | -2.17 | 49    | A1/1         | -2.19 |
|       | A1/2         | -2.24 |       | A1/2         | -2.17 |       | A1/2         | -2.16 |       | A1/2         | -2.18 |
|       | A1/3         | -2.25 |       | A1/3         | -2.17 |       | A1/3         | -2.17 |       | A1/3         | -2.19 |
|       | A1/4         | -2.24 |       | A1/4         | -2.17 |       | A1/4         | -2.16 |       | A1/4         | -2.18 |
|       | A1/5         | -2.23 |       | A1/5         | -2.16 |       | A1/5         | -2.15 |       | A1/5         | -2.17 |
|       | A1/6         | -2.30 |       | A1/6         | -2.22 |       | A1/6         | -2.21 |       | A1/6         | -2.23 |
|       | A1/7         | -2.29 |       | A1/7         | -2.21 |       | A1/7         | -2.20 |       | A1/7         | -2.22 |
|       | A1/8         | -2.31 |       | A1/8         | -2.23 |       | A1/8         | -2.22 |       | A1/8         | -2.24 |
|       | A1/9         | -2.25 |       | A1/9         | -2.18 |       | A1/9         | -2.17 |       | A1/9         | -2.19 |
|       | A1/10        | -2.24 |       | A1/10        | -2.17 |       | A1/10        | -2.16 |       | A1/10        | -2.18 |
|       | A1/11        | -2.23 |       | A1/11        | -2.16 |       | A1/11        | -2.16 |       | A1/11        | -2.17 |
|       | A1/12        | -2.20 |       | A1/12        | -2.13 |       | A1/12        | -2.12 |       | A1/12        | -2.14 |
|       | A1/13        | -2.19 |       | A1/13        | -2.12 |       | A1/13        | -2.12 |       | A1/13        | -2.13 |
|       | A1/14        | -2.15 |       | A1/14        | -2.08 |       | A1/14        | -2.08 |       | A1/14        | -2.10 |
| X+    | A1/20        | -1.58 | X+    | A1/20        | -1.53 | X+    | A1/20        | -1.52 | X+    | A1/20        | -1.53 |
| X-    | A1/27        | -1.58 | X-    | A1/27        | -1.53 | X-    | A1/27        | -1.52 | X-    | A1/27        | -1.53 |
| Y+    | A1/34        | -1.59 | Y+    | A1/34        | -1.53 | Y+    | A1/34        | -1.52 | Y+    | A1/34        | -1.53 |
| Y-    | A1/36        | -1.59 | Y-    | A1/36        | -1.53 | Y-    | A1/36        | -1.52 | Y-    | A1/36        | -1.53 |
| 50    | A1/1         | -2.48 | 51    | A1/1         | -2.41 | 52    | A1/1         | -2.45 | 53    | A1/1         | -2.50 |
|       | A1/2         | -2.47 |       | A1/2         | -2.40 |       | A1/2         | -2.43 |       | A1/2         | -2.48 |
|       | A1/3         | -2.48 |       | A1/3         | -2.41 |       | A1/3         | -2.45 |       | A1/3         | -2.50 |
|       | A1/4         | -2.47 |       | A1/4         | -2.40 |       | A1/4         | -2.43 |       | A1/4         | -2.48 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/5         | -2.44 |       | A1/5         | -2.37 |       | A1/5         | -2.40 |       | A1/5         | -2.45 |
|       | A1/6         | -2.51 |       | A1/6         | -2.44 |       | A1/6         | -2.47 |       | A1/6         | -2.53 |
|       | A1/7         | -2.49 |       | A1/7         | -2.42 |       | A1/7         | -2.45 |       | A1/7         | -2.51 |
|       | A1/8         | -2.48 |       | A1/8         | -2.41 |       | A1/8         | -2.44 |       | A1/8         | -2.50 |
|       | A1/9         | -2.49 |       | A1/9         | -2.42 |       | A1/9         | -2.45 |       | A1/9         | -2.50 |
|       | A1/10        | -2.47 |       | A1/10        | -2.40 |       | A1/10        | -2.43 |       | A1/10        | -2.48 |
|       | A1/11        | -2.44 |       | A1/11        | -2.37 |       | A1/11        | -2.40 |       | A1/11        | -2.45 |
|       | A1/12        | -2.46 |       | A1/12        | -2.39 |       | A1/12        | -2.42 |       | A1/12        | -2.48 |
|       | A1/13        | -2.44 |       | A1/13        | -2.37 |       | A1/13        | -2.40 |       | A1/13        | -2.46 |
|       | A1/14        | -2.39 |       | A1/14        | -2.33 |       | A1/14        | -2.36 |       | A1/14        | -2.41 |
| X+    | A1/20        | -1.73 | X+    | A1/20        | -1.68 | X+    | A1/20        | -1.70 | X+    | A1/20        | -1.74 |
| X-    | A1/27        | -1.73 | X-    | A1/27        | -1.68 | X-    | A1/27        | -1.70 | X-    | A1/27        | -1.74 |
| Y+    | A1/34        | -1.74 | Y+    | A1/34        | -1.69 | Y+    | A1/34        | -1.71 | Y+    | A1/34        | -1.74 |
| Y-    | A1/36        | -1.74 | Y-    | A1/36        | -1.69 | Y-    | A1/36        | -1.71 | Y-    | A1/36        | -1.74 |
| 54    | A1/1         | -2.02 | 55    | A1/1         | -3.83 | 56    | A1/1         | -3.72 | 57    | A1/1         | -3.77 |
|       | A1/2         | -1.99 |       | A1/2         | -3.78 |       | A1/2         | -3.68 |       | A1/2         | -3.72 |
|       | A1/3         | -2.02 |       | A1/3         | -3.83 |       | A1/3         | -3.72 |       | A1/3         | -3.77 |
|       | A1/4         | -1.99 |       | A1/4         | -3.78 |       | A1/4         | -3.68 |       | A1/4         | -3.72 |
|       | A1/5         | -1.95 |       | A1/5         | -3.71 |       | A1/5         | -3.60 |       | A1/5         | -3.65 |
|       | A1/6         | -2.04 |       | A1/6         | -3.86 |       | A1/6         | -3.74 |       | A1/6         | -3.79 |
|       | A1/7         | -2.01 |       | A1/7         | -3.81 |       | A1/7         | -3.70 |       | A1/7         | -3.74 |
|       | A1/8         | -1.98 |       | A1/8         | -3.75 |       | A1/8         | -3.64 |       | A1/8         | -3.69 |
|       | A1/9         | -2.02 |       | A1/9         | -3.83 |       | A1/9         | -3.72 |       | A1/9         | -3.77 |
|       | A1/10        | -1.99 |       | A1/10        | -3.78 |       | A1/10        | -3.68 |       | A1/10        | -3.72 |
|       | A1/11        | -1.95 |       | A1/11        | -3.71 |       | A1/11        | -3.61 |       | A1/11        | -3.65 |
|       | A1/12        | -2.00 |       | A1/12        | -3.80 |       | A1/12        | -3.70 |       | A1/12        | -3.75 |
|       | A1/13        | -1.97 |       | A1/13        | -3.75 |       | A1/13        | -3.65 |       | A1/13        | -3.70 |
|       | A1/14        | -1.91 |       | A1/14        | -3.66 |       | A1/14        | -3.57 |       | A1/14        | -3.61 |
| X+    | A1/18        | -1.41 | X+    | A1/18        | -2.67 | X+    | A1/18        | -2.59 | X+    | A1/18        | -2.62 |
| X-    | A1/25        | -1.41 | X-    | A1/25        | -2.67 | X-    | A1/25        | -2.59 | X-    | A1/25        | -2.62 |
| Y+    | A1/34        | -1.42 | Y+    | A1/34        | -2.68 | Y+    | A1/34        | -2.60 | Y+    | A1/34        | -2.62 |
| Y-    | A1/36        | -1.42 | Y-    | A1/36        | -2.68 | Y-    | A1/36        | -2.60 | Y-    | A1/36        | -2.62 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 58    | A1/1         | -3.87 | 59    | A1/1         | -2.37 | 60    | A1/1         | -2.35 | 61    | A1/1         | -2.42 |
|       | A1/2         | -3.81 |       | A1/2         | -2.33 |       | A1/2         | -2.31 |       | A1/2         | -2.38 |
|       | A1/3         | -3.86 |       | A1/3         | -2.37 |       | A1/3         | -2.35 |       | A1/3         | -2.42 |
|       | A1/4         | -3.81 |       | A1/4         | -2.33 |       | A1/4         | -2.31 |       | A1/4         | -2.38 |
|       | A1/5         | -3.73 |       | A1/5         | -2.28 |       | A1/5         | -2.26 |       | A1/5         | -2.33 |
|       | A1/6         | -3.89 |       | A1/6         | -2.40 |       | A1/6         | -2.38 |       | A1/6         | -2.45 |
|       | A1/7         | -3.84 |       | A1/7         | -2.37 |       | A1/7         | -2.34 |       | A1/7         | -2.41 |
|       | A1/8         | -3.78 |       | A1/8         | -2.34 |       | A1/8         | -2.31 |       | A1/8         | -2.38 |
|       | A1/9         | -3.87 |       | A1/9         | -2.37 |       | A1/9         | -2.35 |       | A1/9         | -2.42 |
|       | A1/10        | -3.81 |       | A1/10        | -2.33 |       | A1/10        | -2.31 |       | A1/10        | -2.38 |
|       | A1/11        | -3.73 |       | A1/11        | -2.28 |       | A1/11        | -2.26 |       | A1/11        | -2.33 |
|       | A1/12        | -3.84 |       | A1/12        | -2.33 |       | A1/12        | -2.32 |       | A1/12        | -2.39 |
|       | A1/13        | -3.78 |       | A1/13        | -2.30 |       | A1/13        | -2.28 |       | A1/13        | -2.35 |
|       | A1/14        | -3.68 |       | A1/14        | -2.22 |       | A1/14        | -2.21 |       | A1/14        | -2.27 |
| X+    | A1/18        | -2.68 | X+    | A1/20        | -1.65 | X+    | A1/20        | -1.64 | X+    | A1/20        | -1.68 |
| X-    | A1/25        | -2.68 | X-    | A1/27        | -1.65 | X-    | A1/27        | -1.64 | X-    | A1/27        | -1.68 |
| Y+    | A1/34        | -2.68 | Y+    | A1/34        | -1.67 | Y+    | A1/34        | -1.65 | Y+    | A1/34        | -1.69 |
| Y-    | A1/36        | -2.68 | Y-    | A1/36        | -1.67 | Y-    | A1/36        | -1.65 | Y-    | A1/36        | -1.69 |
| 62    | A1/1         | -2.54 | 63    | A1/1         | -1.31 | 64    | A1/1         | -1.35 | 65    | A1/1         | -1.41 |
|       | A1/2         | -2.50 |       | A1/2         | -1.31 |       | A1/2         | -1.34 |       | A1/2         | -1.40 |
|       | A1/3         | -2.54 |       | A1/3         | -1.31 |       | A1/3         | -1.35 |       | A1/3         | -1.41 |
|       | A1/4         | -2.50 |       | A1/4         | -1.31 |       | A1/4         | -1.34 |       | A1/4         | -1.40 |
|       | A1/5         | -2.44 |       | A1/5         | -1.30 |       | A1/5         | -1.34 |       | A1/5         | -1.40 |
|       | A1/6         | -2.57 |       | A1/6         | -1.33 |       | A1/6         | -1.37 |       | A1/6         | -1.43 |
|       | A1/7         | -2.53 |       | A1/7         | -1.33 |       | A1/7         | -1.36 |       | A1/7         | -1.43 |
|       | A1/8         | -2.48 |       | A1/8         | -1.33 |       | A1/8         | -1.37 |       | A1/8         | -1.43 |
|       | A1/9         | -2.54 |       | A1/9         | -1.31 |       | A1/9         | -1.35 |       | A1/9         | -1.41 |
|       | A1/10        | -2.50 |       | A1/10        | -1.31 |       | A1/10        | -1.34 |       | A1/10        | -1.40 |
|       | A1/11        | -2.44 |       | A1/11        | -1.30 |       | A1/11        | -1.33 |       | A1/11        | -1.39 |
|       | A1/12        | -2.51 |       | A1/12        | -1.29 |       | A1/12        | -1.32 |       | A1/12        | -1.38 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/13        | -2.47 |       | A1/13        | -1.29 |       | A1/13        | -1.32 |       | A1/13        | -1.38 |
|       | A1/14        | -2.39 |       | A1/14        | -1.27 |       | A1/14        | -1.30 |       | A1/14        | -1.35 |
| X+    | A1/20        | -1.76 | X+    | A1/20        | -0.92 | X+    | A1/20        | -0.95 | X+    | A1/20        | -0.99 |
| X-    | A1/27        | -1.76 | X-    | A1/27        | -0.92 | X-    | A1/27        | -0.95 | X-    | A1/27        | -0.99 |
| Y+    | A1/34        | -1.76 | Y+    | A1/41        | -0.92 | Y+    | A1/41        | -0.95 | Y+    | A1/41        | -0.99 |
| Y-    | A1/36        | -1.76 | Y-    | A1/43        | -0.92 | Y-    | A1/43        | -0.95 | Y-    | A1/43        | -0.99 |
| 66    | A1/1         | -2.20 | 67    | A1/1         | -2.24 | 68    | A1/1         | -2.34 | 69    | A1/1         | -2.28 |
|       | A1/2         | -2.19 |       | A1/2         | -2.23 |       | A1/2         | -2.34 |       | A1/2         | -2.27 |
|       | A1/3         | -2.20 |       | A1/3         | -2.24 |       | A1/3         | -2.35 |       | A1/3         | -2.29 |
|       | A1/4         | -2.19 |       | A1/4         | -2.23 |       | A1/4         | -2.34 |       | A1/4         | -2.28 |
|       | A1/5         | -2.18 |       | A1/5         | -2.22 |       | A1/5         | -2.33 |       | A1/5         | -2.26 |
|       | A1/6         | -2.24 |       | A1/6         | -2.28 |       | A1/6         | -2.40 |       | A1/6         | -2.33 |
|       | A1/7         | -2.23 |       | A1/7         | -2.28 |       | A1/7         | -2.39 |       | A1/7         | -2.32 |
|       | A1/8         | -2.26 |       | A1/8         | -2.30 |       | A1/8         | -2.41 |       | A1/8         | -2.34 |
|       | A1/9         | -2.19 |       | A1/9         | -2.23 |       | A1/9         | -2.34 |       | A1/9         | -2.28 |
|       | A1/10        | -2.19 |       | A1/10        | -2.23 |       | A1/10        | -2.33 |       | A1/10        | -2.27 |
|       | A1/11        | -2.18 |       | A1/11        | -2.22 |       | A1/11        | -2.32 |       | A1/11        | -2.26 |
|       | A1/12        | -2.15 |       | A1/12        | -2.19 |       | A1/12        | -2.29 |       | A1/12        | -2.23 |
|       | A1/13        | -2.14 |       | A1/13        | -2.18 |       | A1/13        | -2.28 |       | A1/13        | -2.22 |
|       | A1/14        | -2.10 |       | A1/14        | -2.14 |       | A1/14        | -2.23 |       | A1/14        | -2.17 |
| X+    | A1/20        | -1.54 | X+    | A1/20        | -1.56 | X+    | A1/20        | -1.64 | X+    | A1/20        | -1.59 |
| X-    | A1/27        | -1.54 | X-    | A1/27        | -1.56 | X-    | A1/27        | -1.64 | X-    | A1/27        | -1.60 |
| Y+    | A1/41        | -1.54 | Y+    | A1/41        | -1.57 | Y+    | A1/41        | -1.64 | Y+    | A1/41        | -1.60 |
| Y-    | A1/43        | -1.54 | Y-    | A1/43        | -1.57 | Y-    | A1/43        | -1.64 | Y-    | A1/43        | -1.60 |
| 70    | A1/1         | -2.48 | 71    | A1/1         | -2.48 | 72    | A1/1         | -2.56 | 73    | A1/1         | -2.52 |
|       | A1/2         | -2.47 |       | A1/2         | -2.46 |       | A1/2         | -2.54 |       | A1/2         | -2.50 |
|       | A1/3         | -2.48 |       | A1/3         | -2.48 |       | A1/3         | -2.56 |       | A1/3         | -2.52 |
|       | A1/4         | -2.47 |       | A1/4         | -2.46 |       | A1/4         | -2.54 |       | A1/4         | -2.50 |
|       | A1/5         | -2.44 |       | A1/5         | -2.43 |       | A1/5         | -2.51 |       | A1/5         | -2.47 |
|       | A1/6         | -2.51 |       | A1/6         | -2.50 |       | A1/6         | -2.59 |       | A1/6         | -2.55 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/7         | -2.49 |       | A1/7         | -2.48 |       | A1/7         | -2.56 |       | A1/7         | -2.53 |
|       | A1/8         | -2.48 |       | A1/8         | -2.47 |       | A1/8         | -2.55 |       | A1/8         | -2.51 |
|       | A1/9         | -2.48 |       | A1/9         | -2.48 |       | A1/9         | -2.56 |       | A1/9         | -2.52 |
|       | A1/10        | -2.47 |       | A1/10        | -2.46 |       | A1/10        | -2.54 |       | A1/10        | -2.50 |
|       | A1/11        | -2.44 |       | A1/11        | -2.43 |       | A1/11        | -2.51 |       | A1/11        | -2.47 |
|       | A1/12        | -2.46 |       | A1/12        | -2.45 |       | A1/12        | -2.53 |       | A1/12        | -2.49 |
|       | A1/13        | -2.44 |       | A1/13        | -2.44 |       | A1/13        | -2.51 |       | A1/13        | -2.47 |
|       | A1/14        | -2.39 |       | A1/14        | -2.39 |       | A1/14        | -2.46 |       | A1/14        | -2.42 |
| X+    | A1/20        | -1.72 | X+    | A1/20        | -1.72 | X+    | A1/20        | -1.77 | X+    | A1/20        | -1.75 |
| X-    | A1/27        | -1.72 | X-    | A1/27        | -1.72 | X-    | A1/27        | -1.77 | X-    | A1/27        | -1.75 |
| Y+    | A1/41        | -1.73 | Y+    | A1/41        | -1.72 | Y+    | A1/41        | -1.77 | Y+    | A1/41        | -1.75 |
| Y-    | A1/43        | -1.73 | Y-    | A1/43        | -1.72 | Y-    | A1/43        | -1.77 | Y-    | A1/43        | -1.75 |
| 74    | A1/1         | -3.75 | 75    | A1/1         | -3.68 | 76    | A1/1         | -3.75 | 77    | A1/1         | -3.83 |
|       | A1/2         | -3.70 |       | A1/2         | -3.63 |       | A1/2         | -3.70 |       | A1/2         | -3.77 |
|       | A1/3         | -3.75 |       | A1/3         | -3.68 |       | A1/3         | -3.75 |       | A1/3         | -3.83 |
|       | A1/4         | -3.70 |       | A1/4         | -3.63 |       | A1/4         | -3.70 |       | A1/4         | -3.77 |
|       | A1/5         | -3.63 |       | A1/5         | -3.56 |       | A1/5         | -3.63 |       | A1/5         | -3.69 |
|       | A1/6         | -3.77 |       | A1/6         | -3.70 |       | A1/6         | -3.78 |       | A1/6         | -3.86 |
|       | A1/7         | -3.72 |       | A1/7         | -3.65 |       | A1/7         | -3.73 |       | A1/7         | -3.80 |
|       | A1/8         | -3.66 |       | A1/8         | -3.59 |       | A1/8         | -3.67 |       | A1/8         | -3.74 |
|       | A1/9         | -3.75 |       | A1/9         | -3.68 |       | A1/9         | -3.75 |       | A1/9         | -3.83 |
|       | A1/10        | -3.70 |       | A1/10        | -3.63 |       | A1/10        | -3.70 |       | A1/10        | -3.77 |
|       | A1/11        | -3.62 |       | A1/11        | -3.56 |       | A1/11        | -3.63 |       | A1/11        | -3.69 |
|       | A1/12        | -3.73 |       | A1/12        | -3.66 |       | A1/12        | -3.73 |       | A1/12        | -3.80 |
|       | A1/13        | -3.68 |       | A1/13        | -3.61 |       | A1/13        | -3.68 |       | A1/13        | -3.75 |
|       | A1/14        | -3.59 |       | A1/14        | -3.52 |       | A1/14        | -3.59 |       | A1/14        | -3.65 |
| X+    | A1/18        | -2.60 | X+    | A1/18        | -2.54 | X+    | A1/15        | -2.59 | X+    | A1/15        | -2.64 |
| X-    | A1/25        | -2.60 | X-    | A1/25        | -2.54 | X-    | A1/24        | -2.59 | X-    | A1/24        | -2.64 |
| Y+    | A1/34        | -2.60 | Y+    | A1/34        | -2.55 | Y+    | A1/40        | -2.59 | Y+    | A1/40        | -2.64 |
| Y-    | A1/36        | -2.60 | Y-    | A1/36        | -2.55 | Y-    | A1/46        | -2.59 | Y-    | A1/46        | -2.64 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 78    | A1/1         | -2.44 | 79    | A1/1         | -2.38 | 80    | A1/1         | -2.43 | 81    | A1/1         | -1.98 |
|       | A1/2         | -2.40 |       | A1/2         | -2.35 |       | A1/2         | -2.39 |       | A1/2         | -1.95 |
|       | A1/3         | -2.44 |       | A1/3         | -2.38 |       | A1/3         | -2.43 |       | A1/3         | -1.98 |
|       | A1/4         | -2.40 |       | A1/4         | -2.35 |       | A1/4         | -2.39 |       | A1/4         | -1.95 |
|       | A1/5         | -2.34 |       | A1/5         | -2.29 |       | A1/5         | -2.33 |       | A1/5         | -1.90 |
|       | A1/6         | -2.47 |       | A1/6         | -2.41 |       | A1/6         | -2.46 |       | A1/6         | -2.00 |
|       | A1/7         | -2.43 |       | A1/7         | -2.38 |       | A1/7         | -2.42 |       | A1/7         | -1.97 |
|       | A1/8         | -2.39 |       | A1/8         | -2.34 |       | A1/8         | -2.38 |       | A1/8         | -1.94 |
|       | A1/9         | -2.44 |       | A1/9         | -2.39 |       | A1/9         | -2.43 |       | A1/9         | -1.98 |
|       | A1/10        | -2.40 |       | A1/10        | -2.35 |       | A1/10        | -2.39 |       | A1/10        | -1.95 |
|       | A1/11        | -2.34 |       | A1/11        | -2.30 |       | A1/11        | -2.34 |       | A1/11        | -1.90 |
|       | A1/12        | -2.41 |       | A1/12        | -2.35 |       | A1/12        | -2.40 |       | A1/12        | -1.96 |
|       | A1/13        | -2.37 |       | A1/13        | -2.32 |       | A1/13        | -2.36 |       | A1/13        | -1.93 |
|       | A1/14        | -2.29 |       | A1/14        | -2.24 |       | A1/14        | -2.28 |       | A1/14        | -1.87 |
| X+    | A1/20        | -1.69 | X+    | A1/20        | -1.65 | X+    | A1/20        | -1.68 | X+    | A1/15        | -1.37 |
| X-    | A1/27        | -1.69 | X-    | A1/27        | -1.65 | X-    | A1/27        | -1.68 | X-    | A1/24        | -1.37 |
| Y+    | A1/34        | -1.70 | Y+    | A1/34        | -1.65 | Y+    | A1/34        | -1.68 | Y+    | A1/40        | -1.37 |
| Y-    | A1/36        | -1.70 | Y-    | A1/36        | -1.65 | Y-    | A1/36        | -1.68 | Y-    | A1/46        | -1.37 |
| 82    | A1/1         | -6.12 | 83    | A1/1         | -5.55 | 84    | A1/1         | -5.17 | 85    | A1/1         | -5.11 |
|       | A1/2         | -6.05 |       | A1/2         | -5.48 |       | A1/2         | -5.10 |       | A1/2         | -5.03 |
|       | A1/3         | -6.12 |       | A1/3         | -5.55 |       | A1/3         | -5.17 |       | A1/3         | -5.11 |
|       | A1/4         | -6.05 |       | A1/4         | -5.48 |       | A1/4         | -5.10 |       | A1/4         | -5.03 |
|       | A1/5         | -5.94 |       | A1/5         | -5.37 |       | A1/5         | -4.99 |       | A1/5         | -4.93 |
|       | A1/6         | -5.99 |       | A1/6         | -5.43 |       | A1/6         | -5.07 |       | A1/6         | -5.02 |
|       | A1/7         | -5.91 |       | A1/7         | -5.36 |       | A1/7         | -5.00 |       | A1/7         | -4.95 |
|       | A1/8         | -5.71 |       | A1/8         | -5.18 |       | A1/8         | -4.83 |       | A1/8         | -4.79 |
|       | A1/9         | -6.12 |       | A1/9         | -5.54 |       | A1/9         | -5.17 |       | A1/9         | -5.10 |
|       | A1/10        | -6.05 |       | A1/10        | -5.47 |       | A1/10        | -5.10 |       | A1/10        | -5.03 |
|       | A1/11        | -5.93 |       | A1/11        | -5.37 |       | A1/11        | -4.99 |       | A1/11        | -4.92 |
|       | A1/12        | -6.27 |       | A1/12        | -5.67 |       | A1/12        | -5.27 |       | A1/12        | -5.19 |
|       | A1/13        | -6.19 |       | A1/13        | -5.60 |       | A1/13        | -5.20 |       | A1/13        | -5.12 |
|       | A1/14        | -6.17 |       | A1/14        | -5.57 |       | A1/14        | -5.17 |       | A1/14        | -5.07 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |       |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |       |
|       | X+           | A1/15 | -4.28 | X+           | A1/18 | -3.87 | X+           | A1/18 | -3.60 | X+           | A1/20 | -3.55 |
|       | X-           | A1/24 | -4.28 | X-           | A1/25 | -3.87 | X-           | A1/25 | -3.60 | X-           | A1/27 | -3.55 |
|       | Y+           | A1/40 | -4.29 | Y+           | A1/41 | -3.87 | Y+           | A1/41 | -3.61 | Y+           | A1/41 | -3.56 |
|       | Y-           | A1/46 | -4.29 | Y-           | A1/43 | -3.87 | Y-           | A1/43 | -3.61 | Y-           | A1/43 | -3.56 |
| 86    | A1/1         | -5.59 | 87    | A1/1         | -4.18 | 88    | A1/1         | -3.80 | 89    | A1/1         | -4.07 |       |
|       | A1/2         | -5.55 |       | A1/2         | -4.15 |       | A1/2         | -3.77 |       | A1/2         | -4.04 |       |
|       | A1/3         | -5.59 |       | A1/3         | -4.18 |       | A1/3         | -3.80 |       | A1/3         | -4.07 |       |
|       | A1/4         | -5.55 |       | A1/4         | -4.16 |       | A1/4         | -3.77 |       | A1/4         | -4.04 |       |
|       | A1/5         | -5.49 |       | A1/5         | -4.12 |       | A1/5         | -3.74 |       | A1/5         | -4.00 |       |
|       | A1/6         | -5.56 |       | A1/6         | -4.16 |       | A1/6         | -3.78 |       | A1/6         | -4.05 |       |
|       | A1/7         | -5.52 |       | A1/7         | -4.14 |       | A1/7         | -3.76 |       | A1/7         | -4.02 |       |
|       | A1/8         | -5.45 |       | A1/8         | -4.09 |       | A1/8         | -3.71 |       | A1/8         | -3.96 |       |
|       | A1/9         | -5.58 |       | A1/9         | -4.18 |       | A1/9         | -3.80 |       | A1/9         | -4.07 |       |
|       | A1/10        | -5.54 |       | A1/10        | -4.15 |       | A1/10        | -3.77 |       | A1/10        | -4.04 |       |
|       | A1/11        | -5.48 |       | A1/11        | -4.12 |       | A1/11        | -3.74 |       | A1/11        | -4.00 |       |
|       | A1/12        | -5.61 |       | A1/12        | -4.20 |       | A1/12        | -3.82 |       | A1/12        | -4.09 |       |
|       | A1/13        | -5.57 |       | A1/13        | -4.17 |       | A1/13        | -3.79 |       | A1/13        | -4.06 |       |
|       | A1/14        | -5.53 |       | A1/14        | -4.15 |       | A1/14        | -3.77 |       | A1/14        | -4.03 |       |
|       | X+           | A1/15 | -3.90 | X+           | A1/15 | -2.90 | X+           | A1/18 | -2.63 | X+           | A1/18 | -2.82 |
|       | X-           | A1/24 | -3.90 | X-           | A1/24 | -2.90 | X-           | A1/25 | -2.63 | X-           | A1/25 | -2.82 |
|       | Y+           | A1/40 | -3.90 | Y+           | A1/40 | -2.90 | Y+           | A1/41 | -2.63 | Y+           | A1/41 | -2.82 |
|       | Y-           | A1/46 | -3.90 | Y-           | A1/46 | -2.90 | Y-           | A1/43 | -2.63 | Y-           | A1/43 | -2.82 |
| 90    | A1/1         | -3.25 | 91    | A1/1         | -2.36 | 92    | A1/1         | -1.90 | 93    | A1/1         | -1.89 |       |
|       | A1/2         | -3.24 |       | A1/2         | -2.37 |       | A1/2         | -1.91 |       | A1/2         | -1.90 |       |
|       | A1/3         | -3.26 |       | A1/3         | -2.37 |       | A1/3         | -1.90 |       | A1/3         | -1.89 |       |
|       | A1/4         | -3.25 |       | A1/4         | -2.37 |       | A1/4         | -1.91 |       | A1/4         | -1.90 |       |
|       | A1/5         | -3.24 |       | A1/5         | -2.37 |       | A1/5         | -1.93 |       | A1/5         | -1.92 |       |
|       | A1/6         | -3.30 |       | A1/6         | -2.38 |       | A1/6         | -1.91 |       | A1/6         | -1.89 |       |
|       | A1/7         | -3.29 |       | A1/7         | -2.39 |       | A1/7         | -1.92 |       | A1/7         | -1.90 |       |
|       | A1/8         | -3.31 |       | A1/8         | -2.40 |       | A1/8         | -1.94 |       | A1/8         | -1.92 |       |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/9         | -3.25 |       | A1/9         | -2.36 |       | A1/9         | -1.90 |       | A1/9         | -1.89 |
|       | A1/10        | -3.24 |       | A1/10        | -2.37 |       | A1/10        | -1.91 |       | A1/10        | -1.90 |
|       | A1/11        | -3.22 |       | A1/11        | -2.37 |       | A1/11        | -1.93 |       | A1/11        | -1.92 |
|       | A1/12        | -3.20 |       | A1/12        | -2.34 |       | A1/12        | -1.90 |       | A1/12        | -1.89 |
|       | A1/13        | -3.19 |       | A1/13        | -2.35 |       | A1/13        | -1.91 |       | A1/13        | -1.90 |
|       | A1/14        | -3.15 |       | A1/14        | -2.34 |       | A1/14        | -1.92 |       | A1/14        | -1.91 |
| X+    | A1/20        | -2.27 | X+    | A1/20        | -1.63 | X+    | A1/20        | -1.30 | X+    | A1/20        | -1.29 |
| X-    | A1/27        | -2.27 | X-    | A1/27        | -1.63 | X-    | A1/27        | -1.30 | X-    | A1/27        | -1.29 |
| Y+    | A1/41        | -2.27 | Y+    | A1/41        | -1.63 | Y+    | A1/41        | -1.30 | Y+    | A1/34        | -1.29 |
| Y-    | A1/43        | -2.27 | Y-    | A1/43        | -1.63 | Y-    | A1/43        | -1.30 | Y-    | A1/36        | -1.29 |
| 94    | A1/1         | -4.12 | 95    | A1/1         | -3.95 | 96    | A1/1         | -3.85 | 97    | A1/1         | -3.98 |
|       | A1/2         | -4.09 |       | A1/2         | -3.92 |       | A1/2         | -3.82 |       | A1/2         | -3.95 |
|       | A1/3         | -4.12 |       | A1/3         | -3.95 |       | A1/3         | -3.85 |       | A1/3         | -3.98 |
|       | A1/4         | -4.09 |       | A1/4         | -3.92 |       | A1/4         | -3.82 |       | A1/4         | -3.95 |
|       | A1/5         | -4.03 |       | A1/5         | -3.87 |       | A1/5         | -3.77 |       | A1/5         | -3.90 |
|       | A1/6         | -4.15 |       | A1/6         | -3.96 |       | A1/6         | -3.85 |       | A1/6         | -3.99 |
|       | A1/7         | -4.11 |       | A1/7         | -3.93 |       | A1/7         | -3.82 |       | A1/7         | -3.96 |
|       | A1/8         | -4.08 |       | A1/8         | -3.88 |       | A1/8         | -3.78 |       | A1/8         | -3.91 |
|       | A1/9         | -4.12 |       | A1/9         | -3.95 |       | A1/9         | -3.85 |       | A1/9         | -3.99 |
|       | A1/10        | -4.09 |       | A1/10        | -3.92 |       | A1/10        | -3.82 |       | A1/10        | -3.95 |
|       | A1/11        | -4.03 |       | A1/11        | -3.87 |       | A1/11        | -3.77 |       | A1/11        | -3.90 |
|       | A1/12        | -4.09 |       | A1/12        | -3.95 |       | A1/12        | -3.85 |       | A1/12        | -3.98 |
|       | A1/13        | -4.06 |       | A1/13        | -3.92 |       | A1/13        | -3.82 |       | A1/13        | -3.95 |
|       | A1/14        | -3.99 |       | A1/14        | -3.87 |       | A1/14        | -3.78 |       | A1/14        | -3.90 |
| X+    | A1/21        | -2.85 | X+    | A1/21        | -2.73 | X+    | A1/21        | -2.66 | X+    | A1/21        | -2.75 |
| X-    | A1/30        | -2.85 | X-    | A1/30        | -2.73 | X-    | A1/30        | -2.66 | X-    | A1/30        | -2.75 |
| Y+    | A1/40        | -2.85 | Y+    | A1/40        | -2.73 | Y+    | A1/40        | -2.66 | Y+    | A1/40        | -2.75 |
| Y-    | A1/46        | -2.85 | Y-    | A1/46        | -2.73 | Y-    | A1/46        | -2.66 | Y-    | A1/46        | -2.75 |
| 98    | A1/1         | -4.37 | 99    | A1/1         | -4.16 | 100   | A1/1         | -4.26 | 101   | A1/1         | -4.53 |
|       | A1/2         | -4.30 |       | A1/2         | -4.09 |       | A1/2         | -4.19 |       | A1/2         | -4.46 |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/3         | -4.37 |       | A1/3         | -4.16 |       | A1/3         | -4.26 |       | A1/3         | -4.53 |
|       | A1/4         | -4.30 |       | A1/4         | -4.09 |       | A1/4         | -4.19 |       | A1/4         | -4.46 |
|       | A1/5         | -4.20 |       | A1/5         | -4.00 |       | A1/5         | -4.09 |       | A1/5         | -4.35 |
|       | A1/6         | -4.42 |       | A1/6         | -4.21 |       | A1/6         | -4.31 |       | A1/6         | -4.58 |
|       | A1/7         | -4.36 |       | A1/7         | -4.15 |       | A1/7         | -4.25 |       | A1/7         | -4.51 |
|       | A1/8         | -4.29 |       | A1/8         | -4.08 |       | A1/8         | -4.18 |       | A1/8         | -4.43 |
|       | A1/9         | -4.37 |       | A1/9         | -4.16 |       | A1/9         | -4.26 |       | A1/9         | -4.53 |
|       | A1/10        | -4.30 |       | A1/10        | -4.09 |       | A1/10        | -4.19 |       | A1/10        | -4.46 |
|       | A1/11        | -4.20 |       | A1/11        | -4.00 |       | A1/11        | -4.09 |       | A1/11        | -4.35 |
|       | A1/12        | -4.32 |       | A1/12        | -4.10 |       | A1/12        | -4.20 |       | A1/12        | -4.48 |
|       | A1/13        | -4.25 |       | A1/13        | -4.04 |       | A1/13        | -4.14 |       | A1/13        | -4.40 |
|       | A1/14        | -4.11 |       | A1/14        | -3.91 |       | A1/14        | -4.00 |       | A1/14        | -4.26 |
| X+    | A1/15        | -3.02 | X+    | A1/15        | -2.88 | X+    | A1/15        | -2.95 | X+    | A1/15        | -3.13 |
| X-    | A1/24        | -3.02 | X-    | A1/24        | -2.88 | X-    | A1/24        | -2.95 | X-    | A1/24        | -3.13 |
| Y+    | A1/40        | -3.02 | Y+    | A1/40        | -2.88 | Y+    | A1/40        | -2.96 | Y+    | A1/40        | -3.14 |
| Y-    | A1/46        | -3.02 | Y-    | A1/46        | -2.88 | Y-    | A1/46        | -2.96 | Y-    | A1/46        | -3.14 |
| 102   | A1/1         | -4.95 | 103   | A1/1         | -4.83 | 104   | A1/1         | -4.89 | 105   | A1/1         | -4.83 |
|       | A1/2         | -4.88 |       | A1/2         | -4.77 |       | A1/2         | -4.82 |       | A1/2         | -4.76 |
|       | A1/3         | -4.95 |       | A1/3         | -4.84 |       | A1/3         | -4.89 |       | A1/3         | -4.83 |
|       | A1/4         | -4.88 |       | A1/4         | -4.77 |       | A1/4         | -4.82 |       | A1/4         | -4.76 |
|       | A1/5         | -4.78 |       | A1/5         | -4.67 |       | A1/5         | -4.72 |       | A1/5         | -4.65 |
|       | A1/6         | -4.86 |       | A1/6         | -4.76 |       | A1/6         | -4.81 |       | A1/6         | -4.76 |
|       | A1/7         | -4.80 |       | A1/7         | -4.69 |       | A1/7         | -4.74 |       | A1/7         | -4.69 |
|       | A1/8         | -4.64 |       | A1/8         | -4.54 |       | A1/8         | -4.58 |       | A1/8         | -4.53 |
|       | A1/9         | -4.94 |       | A1/9         | -4.83 |       | A1/9         | -4.89 |       | A1/9         | -4.83 |
|       | A1/10        | -4.88 |       | A1/10        | -4.77 |       | A1/10        | -4.82 |       | A1/10        | -4.76 |
|       | A1/11        | -4.77 |       | A1/11        | -4.67 |       | A1/11        | -4.71 |       | A1/11        | -4.65 |
|       | A1/12        | -5.04 |       | A1/12        | -4.92 |       | A1/12        | -4.97 |       | A1/12        | -4.90 |
|       | A1/13        | -4.97 |       | A1/13        | -4.85 |       | A1/13        | -4.90 |       | A1/13        | -4.83 |
|       | A1/14        | -4.92 |       | A1/14        | -4.81 |       | A1/14        | -4.85 |       | A1/14        | -4.77 |
| X+    | A1/20        | -3.45 | X+    | A1/20        | -3.38 | X+    | A1/20        | -3.42 | X+    | A1/20        | -3.37 |
| X-    | A1/27        | -3.45 | X-    | A1/27        | -3.38 | X-    | A1/27        | -3.42 | X-    | A1/27        | -3.37 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |  |    |       |       |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|--|----|-------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |  |    |       |       |
|       | Y+           | A1/41 | -3.46 |              | Y+    | A1/41 | -3.39        |       | Y+    | A1/41        | -3.43 |  | Y+ | A1/41 | -3.38 |
|       | Y-           | A1/43 | -3.46 |              | Y-    | A1/43 | -3.39        |       | Y-    | A1/43        | -3.43 |  | Y- | A1/43 | -3.38 |
| 106   | A1/1         | -4.11 | 107   | A1/1         | -4.09 | 108   | A1/1         | -4.13 | 109   | A1/1         | -4.00 |  |    |       |       |
|       | A1/2         | -4.08 |       | A1/2         | -4.06 |       | A1/2         | -4.10 |       | A1/2         | -3.97 |  |    |       |       |
|       | A1/3         | -4.11 |       | A1/3         | -4.09 |       | A1/3         | -4.14 |       | A1/3         | -4.00 |  |    |       |       |
|       | A1/4         | -4.09 |       | A1/4         | -4.06 |       | A1/4         | -4.10 |       | A1/4         | -3.97 |  |    |       |       |
|       | A1/5         | -4.04 |       | A1/5         | -4.02 |       | A1/5         | -4.06 |       | A1/5         | -3.93 |  |    |       |       |
|       | A1/6         | -4.10 |       | A1/6         | -4.08 |       | A1/6         | -4.13 |       | A1/6         | -3.99 |  |    |       |       |
|       | A1/7         | -4.07 |       | A1/7         | -4.05 |       | A1/7         | -4.10 |       | A1/7         | -3.96 |  |    |       |       |
|       | A1/8         | -4.02 |       | A1/8         | -4.01 |       | A1/8         | -4.04 |       | A1/8         | -3.90 |  |    |       |       |
|       | A1/9         | -4.11 |       | A1/9         | -4.09 |       | A1/9         | -4.13 |       | A1/9         | -4.00 |  |    |       |       |
|       | A1/10        | -4.08 |       | A1/10        | -4.06 |       | A1/10        | -4.10 |       | A1/10        | -3.97 |  |    |       |       |
|       | A1/11        | -4.04 |       | A1/11        | -4.02 |       | A1/11        | -4.06 |       | A1/11        | -3.93 |  |    |       |       |
|       | A1/12        | -4.13 |       | A1/12        | -4.10 |       | A1/12        | -4.14 |       | A1/12        | -4.02 |  |    |       |       |
|       | A1/13        | -4.10 |       | A1/13        | -4.07 |       | A1/13        | -4.11 |       | A1/13        | -3.99 |  |    |       |       |
|       | A1/14        | -4.06 |       | A1/14        | -4.03 |       | A1/14        | -4.07 |       | A1/14        | -3.95 |  |    |       |       |
|       | X+           | A1/18 | -2.84 |              | X+    | A1/18 | -2.83        |       | X+    | A1/18        | -2.77 |  |    |       |       |
|       | X-           | A1/25 | -2.84 |              | X-    | A1/25 | -2.83        |       | X-    | A1/25        | -2.77 |  |    |       |       |
|       | Y+           | A1/41 | -2.85 |              | Y+    | A1/41 | -2.83        |       | Y+    | A1/41        | -2.78 |  |    |       |       |
|       | Y-           | A1/43 | -2.85 |              | Y-    | A1/43 | -2.83        |       | Y-    | A1/43        | -2.78 |  |    |       |       |
| 110   | A1/1         | -1.96 | 111   | A1/1         | -1.99 | 112   | A1/1         | -2.01 | 113   | A1/1         | -1.93 |  |    |       |       |
|       | A1/2         | -1.97 |       | A1/2         | -2.00 |       | A1/2         | -2.02 |       | A1/2         | -1.95 |  |    |       |       |
|       | A1/3         | -1.96 |       | A1/3         | -1.99 |       | A1/3         | -2.01 |       | A1/3         | -1.93 |  |    |       |       |
|       | A1/4         | -1.97 |       | A1/4         | -2.00 |       | A1/4         | -2.02 |       | A1/4         | -1.95 |  |    |       |       |
|       | A1/5         | -1.99 |       | A1/5         | -2.02 |       | A1/5         | -2.04 |       | A1/5         | -1.96 |  |    |       |       |
|       | A1/6         | -1.96 |       | A1/6         | -1.99 |       | A1/6         | -2.01 |       | A1/6         | -1.94 |  |    |       |       |
|       | A1/7         | -1.97 |       | A1/7         | -2.00 |       | A1/7         | -2.02 |       | A1/7         | -1.95 |  |    |       |       |
|       | A1/8         | -1.99 |       | A1/8         | -2.02 |       | A1/8         | -2.04 |       | A1/8         | -1.96 |  |    |       |       |
|       | A1/9         | -1.96 |       | A1/9         | -1.99 |       | A1/9         | -2.01 |       | A1/9         | -1.93 |  |    |       |       |
|       | A1/10        | -1.97 |       | A1/10        | -2.00 |       | A1/10        | -2.02 |       | A1/10        | -1.95 |  |    |       |       |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/11        | -1.99 |       | A1/11        | -2.02 |       | A1/11        | -2.04 |       | A1/11        | -1.96 |
|       | A1/12        | -1.96 |       | A1/12        | -1.99 |       | A1/12        | -2.01 |       | A1/12        | -1.93 |
|       | A1/13        | -1.97 |       | A1/13        | -2.00 |       | A1/13        | -2.02 |       | A1/13        | -1.94 |
|       | A1/14        | -1.99 |       | A1/14        | -2.02 |       | A1/14        | -2.03 |       | A1/14        | -1.96 |
| X+    | A1/20        | -1.34 | X+    | A1/20        | -1.36 | X+    | A1/20        | -1.37 | X+    | A1/20        | -1.32 |
| X-    | A1/27        | -1.34 | X-    | A1/27        | -1.36 | X-    | A1/27        | -1.37 | X-    | A1/27        | -1.32 |
| Y+    | A1/34        | -1.34 | Y+    | A1/34        | -1.36 | Y+    | A1/34        | -1.37 | Y+    | A1/34        | -1.32 |
| Y-    | A1/36        | -1.34 | Y-    | A1/36        | -1.36 | Y-    | A1/36        | -1.37 | Y-    | A1/36        | -1.32 |
| 114   | A1/1         | -4.13 | 115   | A1/1         | -4.13 | 116   | A1/1         | -4.18 | 117   | A1/1         | -4.03 |
|       | A1/2         | -4.10 |       | A1/2         | -4.10 |       | A1/2         | -4.14 |       | A1/2         | -4.00 |
|       | A1/3         | -4.13 |       | A1/3         | -4.13 |       | A1/3         | -4.18 |       | A1/3         | -4.04 |
|       | A1/4         | -4.10 |       | A1/4         | -4.10 |       | A1/4         | -4.14 |       | A1/4         | -4.00 |
|       | A1/5         | -4.05 |       | A1/5         | -4.05 |       | A1/5         | -4.09 |       | A1/5         | -3.95 |
|       | A1/6         | -4.13 |       | A1/6         | -4.13 |       | A1/6         | -4.18 |       | A1/6         | -4.05 |
|       | A1/7         | -4.10 |       | A1/7         | -4.10 |       | A1/7         | -4.14 |       | A1/7         | -4.01 |
|       | A1/8         | -4.05 |       | A1/8         | -4.05 |       | A1/8         | -4.10 |       | A1/8         | -3.97 |
|       | A1/9         | -4.13 |       | A1/9         | -4.13 |       | A1/9         | -4.17 |       | A1/9         | -4.03 |
|       | A1/10        | -4.10 |       | A1/10        | -4.10 |       | A1/10        | -4.14 |       | A1/10        | -4.00 |
|       | A1/11        | -4.05 |       | A1/11        | -4.05 |       | A1/11        | -4.09 |       | A1/11        | -3.95 |
|       | A1/12        | -4.13 |       | A1/12        | -4.13 |       | A1/12        | -4.17 |       | A1/12        | -4.02 |
|       | A1/13        | -4.10 |       | A1/13        | -4.10 |       | A1/13        | -4.14 |       | A1/13        | -3.99 |
|       | A1/14        | -4.05 |       | A1/14        | -4.05 |       | A1/14        | -4.09 |       | A1/14        | -3.93 |
| X+    | A1/21        | -2.85 | X+    | A1/21        | -2.85 | X+    | A1/21        | -2.89 | X+    | A1/21        | -2.79 |
| X-    | A1/30        | -2.85 | X-    | A1/30        | -2.85 | X-    | A1/30        | -2.89 | X-    | A1/30        | -2.79 |
| Y+    | A1/40        | -2.86 | Y+    | A1/40        | -2.86 | Y+    | A1/40        | -2.89 | Y+    | A1/40        | -2.80 |
| Y-    | A1/46        | -2.86 | Y-    | A1/46        | -2.86 | Y-    | A1/46        | -2.89 | Y-    | A1/46        | -2.80 |
| 118   | A1/1         | -4.50 | 119   | A1/1         | -4.41 | 120   | A1/1         | -4.47 | 121   | A1/1         | -4.41 |
|       | A1/2         | -4.43 |       | A1/2         | -4.34 |       | A1/2         | -4.40 |       | A1/2         | -4.34 |
|       | A1/3         | -4.50 |       | A1/3         | -4.41 |       | A1/3         | -4.47 |       | A1/3         | -4.41 |
|       | A1/4         | -4.43 |       | A1/4         | -4.34 |       | A1/4         | -4.40 |       | A1/4         | -4.34 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/5         | -4.33 |       | A1/5         | -4.25 |       | A1/5         | -4.30 |       | A1/5         | -4.24 |
|       | A1/6         | -4.56 |       | A1/6         | -4.47 |       | A1/6         | -4.53 |       | A1/6         | -4.47 |
|       | A1/7         | -4.49 |       | A1/7         | -4.40 |       | A1/7         | -4.46 |       | A1/7         | -4.40 |
|       | A1/8         | -4.43 |       | A1/8         | -4.35 |       | A1/8         | -4.41 |       | A1/8         | -4.34 |
|       | A1/9         | -4.50 |       | A1/9         | -4.41 |       | A1/9         | -4.47 |       | A1/9         | -4.41 |
|       | A1/10        | -4.43 |       | A1/10        | -4.34 |       | A1/10        | -4.40 |       | A1/10        | -4.34 |
|       | A1/11        | -4.33 |       | A1/11        | -4.24 |       | A1/11        | -4.30 |       | A1/11        | -4.24 |
|       | A1/12        | -4.44 |       | A1/12        | -4.34 |       | A1/12        | -4.40 |       | A1/12        | -4.35 |
|       | A1/13        | -4.37 |       | A1/13        | -4.28 |       | A1/13        | -4.33 |       | A1/13        | -4.28 |
|       | A1/14        | -4.22 |       | A1/14        | -4.14 |       | A1/14        | -4.18 |       | A1/14        | -4.13 |
| X+    | A1/15        | -3.12 | X+    | A1/15        | -3.07 | X+    | A1/15        | -3.11 | X+    | A1/15        | -3.07 |
| X-    | A1/24        | -3.12 | X-    | A1/24        | -3.07 | X-    | A1/24        | -3.11 | X-    | A1/24        | -3.07 |
| Y+    | A1/40        | -3.13 | Y+    | A1/40        | -3.08 | Y+    | A1/40        | -3.13 | Y+    | A1/40        | -3.08 |
| Y-    | A1/46        | -3.13 | Y-    | A1/46        | -3.08 | Y-    | A1/46        | -3.13 | Y-    | A1/46        | -3.08 |
| 122   | A1/1         | -4.50 | 123   | A1/1         | -4.43 | 124   | A1/1         | -4.49 | 125   | A1/1         | -4.74 |
|       | A1/2         | -4.44 |       | A1/2         | -4.37 |       | A1/2         | -4.43 |       | A1/2         | -4.67 |
|       | A1/3         | -4.51 |       | A1/3         | -4.43 |       | A1/3         | -4.49 |       | A1/3         | -4.74 |
|       | A1/4         | -4.44 |       | A1/4         | -4.37 |       | A1/4         | -4.43 |       | A1/4         | -4.68 |
|       | A1/5         | -4.35 |       | A1/5         | -4.28 |       | A1/5         | -4.34 |       | A1/5         | -4.58 |
|       | A1/6         | -4.43 |       | A1/6         | -4.35 |       | A1/6         | -4.41 |       | A1/6         | -4.65 |
|       | A1/7         | -4.37 |       | A1/7         | -4.29 |       | A1/7         | -4.35 |       | A1/7         | -4.59 |
|       | A1/8         | -4.22 |       | A1/8         | -4.15 |       | A1/8         | -4.20 |       | A1/8         | -4.43 |
|       | A1/9         | -4.50 |       | A1/9         | -4.43 |       | A1/9         | -4.49 |       | A1/9         | -4.73 |
|       | A1/10        | -4.44 |       | A1/10        | -4.37 |       | A1/10        | -4.43 |       | A1/10        | -4.67 |
|       | A1/11        | -4.34 |       | A1/11        | -4.27 |       | A1/11        | -4.33 |       | A1/11        | -4.56 |
|       | A1/12        | -4.58 |       | A1/12        | -4.51 |       | A1/12        | -4.58 |       | A1/12        | -4.83 |
|       | A1/13        | -4.52 |       | A1/13        | -4.45 |       | A1/13        | -4.52 |       | A1/13        | -4.76 |
|       | A1/14        | -4.47 |       | A1/14        | -4.41 |       | A1/14        | -4.48 |       | A1/14        | -4.72 |
| X+    | A1/20        | -3.15 | X+    | A1/20        | -3.11 | X+    | A1/20        | -3.16 | X+    | A1/20        | -3.33 |
| X-    | A1/27        | -3.15 | X-    | A1/27        | -3.11 | X-    | A1/27        | -3.16 | X-    | A1/27        | -3.33 |
| Y+    | A1/41        | -3.17 | Y+    | A1/41        | -3.13 | Y+    | A1/41        | -3.18 | Y+    | A1/41        | -3.36 |
| Y-    | A1/43        | -3.17 | Y-    | A1/43        | -3.13 | Y-    | A1/43        | -3.18 | Y-    | A1/43        | -3.36 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 126   | A1/1         | -3.81 | 127   | A1/1         | -3.77 | 128   | A1/1         | -3.76 | 129   | A1/1         | -3.84 |
|       | A1/2         | -3.79 |       | A1/2         | -3.74 |       | A1/2         | -3.73 |       | A1/2         | -3.81 |
|       | A1/3         | -3.82 |       | A1/3         | -3.77 |       | A1/3         | -3.76 |       | A1/3         | -3.84 |
|       | A1/4         | -3.79 |       | A1/4         | -3.74 |       | A1/4         | -3.73 |       | A1/4         | -3.81 |
|       | A1/5         | -3.75 |       | A1/5         | -3.70 |       | A1/5         | -3.69 |       | A1/5         | -3.77 |
|       | A1/6         | -3.80 |       | A1/6         | -3.76 |       | A1/6         | -3.74 |       | A1/6         | -3.81 |
|       | A1/7         | -3.78 |       | A1/7         | -3.73 |       | A1/7         | -3.72 |       | A1/7         | -3.79 |
|       | A1/8         | -3.73 |       | A1/8         | -3.69 |       | A1/8         | -3.67 |       | A1/8         | -3.73 |
|       | A1/9         | -3.81 |       | A1/9         | -3.77 |       | A1/9         | -3.76 |       | A1/9         | -3.84 |
|       | A1/10        | -3.78 |       | A1/10        | -3.74 |       | A1/10        | -3.73 |       | A1/10        | -3.81 |
|       | A1/11        | -3.74 |       | A1/11        | -3.70 |       | A1/11        | -3.69 |       | A1/11        | -3.77 |
|       | A1/12        | -3.82 |       | A1/12        | -3.78 |       | A1/12        | -3.77 |       | A1/12        | -3.86 |
|       | A1/13        | -3.80 |       | A1/13        | -3.75 |       | A1/13        | -3.74 |       | A1/13        | -3.83 |
|       | A1/14        | -3.76 |       | A1/14        | -3.72 |       | A1/14        | -3.71 |       | A1/14        | -3.81 |
| X+    | A1/18        | -2.64 | X+    | A1/18        | -2.61 | X+    | A1/18        | -2.61 | X+    | A1/18        | -2.67 |
| X-    | A1/25        | -2.64 | X-    | A1/25        | -2.61 | X-    | A1/25        | -2.61 | X-    | A1/25        | -2.67 |
| Y+    | A1/41        | -2.65 | Y+    | A1/41        | -2.62 | Y+    | A1/41        | -2.62 | Y+    | A1/41        | -2.68 |
| Y-    | A1/43        | -2.65 | Y-    | A1/43        | -2.62 | Y-    | A1/43        | -2.62 | Y-    | A1/43        | -2.68 |
| 130   | A1/1         | -1.85 | 131   | A1/1         | -1.83 | 132   | A1/1         | -1.78 | 133   | A1/1         | -1.77 |
|       | A1/2         | -1.86 |       | A1/2         | -1.85 |       | A1/2         | -1.79 |       | A1/2         | -1.78 |
|       | A1/3         | -1.85 |       | A1/3         | -1.83 |       | A1/3         | -1.78 |       | A1/3         | -1.77 |
|       | A1/4         | -1.86 |       | A1/4         | -1.84 |       | A1/4         | -1.79 |       | A1/4         | -1.78 |
|       | A1/5         | -1.88 |       | A1/5         | -1.86 |       | A1/5         | -1.81 |       | A1/5         | -1.80 |
|       | A1/6         | -1.85 |       | A1/6         | -1.83 |       | A1/6         | -1.78 |       | A1/6         | -1.77 |
|       | A1/7         | -1.87 |       | A1/7         | -1.85 |       | A1/7         | -1.79 |       | A1/7         | -1.78 |
|       | A1/8         | -1.88 |       | A1/8         | -1.86 |       | A1/8         | -1.81 |       | A1/8         | -1.80 |
|       | A1/9         | -1.85 |       | A1/9         | -1.83 |       | A1/9         | -1.78 |       | A1/9         | -1.77 |
|       | A1/10        | -1.86 |       | A1/10        | -1.85 |       | A1/10        | -1.79 |       | A1/10        | -1.78 |
|       | A1/11        | -1.88 |       | A1/11        | -1.86 |       | A1/11        | -1.81 |       | A1/11        | -1.80 |
|       | A1/12        | -1.85 |       | A1/12        | -1.83 |       | A1/12        | -1.78 |       | A1/12        | -1.77 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/13        | -1.86 |       | A1/13        | -1.84 |       | A1/13        | -1.79 |       | A1/13        | -1.78 |
|       | A1/14        | -1.88 |       | A1/14        | -1.86 |       | A1/14        | -1.81 |       | A1/14        | -1.80 |
| X+    | A1/20        | -1.27 | X+    | A1/20        | -1.25 | X+    | A1/20        | -1.21 | X+    | A1/20        | -1.20 |
| X-    | A1/27        | -1.27 | X-    | A1/27        | -1.25 | X-    | A1/27        | -1.21 | X-    | A1/27        | -1.20 |
| Y+    | A1/34        | -1.27 | Y+    | A1/34        | -1.25 | Y+    | A1/34        | -1.21 | Y+    | A1/34        | -1.20 |
| Y-    | A1/36        | -1.27 | Y-    | A1/36        | -1.25 | Y-    | A1/36        | -1.21 | Y-    | A1/36        | -1.20 |
| 134   | A1/1         | -3.84 | 135   | A1/1         | -3.78 | 136   | A1/1         | -3.75 | 137   | A1/1         | -3.81 |
|       | A1/2         | -3.81 |       | A1/2         | -3.75 |       | A1/2         | -3.72 |       | A1/2         | -3.78 |
|       | A1/3         | -3.84 |       | A1/3         | -3.78 |       | A1/3         | -3.75 |       | A1/3         | -3.81 |
|       | A1/4         | -3.81 |       | A1/4         | -3.75 |       | A1/4         | -3.72 |       | A1/4         | -3.78 |
|       | A1/5         | -3.76 |       | A1/5         | -3.71 |       | A1/5         | -3.68 |       | A1/5         | -3.74 |
|       | A1/6         | -3.84 |       | A1/6         | -3.79 |       | A1/6         | -3.76 |       | A1/6         | -3.83 |
|       | A1/7         | -3.81 |       | A1/7         | -3.76 |       | A1/7         | -3.73 |       | A1/7         | -3.80 |
|       | A1/8         | -3.77 |       | A1/8         | -3.72 |       | A1/8         | -3.70 |       | A1/8         | -3.77 |
|       | A1/9         | -3.84 |       | A1/9         | -3.78 |       | A1/9         | -3.75 |       | A1/9         | -3.81 |
|       | A1/10        | -3.81 |       | A1/10        | -3.75 |       | A1/10        | -3.72 |       | A1/10        | -3.78 |
|       | A1/11        | -3.76 |       | A1/11        | -3.71 |       | A1/11        | -3.68 |       | A1/11        | -3.74 |
|       | A1/12        | -3.83 |       | A1/12        | -3.77 |       | A1/12        | -3.74 |       | A1/12        | -3.78 |
|       | A1/13        | -3.80 |       | A1/13        | -3.74 |       | A1/13        | -3.71 |       | A1/13        | -3.76 |
|       | A1/14        | -3.75 |       | A1/14        | -3.70 |       | A1/14        | -3.66 |       | A1/14        | -3.70 |
| X+    | A1/21        | -2.65 | X+    | A1/21        | -2.62 | X+    | A1/21        | -2.60 | X+    | A1/21        | -2.64 |
| X-    | A1/30        | -2.65 | X-    | A1/30        | -2.62 | X-    | A1/30        | -2.60 | X-    | A1/30        | -2.64 |
| Y+    | A1/40        | -2.66 | Y+    | A1/40        | -2.62 | Y+    | A1/40        | -2.61 | Y+    | A1/40        | -2.66 |
| Y-    | A1/46        | -2.66 | Y-    | A1/46        | -2.62 | Y-    | A1/46        | -2.61 | Y-    | A1/46        | -2.66 |
| 138   | A1/1         | -4.10 | 139   | A1/1         | -4.01 | 140   | A1/1         | -4.04 | 141   | A1/1         | -4.22 |
|       | A1/2         | -4.04 |       | A1/2         | -3.95 |       | A1/2         | -3.98 |       | A1/2         | -4.16 |
|       | A1/3         | -4.10 |       | A1/3         | -4.01 |       | A1/3         | -4.04 |       | A1/3         | -4.23 |
|       | A1/4         | -4.04 |       | A1/4         | -3.95 |       | A1/4         | -3.98 |       | A1/4         | -4.17 |
|       | A1/5         | -3.95 |       | A1/5         | -3.87 |       | A1/5         | -3.90 |       | A1/5         | -4.08 |
|       | A1/6         | -4.17 |       | A1/6         | -4.08 |       | A1/6         | -4.11 |       | A1/6         | -4.30 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/7         | -4.10 |       | A1/7         | -4.02 |       | A1/7         | -4.06 |       | A1/7         | -4.24 |
|       | A1/8         | -4.06 |       | A1/8         | -3.99 |       | A1/8         | -4.02 |       | A1/8         | -4.21 |
|       | A1/9         | -4.10 |       | A1/9         | -4.01 |       | A1/9         | -4.03 |       | A1/9         | -4.22 |
|       | A1/10        | -4.03 |       | A1/10        | -3.95 |       | A1/10        | -3.98 |       | A1/10        | -4.16 |
|       | A1/11        | -3.94 |       | A1/11        | -3.86 |       | A1/11        | -3.89 |       | A1/11        | -4.06 |
|       | A1/12        | -4.03 |       | A1/12        | -3.93 |       | A1/12        | -3.95 |       | A1/12        | -4.13 |
|       | A1/13        | -3.97 |       | A1/13        | -3.88 |       | A1/13        | -3.90 |       | A1/13        | -4.07 |
|       | A1/14        | -3.83 |       | A1/14        | -3.74 |       | A1/14        | -3.76 |       | A1/14        | -3.93 |
| X+    | A1/15        | -2.86 | X+    | A1/15        | -2.81 | X+    | A1/15        | -2.83 | X+    | A1/15        | -2.96 |
| X-    | A1/24        | -2.86 | X-    | A1/24        | -2.81 | X-    | A1/24        | -2.83 | X-    | A1/24        | -2.96 |
| Y+    | A1/40        | -2.88 | Y+    | A1/40        | -2.83 | Y+    | A1/40        | -2.86 | Y+    | A1/40        | -2.99 |
| Y-    | A1/46        | -2.88 | Y-    | A1/46        | -2.83 | Y-    | A1/46        | -2.86 | Y-    | A1/46        | -2.99 |
| 142   | A1/1         | -4.75 | 143   | A1/1         | -4.71 | 144   | A1/1         | -4.83 | 145   | A1/1         | -2.50 |
|       | A1/2         | -4.69 |       | A1/2         | -4.65 |       | A1/2         | -4.77 |       | A1/2         | -2.46 |
|       | A1/3         | -4.76 |       | A1/3         | -4.72 |       | A1/3         | -4.84 |       | A1/3         | -2.50 |
|       | A1/4         | -4.70 |       | A1/4         | -4.66 |       | A1/4         | -4.78 |       | A1/4         | -2.47 |
|       | A1/5         | -4.61 |       | A1/5         | -4.58 |       | A1/5         | -4.70 |       | A1/5         | -2.43 |
|       | A1/6         | -4.65 |       | A1/6         | -4.59 |       | A1/6         | -4.69 |       | A1/6         | -2.41 |
|       | A1/7         | -4.58 |       | A1/7         | -4.53 |       | A1/7         | -4.63 |       | A1/7         | -2.38 |
|       | A1/8         | -4.42 |       | A1/8         | -4.36 |       | A1/8         | -4.45 |       | A1/8         | -2.28 |
|       | A1/9         | -4.74 |       | A1/9         | -4.70 |       | A1/9         | -4.82 |       | A1/9         | -2.49 |
|       | A1/10        | -4.68 |       | A1/10        | -4.64 |       | A1/10        | -4.76 |       | A1/10        | -2.46 |
|       | A1/11        | -4.58 |       | A1/11        | -4.55 |       | A1/11        | -4.66 |       | A1/11        | -2.41 |
|       | A1/12        | -4.86 |       | A1/12        | -4.84 |       | A1/12        | -4.97 |       | A1/12        | -2.58 |
|       | A1/13        | -4.80 |       | A1/13        | -4.78 |       | A1/13        | -4.91 |       | A1/13        | -2.55 |
|       | A1/14        | -4.78 |       | A1/14        | -4.77 |       | A1/14        | -4.92 |       | A1/14        | -2.56 |
| X+    | A1/20        | -3.35 | X+    | A1/20        | -3.34 | X+    | A1/20        | -3.43 | X+    | A1/20        | -1.78 |
| X-    | A1/27        | -3.35 | X-    | A1/27        | -3.34 | X-    | A1/27        | -3.43 | X-    | A1/27        | -1.78 |
| Y+    | A1/41        | -3.39 | Y+    | A1/41        | -3.38 | Y+    | A1/41        | -3.48 | Y+    | A1/41        | -1.81 |
| Y-    | A1/43        | -3.39 | Y-    | A1/43        | -3.38 | Y-    | A1/43        | -3.48 | Y-    | A1/43        | -1.81 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 146   | A1/1         | -4.01 | 147   | A1/1         | -4.65 | 148   | A1/1         | -6.54 | 149   | A1/1         | -4.35 |
|       | A1/2         | -3.98 |       | A1/2         | -4.61 |       | A1/2         | -6.48 |       | A1/2         | -4.30 |
|       | A1/3         | -4.01 |       | A1/3         | -4.65 |       | A1/3         | -6.55 |       | A1/3         | -4.36 |
|       | A1/4         | -3.98 |       | A1/4         | -4.62 |       | A1/4         | -6.49 |       | A1/4         | -4.31 |
|       | A1/5         | -3.95 |       | A1/5         | -4.57 |       | A1/5         | -6.40 |       | A1/5         | -4.25 |
|       | A1/6         | -3.98 |       | A1/6         | -4.61 |       | A1/6         | -6.45 |       | A1/6         | -4.27 |
|       | A1/7         | -3.96 |       | A1/7         | -4.57 |       | A1/7         | -6.39 |       | A1/7         | -4.23 |
|       | A1/8         | -3.90 |       | A1/8         | -4.49 |       | A1/8         | -6.23 |       | A1/8         | -4.11 |
|       | A1/9         | -4.01 |       | A1/9         | -4.64 |       | A1/9         | -6.53 |       | A1/9         | -4.34 |
|       | A1/10        | -3.98 |       | A1/10        | -4.61 |       | A1/10        | -6.47 |       | A1/10        | -4.29 |
|       | A1/11        | -3.93 |       | A1/11        | -4.55 |       | A1/11        | -6.37 |       | A1/11        | -4.22 |
|       | A1/12        | -4.03 |       | A1/12        | -4.69 |       | A1/12        | -6.64 |       | A1/12        | -4.43 |
|       | A1/13        | -4.01 |       | A1/13        | -4.66 |       | A1/13        | -6.58 |       | A1/13        | -4.38 |
|       | A1/14        | -3.98 |       | A1/14        | -4.63 |       | A1/14        | -6.55 |       | A1/14        | -4.37 |
| X+    | A1/18        | -2.79 | X+    | A1/20        | -3.25 | X+    | A1/20        | -4.63 | X+    | A1/20        | -3.09 |
| X-    | A1/25        | -2.79 | X-    | A1/27        | -3.26 | X-    | A1/27        | -4.63 | X-    | A1/27        | -3.10 |
| Y+    | A1/41        | -2.80 | Y+    | A1/41        | -3.27 | Y+    | A1/41        | -4.66 | Y+    | A1/41        | -3.12 |
| Y-    | A1/43        | -2.80 | Y-    | A1/43        | -3.27 | Y-    | A1/43        | -4.66 | Y-    | A1/43        | -3.12 |
| 150   | A1/1         | -1.98 | 151   | A1/1         | -2.96 | 152   | A1/1         | -5.41 | 153   | A1/1         | -3.98 |
|       | A1/2         | -1.99 |       | A1/2         | -2.95 |       | A1/2         | -5.37 |       | A1/2         | -3.94 |
|       | A1/3         | -1.98 |       | A1/3         | -2.96 |       | A1/3         | -5.42 |       | A1/3         | -3.99 |
|       | A1/4         | -1.99 |       | A1/4         | -2.96 |       | A1/4         | -5.38 |       | A1/4         | -3.95 |
|       | A1/5         | -2.00 |       | A1/5         | -2.95 |       | A1/5         | -5.32 |       | A1/5         | -3.90 |
|       | A1/6         | -1.98 |       | A1/6         | -2.96 |       | A1/6         | -5.41 |       | A1/6         | -3.98 |
|       | A1/7         | -1.99 |       | A1/7         | -2.95 |       | A1/7         | -5.37 |       | A1/7         | -3.94 |
|       | A1/8         | -2.01 |       | A1/8         | -2.95 |       | A1/8         | -5.31 |       | A1/8         | -3.88 |
|       | A1/9         | -1.98 |       | A1/9         | -2.96 |       | A1/9         | -5.41 |       | A1/9         | -3.97 |
|       | A1/10        | -1.99 |       | A1/10        | -2.95 |       | A1/10        | -5.36 |       | A1/10        | -3.93 |
|       | A1/11        | -2.01 |       | A1/11        | -2.95 |       | A1/11        | -5.30 |       | A1/11        | -3.87 |
|       | A1/12        | -1.98 |       | A1/12        | -2.96 |       | A1/12        | -5.41 |       | A1/12        | -3.98 |
|       | A1/13        | -1.99 |       | A1/13        | -2.95 |       | A1/13        | -5.37 |       | A1/13        | -3.94 |
|       | A1/14        | -2.00 |       | A1/14        | -2.95 |       | A1/14        | -5.31 |       | A1/14        | -3.88 |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | X+ A1/20     | -1.35 |       | X+ A1/15     | -2.05 |       | X+ A1/15     | -3.81 |       | X+ A1/15     | -2.81 |
|       | X- A1/27     | -1.35 |       | X- A1/24     | -2.05 |       | X- A1/24     | -3.81 |       | X- A1/24     | -2.81 |
|       | Y+ A1/34     | -1.35 |       | Y+ A1/40     | -2.05 |       | Y+ A1/40     | -3.81 |       | Y+ A1/40     | -2.82 |
|       | Y- A1/36     | -1.35 |       | Y- A1/46     | -2.05 |       | Y- A1/46     | -3.81 |       | Y- A1/46     | -2.82 |
| 154   | A1/1         | -3.93 | 155   | A1/1         | -4.44 | 156   | A1/1         | -6.02 | 157   | A1/1         | -3.91 |
|       | A1/2         | -3.90 |       | A1/2         | -4.40 |       | A1/2         | -5.96 |       | A1/2         | -3.87 |
|       | A1/3         | -3.93 |       | A1/3         | -4.44 |       | A1/3         | -6.03 |       | A1/3         | -3.92 |
|       | A1/4         | -3.90 |       | A1/4         | -4.41 |       | A1/4         | -5.98 |       | A1/4         | -3.88 |
|       | A1/5         | -3.86 |       | A1/5         | -4.36 |       | A1/5         | -5.90 |       | A1/5         | -3.82 |
|       | A1/6         | -3.95 |       | A1/6         | -4.48 |       | A1/6         | -6.11 |       | A1/6         | -3.98 |
|       | A1/7         | -3.92 |       | A1/7         | -4.44 |       | A1/7         | -6.06 |       | A1/7         | -3.94 |
|       | A1/8         | -3.90 |       | A1/8         | -4.42 |       | A1/8         | -6.04 |       | A1/8         | -3.93 |
|       | A1/9         | -3.92 |       | A1/9         | -4.43 |       | A1/9         | -6.01 |       | A1/9         | -3.90 |
|       | A1/10        | -3.90 |       | A1/10        | -4.40 |       | A1/10        | -5.95 |       | A1/10        | -3.86 |
|       | A1/11        | -3.85 |       | A1/11        | -4.34 |       | A1/11        | -5.86 |       | A1/11        | -3.79 |
|       | A1/12        | -3.90 |       | A1/12        | -4.39 |       | A1/12        | -5.92 |       | A1/12        | -3.83 |
|       | A1/13        | -3.87 |       | A1/13        | -4.36 |       | A1/13        | -5.87 |       | A1/13        | -3.79 |
|       | A1/14        | -3.82 |       | A1/14        | -4.28 |       | A1/14        | -5.72 |       | A1/14        | -3.67 |
|       | X+ A1/21     | -2.73 |       | X+ A1/15     | -3.10 |       | X+ A1/15     | -4.26 |       | X+ A1/15     | -2.78 |
|       | X- A1/30     | -2.73 |       | X- A1/24     | -3.10 |       | X- A1/24     | -4.26 |       | X- A1/24     | -2.78 |
|       | Y+ A1/40     | -2.74 |       | Y+ A1/40     | -3.12 |       | Y+ A1/40     | -4.29 |       | Y+ A1/40     | -2.81 |
|       | Y- A1/46     | -2.74 |       | Y- A1/46     | -3.12 |       | Y- A1/46     | -4.29 |       | Y- A1/46     | -2.81 |
| 158   | A1/1         | -4.15 | 159   | A1/1         | -4.02 | 160   | A1/1         | -4.01 | 161   | A1/1         | -2.01 |
|       | A1/2         | -4.10 |       | A1/2         | -3.97 |       | A1/2         | -3.97 |       | A1/2         | -1.99 |
|       | A1/3         | -4.16 |       | A1/3         | -4.03 |       | A1/3         | -4.02 |       | A1/3         | -2.02 |
|       | A1/4         | -4.11 |       | A1/4         | -3.98 |       | A1/4         | -3.98 |       | A1/4         | -1.99 |
|       | A1/5         | -4.03 |       | A1/5         | -3.91 |       | A1/5         | -3.91 |       | A1/5         | -1.96 |
|       | A1/6         | -4.26 |       | A1/6         | -4.14 |       | A1/6         | -4.15 |       | A1/6         | -2.09 |
|       | A1/7         | -4.20 |       | A1/7         | -4.09 |       | A1/7         | -4.10 |       | A1/7         | -2.07 |
|       | A1/8         | -4.19 |       | A1/8         | -4.09 |       | A1/8         | -4.12 |       | A1/8         | -2.09 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/9         | -4.15 |       | A1/9         | -4.01 |       | A1/9         | -4.00 |       | A1/9         | -2.00 |
|       | A1/10        | -4.09 |       | A1/10        | -3.96 |       | A1/10        | -3.95 |       | A1/10        | -1.98 |
|       | A1/11        | -4.00 |       | A1/11        | -3.88 |       | A1/11        | -3.87 |       | A1/11        | -1.94 |
|       | A1/12        | -4.05 |       | A1/12        | -3.90 |       | A1/12        | -3.87 |       | A1/12        | -1.92 |
|       | A1/13        | -3.99 |       | A1/13        | -3.85 |       | A1/13        | -3.82 |       | A1/13        | -1.90 |
|       | A1/14        | -3.84 |       | A1/14        | -3.69 |       | A1/14        | -3.65 |       | A1/14        | -1.81 |
| X+    | A1/15        | -2.93 | X+    | A1/15        | -2.85 | X+    | A1/15        | -2.86 | X+    | A1/15        | -1.44 |
| X-    | A1/24        | -2.93 | X-    | A1/24        | -2.85 | X-    | A1/24        | -2.86 | X-    | A1/24        | -1.44 |
| Y+    | A1/40        | -2.96 | Y+    | A1/40        | -2.89 | Y+    | A1/40        | -2.90 | Y+    | A1/40        | -1.47 |
| Y-    | A1/46        | -2.96 | Y-    | A1/46        | -2.89 | Y-    | A1/46        | -2.90 | Y-    | A1/46        | -1.47 |
| 213   | A1/1         | -2.52 | 214   | A1/1         | -1.67 | 215   | A1/1         | -2.83 | 216   | A1/1         | -3.37 |
|       | A1/2         | -2.49 |       | A1/2         | -1.66 |       | A1/2         | -2.80 |       | A1/2         | -3.34 |
|       | A1/3         | -2.52 |       | A1/3         | -1.67 |       | A1/3         | -2.83 |       | A1/3         | -3.37 |
|       | A1/4         | -2.49 |       | A1/4         | -1.66 |       | A1/4         | -2.80 |       | A1/4         | -3.34 |
|       | A1/5         | -2.46 |       | A1/5         | -1.64 |       | A1/5         | -2.75 |       | A1/5         | -3.28 |
|       | A1/6         | -2.47 |       | A1/6         | -1.65 |       | A1/6         | -2.78 |       | A1/6         | -3.32 |
|       | A1/7         | -2.44 |       | A1/7         | -1.64 |       | A1/7         | -2.75 |       | A1/7         | -3.28 |
|       | A1/8         | -2.37 |       | A1/8         | -1.60 |       | A1/8         | -2.67 |       | A1/8         | -3.19 |
|       | A1/9         | -2.52 |       | A1/9         | -1.67 |       | A1/9         | -2.83 |       | A1/9         | -3.37 |
|       | A1/10        | -2.49 |       | A1/10        | -1.66 |       | A1/10        | -2.80 |       | A1/10        | -3.34 |
|       | A1/11        | -2.46 |       | A1/11        | -1.64 |       | A1/11        | -2.76 |       | A1/11        | -3.29 |
|       | A1/12        | -2.57 |       | A1/12        | -1.70 |       | A1/12        | -2.88 |       | A1/12        | -3.43 |
|       | A1/13        | -2.55 |       | A1/13        | -1.69 |       | A1/13        | -2.85 |       | A1/13        | -3.40 |
|       | A1/14        | -2.55 |       | A1/14        | -1.69 |       | A1/14        | -2.84 |       | A1/14        | -3.39 |
| X+    | A1/15        | -1.77 | X+    | A1/15        | -1.17 | X+    | A1/15        | -1.98 | X+    | A1/15        | -2.38 |
| X-    | A1/24        | -1.77 | X-    | A1/24        | -1.17 | X-    | A1/24        | -1.98 | X-    | A1/24        | -2.38 |
| Y+    | A1/31        | -1.79 | Y+    | A1/31        | -1.17 | Y+    | A1/31        | -1.99 | Y+    | A1/31        | -2.40 |
| Y-    | A1/37        | -1.79 | Y-    | A1/37        | -1.17 | Y-    | A1/37        | -1.99 | Y-    | A1/37        | -2.40 |
| 217   | A1/1         | -4.15 | 218   | A1/1         | -2.74 | 219   | A1/1         | -3.75 | 220   | A1/1         | -5.03 |
|       | A1/2         | -4.12 |       | A1/2         | -2.72 |       | A1/2         | -3.73 |       | A1/2         | -4.99 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/3         | -4.15 |       | A1/3         | -2.74 |       | A1/3         | -3.75 |       | A1/3         | -5.03 |
|       | A1/4         | -4.12 |       | A1/4         | -2.72 |       | A1/4         | -3.72 |       | A1/4         | -4.99 |
|       | A1/5         | -4.07 |       | A1/5         | -2.71 |       | A1/5         | -3.69 |       | A1/5         | -4.93 |
|       | A1/6         | -4.09 |       | A1/6         | -2.71 |       | A1/6         | -3.71 |       | A1/6         | -4.97 |
|       | A1/7         | -4.06 |       | A1/7         | -2.70 |       | A1/7         | -3.69 |       | A1/7         | -4.93 |
|       | A1/8         | -3.98 |       | A1/8         | -2.67 |       | A1/8         | -3.63 |       | A1/8         | -4.83 |
|       | A1/9         | -4.15 |       | A1/9         | -2.74 |       | A1/9         | -3.75 |       | A1/9         | -5.03 |
|       | A1/10        | -4.12 |       | A1/10        | -2.72 |       | A1/10        | -3.73 |       | A1/10        | -4.99 |
|       | A1/11        | -4.07 |       | A1/11        | -2.71 |       | A1/11        | -3.69 |       | A1/11        | -4.93 |
|       | A1/12        | -4.21 |       | A1/12        | -2.76 |       | A1/12        | -3.79 |       | A1/12        | -5.09 |
|       | A1/13        | -4.18 |       | A1/13        | -2.75 |       | A1/13        | -3.77 |       | A1/13        | -5.05 |
|       | A1/14        | -4.17 |       | A1/14        | -2.75 |       | A1/14        | -3.76 |       | A1/14        | -5.03 |
| X+    | A1/15        | -2.91 | X+    | A1/15        | -1.90 | X+    | A1/15        | -2.60 | X+    | A1/15        | -3.49 |
| X-    | A1/24        | -2.91 | X-    | A1/24        | -1.90 | X-    | A1/24        | -2.60 | X-    | A1/24        | -3.49 |
| Y+    | A1/31        | -2.93 | Y+    | A1/31        | -1.90 | Y+    | A1/31        | -2.60 | Y+    | A1/31        | -3.50 |
| Y-    | A1/37        | -2.93 | Y-    | A1/37        | -1.90 | Y-    | A1/37        | -2.60 | Y-    | A1/37        | -3.50 |
| 221   | A1/1         | -3.00 | 222   | A1/1         | -2.26 | 223   | A1/1         | -2.54 | 224   | A1/1         | -2.83 |
|       | A1/2         | -2.98 |       | A1/2         | -2.25 |       | A1/2         | -2.54 |       | A1/2         | -2.80 |
|       | A1/3         | -3.00 |       | A1/3         | -2.25 |       | A1/3         | -2.54 |       | A1/3         | -2.83 |
|       | A1/4         | -2.98 |       | A1/4         | -2.25 |       | A1/4         | -2.54 |       | A1/4         | -2.80 |
|       | A1/5         | -2.96 |       | A1/5         | -2.24 |       | A1/5         | -2.53 |       | A1/5         | -2.76 |
|       | A1/6         | -2.99 |       | A1/6         | -2.25 |       | A1/6         | -2.54 |       | A1/6         | -2.78 |
|       | A1/7         | -2.97 |       | A1/7         | -2.25 |       | A1/7         | -2.53 |       | A1/7         | -2.75 |
|       | A1/8         | -2.94 |       | A1/8         | -2.24 |       | A1/8         | -2.52 |       | A1/8         | -2.67 |
|       | A1/9         | -3.00 |       | A1/9         | -2.26 |       | A1/9         | -2.54 |       | A1/9         | -2.83 |
|       | A1/10        | -2.98 |       | A1/10        | -2.25 |       | A1/10        | -2.54 |       | A1/10        | -2.80 |
|       | A1/11        | -2.96 |       | A1/11        | -2.24 |       | A1/11        | -2.53 |       | A1/11        | -2.75 |
|       | A1/12        | -3.01 |       | A1/12        | -2.26 |       | A1/12        | -2.55 |       | A1/12        | -2.88 |
|       | A1/13        | -2.99 |       | A1/13        | -2.25 |       | A1/13        | -2.54 |       | A1/13        | -2.85 |
|       | A1/14        | -2.97 |       | A1/14        | -2.24 |       | A1/14        | -2.53 |       | A1/14        | -2.84 |
| X+    | A1/21        | -2.10 | X+    | A1/21        | -1.57 | X+    | A1/21        | -1.75 | X+    | A1/15        | -1.99 |
| X-    | A1/30        | -2.10 | X-    | A1/30        | -1.57 | X-    | A1/30        | -1.75 | X-    | A1/24        | -1.99 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |  |    |       |       |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|--|----|-------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |  |    |       |       |
|       | Y+           | A1/31 | -2.11 |              | Y+    | A1/31 | -1.57        |       | Y+    | A1/31        | -1.75 |  | Y+ | A1/31 | -2.00 |
|       | Y-           | A1/37 | -2.11 |              | Y-    | A1/37 | -1.57        |       | Y-    | A1/37        | -1.75 |  | Y- | A1/37 | -2.00 |
| 225   | A1/1         | -1.67 | 226   | A1/1         | -2.50 | 227   | A1/1         | -3.75 | 228   | A1/1         | -2.73 |  |    |       |       |
|       | A1/2         | -1.66 |       | A1/2         | -2.47 |       | A1/2         | -3.73 |       | A1/2         | -2.72 |  |    |       |       |
|       | A1/3         | -1.67 |       | A1/3         | -2.50 |       | A1/3         | -3.75 |       | A1/3         | -2.73 |  |    |       |       |
|       | A1/4         | -1.66 |       | A1/4         | -2.47 |       | A1/4         | -3.73 |       | A1/4         | -2.72 |  |    |       |       |
|       | A1/5         | -1.64 |       | A1/5         | -2.43 |       | A1/5         | -3.69 |       | A1/5         | -2.70 |  |    |       |       |
|       | A1/6         | -1.65 |       | A1/6         | -2.45 |       | A1/6         | -3.71 |       | A1/6         | -2.71 |  |    |       |       |
|       | A1/7         | -1.63 |       | A1/7         | -2.42 |       | A1/7         | -3.69 |       | A1/7         | -2.70 |  |    |       |       |
|       | A1/8         | -1.60 |       | A1/8         | -2.35 |       | A1/8         | -3.63 |       | A1/8         | -2.67 |  |    |       |       |
|       | A1/9         | -1.67 |       | A1/9         | -2.50 |       | A1/9         | -3.75 |       | A1/9         | -2.73 |  |    |       |       |
|       | A1/10        | -1.66 |       | A1/10        | -2.47 |       | A1/10        | -3.73 |       | A1/10        | -2.72 |  |    |       |       |
|       | A1/11        | -1.64 |       | A1/11        | -2.44 |       | A1/11        | -3.69 |       | A1/11        | -2.70 |  |    |       |       |
|       | A1/12        | -1.70 |       | A1/12        | -2.55 |       | A1/12        | -3.79 |       | A1/12        | -2.75 |  |    |       |       |
|       | A1/13        | -1.68 |       | A1/13        | -2.52 |       | A1/13        | -3.77 |       | A1/13        | -2.74 |  |    |       |       |
|       | A1/14        | -1.68 |       | A1/14        | -2.52 |       | A1/14        | -3.76 |       | A1/14        | -2.74 |  |    |       |       |
|       | X+           | A1/15 | -1.16 |              | X+    | A1/15 | -1.74        |       | X+    | A1/15        | -2.60 |  | X+ | A1/15 | -1.89 |
|       | X-           | A1/24 | -1.16 |              | X-    | A1/24 | -1.74        |       | X-    | A1/24        | -2.60 |  | X- | A1/24 | -1.89 |
|       | Y+           | A1/31 | -1.17 |              | Y+    | A1/40 | -1.75        |       | Y+    | A1/31        | -2.61 |  | Y+ | A1/40 | -1.89 |
|       | Y-           | A1/37 | -1.17 |              | Y-    | A1/46 | -1.75        |       | Y-    | A1/37        | -2.61 |  | Y- | A1/46 | -1.89 |
| 229   | A1/1         | -4.12 | 230   | A1/1         | -3.34 | 231   | A1/1         | -2.54 | 232   | A1/1         | -2.25 |  |    |       |       |
|       | A1/2         | -4.09 |       | A1/2         | -3.30 |       | A1/2         | -2.54 |       | A1/2         | -2.24 |  |    |       |       |
|       | A1/3         | -4.12 |       | A1/3         | -3.34 |       | A1/3         | -2.54 |       | A1/3         | -2.25 |  |    |       |       |
|       | A1/4         | -4.09 |       | A1/4         | -3.30 |       | A1/4         | -2.54 |       | A1/4         | -2.24 |  |    |       |       |
|       | A1/5         | -4.04 |       | A1/5         | -3.25 |       | A1/5         | -2.53 |       | A1/5         | -2.24 |  |    |       |       |
|       | A1/6         | -4.07 |       | A1/6         | -3.29 |       | A1/6         | -2.54 |       | A1/6         | -2.25 |  |    |       |       |
|       | A1/7         | -4.03 |       | A1/7         | -3.25 |       | A1/7         | -2.53 |       | A1/7         | -2.24 |  |    |       |       |
|       | A1/8         | -3.95 |       | A1/8         | -3.16 |       | A1/8         | -2.52 |       | A1/8         | -2.23 |  |    |       |       |
|       | A1/9         | -4.12 |       | A1/9         | -3.34 |       | A1/9         | -2.54 |       | A1/9         | -2.25 |  |    |       |       |
|       | A1/10        | -4.09 |       | A1/10        | -3.30 |       | A1/10        | -2.53 |       | A1/10        | -2.24 |  |    |       |       |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/11        | -4.04 |       | A1/11        | -3.25 |       | A1/11        | -2.53 |       | A1/11        | -2.23 |
|       | A1/12        | -4.17 |       | A1/12        | -3.39 |       | A1/12        | -2.55 |       | A1/12        | -2.25 |
|       | A1/13        | -4.14 |       | A1/13        | -3.36 |       | A1/13        | -2.54 |       | A1/13        | -2.24 |
|       | A1/14        | -4.13 |       | A1/14        | -3.34 |       | A1/14        | -2.53 |       | A1/14        | -2.24 |
| X+    | A1/15        | -2.87 | X+    | A1/15        | -2.34 | X+    | A1/21        | -1.75 | X+    | A1/21        | -1.56 |
| X-    | A1/24        | -2.87 | X-    | A1/24        | -2.34 | X-    | A1/30        | -1.75 | X-    | A1/30        | -1.56 |
| Y+    | A1/40        | -2.87 | Y+    | A1/40        | -2.34 | Y+    | A1/40        | -1.75 | Y+    | A1/40        | -1.56 |
| Y-    | A1/46        | -2.87 | Y-    | A1/46        | -2.34 | Y-    | A1/46        | -1.75 | Y-    | A1/46        | -1.56 |
| 233   | A1/1         | -2.99 | 234   | A1/1         | -2.21 | 235   | A1/1         | -2.05 | 236   | A1/1         | -1.99 |
|       | A1/2         | -2.97 |       | A1/2         | -2.20 |       | A1/2         | -2.04 |       | A1/2         | -1.98 |
|       | A1/3         | -2.99 |       | A1/3         | -2.21 |       | A1/3         | -2.05 |       | A1/3         | -1.99 |
|       | A1/4         | -2.97 |       | A1/4         | -2.20 |       | A1/4         | -2.04 |       | A1/4         | -1.98 |
|       | A1/5         | -2.94 |       | A1/5         | -2.20 |       | A1/5         | -2.04 |       | A1/5         | -1.98 |
|       | A1/6         | -2.98 |       | A1/6         | -2.22 |       | A1/6         | -2.06 |       | A1/6         | -2.00 |
|       | A1/7         | -2.96 |       | A1/7         | -2.21 |       | A1/7         | -2.05 |       | A1/7         | -2.00 |
|       | A1/8         | -2.93 |       | A1/8         | -2.21 |       | A1/8         | -2.05 |       | A1/8         | -1.99 |
|       | A1/9         | -2.99 |       | A1/9         | -2.21 |       | A1/9         | -2.05 |       | A1/9         | -1.99 |
|       | A1/10        | -2.97 |       | A1/10        | -2.20 |       | A1/10        | -2.04 |       | A1/10        | -1.98 |
|       | A1/11        | -2.94 |       | A1/11        | -2.20 |       | A1/11        | -2.04 |       | A1/11        | -1.97 |
|       | A1/12        | -2.99 |       | A1/12        | -2.20 |       | A1/12        | -2.04 |       | A1/12        | -1.98 |
|       | A1/13        | -2.97 |       | A1/13        | -2.20 |       | A1/13        | -2.03 |       | A1/13        | -1.97 |
|       | A1/14        | -2.95 |       | A1/14        | -2.18 |       | A1/14        | -2.02 |       | A1/14        | -1.95 |
| X+    | A1/15        | -2.08 | X+    | A1/21        | -1.53 | X+    | A1/21        | -1.43 | X+    | A1/20        | -1.39 |
| X-    | A1/24        | -2.08 | X-    | A1/30        | -1.53 | X-    | A1/30        | -1.43 | X-    | A1/27        | -1.39 |
| Y+    | A1/40        | -2.08 | Y+    | A1/31        | -1.53 | Y+    | A1/40        | -1.43 | Y+    | A1/41        | -1.39 |
| Y-    | A1/46        | -2.08 | Y-    | A1/37        | -1.53 | Y-    | A1/46        | -1.43 | Y-    | A1/43        | -1.39 |
| 237   | A1/1         | -2.28 | 238   | A1/1         | -1.41 | 239   | A1/1         | -1.09 | 240   | A1/1         | -1.12 |
|       | A1/2         | -2.27 |       | A1/2         | -1.40 |       | A1/2         | -1.09 |       | A1/2         | -1.11 |
|       | A1/3         | -2.29 |       | A1/3         | -1.41 |       | A1/3         | -1.09 |       | A1/3         | -1.12 |
|       | A1/4         | -2.27 |       | A1/4         | -1.40 |       | A1/4         | -1.09 |       | A1/4         | -1.11 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/5         | -2.26 |       | A1/5         | -1.39 |       | A1/5         | -1.08 |       | A1/5         | -1.11 |
|       | A1/6         | -2.30 |       | A1/6         | -1.42 |       | A1/6         | -1.10 |       | A1/6         | -1.13 |
|       | A1/7         | -2.29 |       | A1/7         | -1.41 |       | A1/7         | -1.10 |       | A1/7         | -1.13 |
|       | A1/8         | -2.28 |       | A1/8         | -1.40 |       | A1/8         | -1.11 |       | A1/8         | -1.14 |
|       | A1/9         | -2.28 |       | A1/9         | -1.41 |       | A1/9         | -1.09 |       | A1/9         | -1.12 |
|       | A1/10        | -2.27 |       | A1/10        | -1.40 |       | A1/10        | -1.09 |       | A1/10        | -1.11 |
|       | A1/11        | -2.25 |       | A1/11        | -1.38 |       | A1/11        | -1.08 |       | A1/11        | -1.11 |
|       | A1/12        | -2.27 |       | A1/12        | -1.40 |       | A1/12        | -1.07 |       | A1/12        | -1.10 |
|       | A1/13        | -2.26 |       | A1/13        | -1.39 |       | A1/13        | -1.07 |       | A1/13        | -1.10 |
|       | A1/14        | -2.23 |       | A1/14        | -1.37 |       | A1/14        | -1.06 |       | A1/14        | -1.08 |
| X+    | A1/20        | -1.60 | X+    | A1/20        | -0.99 | X+    | A1/20        | -0.77 | X+    | A1/20        | -0.79 |
| X-    | A1/27        | -1.60 | X-    | A1/27        | -0.99 | X-    | A1/27        | -0.77 | X-    | A1/27        | -0.79 |
| Y+    | A1/41        | -1.60 | Y+    | A1/41        | -0.99 | Y+    | A1/41        | -0.77 | Y+    | A1/41        | -0.79 |
| Y-    | A1/43        | -1.60 | Y-    | A1/43        | -0.99 | Y-    | A1/43        | -0.77 | Y-    | A1/43        | -0.79 |
| 241   | A1/1         | -1.16 | 242   | A1/1         | -1.42 | 243   | A1/1         | -2.29 | 244   | A1/1         | -2.00 |
|       | A1/2         | -1.15 |       | A1/2         | -1.41 |       | A1/2         | -2.28 |       | A1/2         | -1.99 |
|       | A1/3         | -1.16 |       | A1/3         | -1.42 |       | A1/3         | -2.29 |       | A1/3         | -1.99 |
|       | A1/4         | -1.15 |       | A1/4         | -1.41 |       | A1/4         | -2.28 |       | A1/4         | -1.99 |
|       | A1/5         | -1.15 |       | A1/5         | -1.39 |       | A1/5         | -2.26 |       | A1/5         | -1.98 |
|       | A1/6         | -1.17 |       | A1/6         | -1.42 |       | A1/6         | -2.31 |       | A1/6         | -2.01 |
|       | A1/7         | -1.17 |       | A1/7         | -1.42 |       | A1/7         | -2.29 |       | A1/7         | -2.00 |
|       | A1/8         | -1.18 |       | A1/8         | -1.41 |       | A1/8         | -2.29 |       | A1/8         | -2.00 |
|       | A1/9         | -1.15 |       | A1/9         | -1.42 |       | A1/9         | -2.30 |       | A1/9         | -2.00 |
|       | A1/10        | -1.15 |       | A1/10        | -1.41 |       | A1/10        | -2.29 |       | A1/10        | -1.99 |
|       | A1/11        | -1.14 |       | A1/11        | -1.40 |       | A1/11        | -2.27 |       | A1/11        | -1.98 |
|       | A1/12        | -1.14 |       | A1/12        | -1.41 |       | A1/12        | -2.28 |       | A1/12        | -1.98 |
|       | A1/13        | -1.13 |       | A1/13        | -1.40 |       | A1/13        | -2.27 |       | A1/13        | -1.98 |
|       | A1/14        | -1.11 |       | A1/14        | -1.38 |       | A1/14        | -2.25 |       | A1/14        | -1.96 |
| X+    | A1/20        | -0.81 | X+    | A1/20        | -1.00 | X+    | A1/20        | -1.61 | X+    | A1/20        | -1.40 |
| X-    | A1/27        | -0.81 | X-    | A1/27        | -1.00 | X-    | A1/27        | -1.61 | X-    | A1/27        | -1.40 |
| Y+    | A1/41        | -0.81 | Y+    | A1/34        | -1.00 | Y+    | A1/34        | -1.61 | Y+    | A1/34        | -1.40 |
| Y-    | A1/43        | -0.81 | Y-    | A1/36        | -1.00 | Y-    | A1/36        | -1.61 | Y-    | A1/36        | -1.40 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 245   | A1/1         | -2.05 | 246   | A1/1         | -1.16 | 247   | A1/1         | -1.12 | 248   | A1/1         | -1.09 |
|       | A1/2         | -2.05 |       | A1/2         | -1.16 |       | A1/2         | -1.12 |       | A1/2         | -1.09 |
|       | A1/3         | -2.05 |       | A1/3         | -1.16 |       | A1/3         | -1.12 |       | A1/3         | -1.09 |
|       | A1/4         | -2.05 |       | A1/4         | -1.16 |       | A1/4         | -1.12 |       | A1/4         | -1.09 |
|       | A1/5         | -2.04 |       | A1/5         | -1.15 |       | A1/5         | -1.11 |       | A1/5         | -1.08 |
|       | A1/6         | -2.06 |       | A1/6         | -1.18 |       | A1/6         | -1.14 |       | A1/6         | -1.10 |
|       | A1/7         | -2.05 |       | A1/7         | -1.17 |       | A1/7         | -1.13 |       | A1/7         | -1.10 |
|       | A1/8         | -2.05 |       | A1/8         | -1.18 |       | A1/8         | -1.14 |       | A1/8         | -1.11 |
|       | A1/9         | -2.05 |       | A1/9         | -1.16 |       | A1/9         | -1.12 |       | A1/9         | -1.09 |
|       | A1/10        | -2.05 |       | A1/10        | -1.16 |       | A1/10        | -1.12 |       | A1/10        | -1.09 |
|       | A1/11        | -2.04 |       | A1/11        | -1.15 |       | A1/11        | -1.11 |       | A1/11        | -1.08 |
|       | A1/12        | -2.04 |       | A1/12        | -1.14 |       | A1/12        | -1.10 |       | A1/12        | -1.08 |
|       | A1/13        | -2.04 |       | A1/13        | -1.14 |       | A1/13        | -1.10 |       | A1/13        | -1.07 |
|       | A1/14        | -2.02 |       | A1/14        | -1.12 |       | A1/14        | -1.08 |       | A1/14        | -1.06 |
| X+    | A1/21        | -1.43 | X+    | A1/20        | -0.82 | X+    | A1/20        | -0.79 | X+    | A1/20        | -0.77 |
| X-    | A1/30        | -1.43 | X-    | A1/27        | -0.82 | X-    | A1/27        | -0.79 | X-    | A1/27        | -0.77 |
| Y+    | A1/31        | -1.43 | Y+    | A1/34        | -0.82 | Y+    | A1/34        | -0.79 | Y+    | A1/34        | -0.77 |
| Y-    | A1/37        | -1.43 | Y-    | A1/36        | -0.82 | Y-    | A1/36        | -0.79 | Y-    | A1/36        | -0.77 |
| 283   | A1/1         | -4.66 | 284   | A1/1         | -4.56 | 285   | A1/1         | -4.59 | 286   | A1/1         | -4.09 |
|       | A1/2         | -4.61 |       | A1/2         | -4.51 |       | A1/2         | -4.54 |       | A1/2         | -4.05 |
|       | A1/3         | -4.65 |       | A1/3         | -4.55 |       | A1/3         | -4.58 |       | A1/3         | -4.08 |
|       | A1/4         | -4.60 |       | A1/4         | -4.50 |       | A1/4         | -4.53 |       | A1/4         | -4.04 |
|       | A1/5         | -4.51 |       | A1/5         | -4.41 |       | A1/5         | -4.44 |       | A1/5         | -3.97 |
|       | A1/6         | -4.53 |       | A1/6         | -4.44 |       | A1/6         | -4.48 |       | A1/6         | -4.01 |
|       | A1/7         | -4.47 |       | A1/7         | -4.38 |       | A1/7         | -4.42 |       | A1/7         | -3.97 |
|       | A1/8         | -4.30 |       | A1/8         | -4.22 |       | A1/8         | -4.26 |       | A1/8         | -3.86 |
|       | A1/9         | -4.67 |       | A1/9         | -4.57 |       | A1/9         | -4.60 |       | A1/9         | -4.10 |
|       | A1/10        | -4.62 |       | A1/10        | -4.52 |       | A1/10        | -4.54 |       | A1/10        | -4.06 |
|       | A1/11        | -4.55 |       | A1/11        | -4.44 |       | A1/11        | -4.47 |       | A1/11        | -4.00 |
|       | A1/12        | -4.81 |       | A1/12        | -4.69 |       | A1/12        | -4.71 |       | A1/12        | -4.17 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/13        | -4.75 |       | A1/13        | -4.64 |       | A1/13        | -4.66 |       | A1/13        | -4.13 |
|       | A1/14        | -4.77 |       | A1/14        | -4.65 |       | A1/14        | -4.66 |       | A1/14        | -4.12 |
| X+    | A1/15        | -3.33 | X+    | A1/15        | -3.25 | X+    | A1/15        | -3.26 | X+    | A1/15        | -2.92 |
| X-    | A1/24        | -3.33 | X-    | A1/24        | -3.25 | X-    | A1/24        | -3.26 | X-    | A1/24        | -2.92 |
| Y+    | A1/31        | -3.37 | Y+    | A1/31        | -3.29 | Y+    | A1/31        | -3.29 | Y+    | A1/31        | -2.94 |
| Y-    | A1/37        | -3.37 | Y-    | A1/37        | -3.29 | Y-    | A1/37        | -3.29 | Y-    | A1/37        | -2.94 |
| 287   | A1/1         | -6.35 | 288   | A1/1         | -4.56 | 289   | A1/1         | -3.79 | 290   | A1/1         | -3.66 |
|       | A1/2         | -6.29 |       | A1/2         | -4.52 |       | A1/2         | -3.76 |       | A1/2         | -3.62 |
|       | A1/3         | -6.33 |       | A1/3         | -4.55 |       | A1/3         | -3.78 |       | A1/3         | -3.65 |
|       | A1/4         | -6.27 |       | A1/4         | -4.52 |       | A1/4         | -3.76 |       | A1/4         | -3.61 |
|       | A1/5         | -6.18 |       | A1/5         | -4.46 |       | A1/5         | -3.72 |       | A1/5         | -3.55 |
|       | A1/6         | -6.24 |       | A1/6         | -4.50 |       | A1/6         | -3.75 |       | A1/6         | -3.65 |
|       | A1/7         | -6.19 |       | A1/7         | -4.47 |       | A1/7         | -3.72 |       | A1/7         | -3.62 |
|       | A1/8         | -6.03 |       | A1/8         | -4.38 |       | A1/8         | -3.66 |       | A1/8         | -3.56 |
|       | A1/9         | -6.36 |       | A1/9         | -4.56 |       | A1/9         | -3.79 |       | A1/9         | -3.67 |
|       | A1/10        | -6.30 |       | A1/10        | -4.53 |       | A1/10        | -3.77 |       | A1/10        | -3.63 |
|       | A1/11        | -6.22 |       | A1/11        | -4.48 |       | A1/11        | -3.73 |       | A1/11        | -3.58 |
|       | A1/12        | -6.45 |       | A1/12        | -4.61 |       | A1/12        | -3.83 |       | A1/12        | -3.66 |
|       | A1/13        | -6.40 |       | A1/13        | -4.58 |       | A1/13        | -3.80 |       | A1/13        | -3.63 |
|       | A1/14        | -6.38 |       | A1/14        | -4.57 |       | A1/14        | -3.79 |       | A1/14        | -3.58 |
| X+    | A1/15        | -4.51 | X+    | A1/15        | -3.21 | X+    | A1/15        | -2.65 | X+    | A1/15        | -2.59 |
| X-    | A1/24        | -4.51 | X-    | A1/24        | -3.21 | X-    | A1/24        | -2.65 | X-    | A1/24        | -2.59 |
| Y+    | A1/31        | -4.54 | Y+    | A1/31        | -3.22 | Y+    | A1/31        | -2.66 | Y+    | A1/31        | -2.59 |
| Y-    | A1/37        | -4.54 | Y-    | A1/37        | -3.22 | Y-    | A1/37        | -2.66 | Y-    | A1/37        | -2.59 |
| 291   | A1/1         | -5.21 | 292   | A1/1         | -2.96 | 293   | A1/1         | -1.86 | 294   | A1/1         | -3.50 |
|       | A1/2         | -5.17 |       | A1/2         | -2.95 |       | A1/2         | -1.87 |       | A1/2         | -3.46 |
|       | A1/3         | -5.20 |       | A1/3         | -2.96 |       | A1/3         | -1.87 |       | A1/3         | -3.49 |
|       | A1/4         | -5.16 |       | A1/4         | -2.95 |       | A1/4         | -1.87 |       | A1/4         | -3.45 |
|       | A1/5         | -5.09 |       | A1/5         | -2.94 |       | A1/5         | -1.88 |       | A1/5         | -3.40 |
|       | A1/6         | -5.20 |       | A1/6         | -2.96 |       | A1/6         | -1.86 |       | A1/6         | -3.56 |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | A1/7         | -5.16 |       | A1/7         | -2.95 |       | A1/7         | -1.87 |       | A1/7         | -3.53 |
|       | A1/8         | -5.10 |       | A1/8         | -2.94 |       | A1/8         | -1.88 |       | A1/8         | -3.51 |
|       | A1/9         | -5.22 |       | A1/9         | -2.96 |       | A1/9         | -1.86 |       | A1/9         | -3.51 |
|       | A1/10        | -5.18 |       | A1/10        | -2.96 |       | A1/10        | -1.87 |       | A1/10        | -3.47 |
|       | A1/11        | -5.12 |       | A1/11        | -2.95 |       | A1/11        | -1.88 |       | A1/11        | -3.43 |
|       | A1/12        | -5.21 |       | A1/12        | -2.96 |       | A1/12        | -1.86 |       | A1/12        | -3.43 |
|       | A1/13        | -5.17 |       | A1/13        | -2.96 |       | A1/13        | -1.87 |       | A1/13        | -3.40 |
|       | A1/14        | -5.12 |       | A1/14        | -2.95 |       | A1/14        | -1.88 |       | A1/14        | -3.30 |
| X+    | A1/15        | -3.67 | X+    | A1/15        | -2.06 | X+    | A1/21        | -1.27 | X+    | A1/20        | -2.50 |
| X-    | A1/24        | -3.67 | X-    | A1/24        | -2.06 | X-    | A1/30        | -1.27 | X-    | A1/27        | -2.50 |
| Y+    | A1/31        | -3.67 | Y+    | A1/31        | -2.06 | Y+    | A1/40        | -1.27 | Y+    | A1/34        | -2.52 |
| Y-    | A1/37        | -3.67 | Y-    | A1/37        | -2.06 | Y-    | A1/46        | -1.27 | Y-    | A1/36        | -2.52 |
| 295   | A1/1         | -5.57 | 296   | A1/1         | -4.18 | 297   | A1/1         | -3.58 | 298   | A1/1         | -3.53 |
|       | A1/2         | -5.52 |       | A1/2         | -4.15 |       | A1/2         | -3.56 |       | A1/2         | -3.49 |
|       | A1/3         | -5.56 |       | A1/3         | -4.17 |       | A1/3         | -3.58 |       | A1/3         | -3.52 |
|       | A1/4         | -5.51 |       | A1/4         | -4.14 |       | A1/4         | -3.55 |       | A1/4         | -3.48 |
|       | A1/5         | -5.43 |       | A1/5         | -4.09 |       | A1/5         | -3.51 |       | A1/5         | -3.41 |
|       | A1/6         | -5.65 |       | A1/6         | -4.22 |       | A1/6         | -3.61 |       | A1/6         | -3.65 |
|       | A1/7         | -5.60 |       | A1/7         | -4.19 |       | A1/7         | -3.58 |       | A1/7         | -3.61 |
|       | A1/8         | -5.58 |       | A1/8         | -4.17 |       | A1/8         | -3.56 |       | A1/8         | -3.63 |
|       | A1/9         | -5.58 |       | A1/9         | -4.18 |       | A1/9         | -3.58 |       | A1/9         | -3.54 |
|       | A1/10        | -5.53 |       | A1/10        | -4.15 |       | A1/10        | -3.56 |       | A1/10        | -3.50 |
|       | A1/11        | -5.47 |       | A1/11        | -4.11 |       | A1/11        | -3.52 |       | A1/11        | -3.45 |
|       | A1/12        | -5.48 |       | A1/12        | -4.13 |       | A1/12        | -3.55 |       | A1/12        | -3.41 |
|       | A1/13        | -5.43 |       | A1/13        | -4.10 |       | A1/13        | -3.53 |       | A1/13        | -3.37 |
|       | A1/14        | -5.30 |       | A1/14        | -4.03 |       | A1/14        | -3.48 |       | A1/14        | -3.22 |
| X+    | A1/20        | -3.95 | X+    | A1/20        | -2.93 | X+    | A1/18        | -2.49 | X+    | A1/20        | -2.52 |
| X-    | A1/27        | -3.95 | X-    | A1/27        | -2.93 | X-    | A1/25        | -2.49 | X-    | A1/27        | -2.52 |
| Y+    | A1/34        | -3.98 | Y+    | A1/34        | -2.95 | Y+    | A1/34        | -2.51 | Y+    | A1/34        | -2.56 |
| Y-    | A1/36        | -3.98 | Y-    | A1/36        | -2.95 | Y-    | A1/36        | -2.51 | Y-    | A1/36        | -2.56 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLU

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz  | Nod3d | Combinazione | Fz  |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-----|-------|--------------|-----|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t) | N.ro  | N.ro         | (t) |
| 299   | A1/1         | -3.57 | 300   | A1/1         | -3.69 |       |              |     |       |              |     |
|       | A1/2         | -3.52 |       | A1/2         | -3.65 |       |              |     |       |              |     |
|       | A1/3         | -3.56 |       | A1/3         | -3.69 |       |              |     |       |              |     |
|       | A1/4         | -3.52 |       | A1/4         | -3.64 |       |              |     |       |              |     |
|       | A1/5         | -3.44 |       | A1/5         | -3.56 |       |              |     |       |              |     |
|       | A1/6         | -3.67 |       | A1/6         | -3.78 |       |              |     |       |              |     |
|       | A1/7         | -3.63 |       | A1/7         | -3.73 |       |              |     |       |              |     |
|       | A1/8         | -3.63 |       | A1/8         | -3.72 |       |              |     |       |              |     |
|       | A1/9         | -3.58 |       | A1/9         | -3.70 |       |              |     |       |              |     |
|       | A1/10        | -3.53 |       | A1/10        | -3.65 |       |              |     |       |              |     |
|       | A1/11        | -3.47 |       | A1/11        | -3.59 |       |              |     |       |              |     |
|       | A1/12        | -3.46 |       | A1/12        | -3.60 |       |              |     |       |              |     |
|       | A1/13        | -3.42 |       | A1/13        | -3.55 |       |              |     |       |              |     |
|       | A1/14        | -3.28 |       | A1/14        | -3.41 |       |              |     |       |              |     |
| X+    | A1/20        | -2.53 | X+    | A1/20        | -2.61 |       |              |     |       |              |     |
| X-    | A1/27        | -2.53 | X-    | A1/27        | -2.61 |       |              |     |       |              |     |
| Y+    | A1/34        | -2.57 | Y+    | A1/34        | -2.64 |       |              |     |       |              |     |
| Y-    | A1/36        | -2.57 | Y-    | A1/36        | -2.64 |       |              |     |       |              |     |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 1     | SLD/1        | -2.03 | 2     | SLD/1        | -4.56 | 3     | SLD/1        | -2.18 | 4     | SLD/1        | -3.14 |
|       | SLD/2        | -2.01 |       | SLD/2        | -4.50 |       | SLD/2        | -2.17 |       | SLD/2        | -3.13 |
|       | SLD/3        | -2.03 |       | SLD/3        | -4.56 |       | SLD/3        | -2.18 |       | SLD/3        | -3.14 |
|       | SLD/4        | -2.01 |       | SLD/4        | -4.50 |       | SLD/4        | -2.17 |       | SLD/4        | -3.13 |
|       | SLD/5        | -1.97 |       | SLD/5        | -4.42 |       | SLD/5        | -2.14 |       | SLD/5        | -3.12 |
|       | SLD/6        | -1.98 |       | SLD/6        | -4.47 |       | SLD/6        | -2.17 |       | SLD/6        | -3.14 |
|       | SLD/7        | -1.96 |       | SLD/7        | -4.41 |       | SLD/7        | -2.16 |       | SLD/7        | -3.13 |
|       | SLD/8        | -1.89 |       | SLD/8        | -4.27 |       | SLD/8        | -2.12 |       | SLD/8        | -3.11 |
|       | SLD/9        | -2.03 |       | SLD/9        | -4.56 |       | SLD/9        | -2.19 |       | SLD/9        | -3.14 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/10       | -2.01 |       | SLD/10       | -4.50 |       | SLD/10       | -2.17 |       | SLD/10       | -3.13 |
|       | SLD/11       | -1.97 |       | SLD/11       | -4.42 |       | SLD/11       | -2.14 |       | SLD/11       | -3.12 |
|       | SLD/12       | -2.08 |       | SLD/12       | -4.65 |       | SLD/12       | -2.20 |       | SLD/12       | -3.15 |
|       | SLD/13       | -2.06 |       | SLD/13       | -4.60 |       | SLD/13       | -2.18 |       | SLD/13       | -3.14 |
|       | SLD/14       | -2.06 |       | SLD/14       | -4.58 |       | SLD/14       | -2.16 |       | SLD/14       | -3.13 |
| X+    | SLD/15       | -1.44 | X+    | SLD/15       | -3.21 | X+    | SLD/21       | -1.54 | X+    | SLD/21       | -2.15 |
| X-    | SLD/24       | -1.44 | X-    | SLD/24       | -3.21 | X-    | SLD/30       | -1.54 | X-    | SLD/30       | -2.15 |
| Y+    | SLD/31       | -1.45 | Y+    | SLD/31       | -3.22 | Y+    | SLD/31       | -1.54 | Y+    | SLD/31       | -2.15 |
| Y-    | SLD/37       | -1.45 | Y-    | SLD/37       | -3.22 | Y-    | SLD/37       | -1.54 | Y-    | SLD/37       | -2.15 |
| 5     | SLD/1        | -2.01 | 6     | SLD/1        | -2.17 | 7     | SLD/1        | -1.08 | 8     | SLD/1        | -0.61 |
|       | SLD/2        | -1.99 |       | SLD/2        | -2.15 |       | SLD/2        | -1.08 |       | SLD/2        | -0.61 |
|       | SLD/3        | -2.01 |       | SLD/3        | -2.17 |       | SLD/3        | -1.08 |       | SLD/3        | -0.61 |
|       | SLD/4        | -1.99 |       | SLD/4        | -2.15 |       | SLD/4        | -1.08 |       | SLD/4        | -0.61 |
|       | SLD/5        | -1.95 |       | SLD/5        | -2.12 |       | SLD/5        | -1.07 |       | SLD/5        | -0.60 |
|       | SLD/6        | -1.96 |       | SLD/6        | -2.16 |       | SLD/6        | -1.09 |       | SLD/6        | -0.62 |
|       | SLD/7        | -1.94 |       | SLD/7        | -2.14 |       | SLD/7        | -1.09 |       | SLD/7        | -0.62 |
|       | SLD/8        | -1.87 |       | SLD/8        | -2.11 |       | SLD/8        | -1.09 |       | SLD/8        | -0.62 |
|       | SLD/9        | -2.01 |       | SLD/9        | -2.16 |       | SLD/9        | -1.08 |       | SLD/9        | -0.61 |
|       | SLD/10       | -1.98 |       | SLD/10       | -2.15 |       | SLD/10       | -1.08 |       | SLD/10       | -0.61 |
|       | SLD/11       | -1.95 |       | SLD/11       | -2.12 |       | SLD/11       | -1.07 |       | SLD/11       | -0.60 |
|       | SLD/12       | -2.06 |       | SLD/12       | -2.17 |       | SLD/12       | -1.06 |       | SLD/12       | -0.60 |
|       | SLD/13       | -2.04 |       | SLD/13       | -2.16 |       | SLD/13       | -1.06 |       | SLD/13       | -0.59 |
|       | SLD/14       | -2.03 |       | SLD/14       | -2.13 |       | SLD/14       | -1.05 |       | SLD/14       | -0.58 |
| X+    | SLD/15       | -1.41 | X+    | SLD/15       | -1.52 | X+    | SLD/20       | -0.76 | X+    | SLD/20       | -0.43 |
| X-    | SLD/24       | -1.41 | X-    | SLD/24       | -1.52 | X-    | SLD/27       | -0.76 | X-    | SLD/27       | -0.43 |
| Y+    | SLD/40       | -1.41 | Y+    | SLD/40       | -1.52 | Y+    | SLD/34       | -0.76 | Y+    | SLD/41       | -0.43 |
| Y-    | SLD/46       | -1.41 | Y-    | SLD/46       | -1.52 | Y-    | SLD/36       | -0.76 | Y-    | SLD/43       | -0.43 |
| 9     | SLD/1        | -0.61 | 11    | SLD/1        | -2.96 | 12    | SLD/1        | -3.35 | 13    | SLD/1        | -3.26 |
|       | SLD/2        | -0.61 |       | SLD/2        | -2.93 |       | SLD/2        | -3.31 |       | SLD/2        | -3.24 |
|       | SLD/3        | -0.61 |       | SLD/3        | -2.96 |       | SLD/3        | -3.35 |       | SLD/3        | -3.26 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/4        | -0.61 |       | SLD/4        | -2.93 |       | SLD/4        | -3.31 |       | SLD/4        | -3.23 |
|       | SLD/5        | -0.60 |       | SLD/5        | -2.88 |       | SLD/5        | -3.25 |       | SLD/5        | -3.19 |
|       | SLD/6        | -0.62 |       | SLD/6        | -2.89 |       | SLD/6        | -3.27 |       | SLD/6        | -3.25 |
|       | SLD/7        | -0.62 |       | SLD/7        | -2.86 |       | SLD/7        | -3.23 |       | SLD/7        | -3.22 |
|       | SLD/8        | -0.62 |       | SLD/8        | -2.76 |       | SLD/8        | -3.12 |       | SLD/8        | -3.17 |
|       | SLD/9        | -0.61 |       | SLD/9        | -2.97 |       | SLD/9        | -3.35 |       | SLD/9        | -3.26 |
|       | SLD/10       | -0.61 |       | SLD/10       | -2.93 |       | SLD/10       | -3.31 |       | SLD/10       | -3.24 |
|       | SLD/11       | -0.61 |       | SLD/11       | -2.88 |       | SLD/11       | -3.25 |       | SLD/11       | -3.20 |
|       | SLD/12       | -0.60 |       | SLD/12       | -3.04 |       | SLD/12       | -3.43 |       | SLD/12       | -3.28 |
|       | SLD/13       | -0.60 |       | SLD/13       | -3.01 |       | SLD/13       | -3.39 |       | SLD/13       | -3.25 |
|       | SLD/14       | -0.59 |       | SLD/14       | -3.01 |       | SLD/14       | -3.39 |       | SLD/14       | -3.23 |
| X+    | SLD/20       | -0.43 | X+    | SLD/15       | -2.10 | X+    | SLD/15       | -2.35 | X+    | SLD/21       | -2.30 |
| X-    | SLD/27       | -0.43 | X-    | SLD/24       | -2.10 | X-    | SLD/24       | -2.35 | X-    | SLD/30       | -2.30 |
| Y+    | SLD/34       | -0.43 | Y+    | SLD/31       | -2.11 | Y+    | SLD/40       | -2.35 | Y+    | SLD/31       | -2.30 |
| Y-    | SLD/36       | -0.43 | Y-    | SLD/37       | -2.11 | Y-    | SLD/46       | -2.35 | Y-    | SLD/37       | -2.30 |
| 14    | SLD/1        | -2.75 | 15    | SLD/1        | -1.30 | 16    | SLD/1        | -2.75 | 17    | SLD/1        | -3.70 |
|       | SLD/2        | -2.74 |       | SLD/2        | -1.30 |       | SLD/2        | -2.74 |       | SLD/2        | -3.67 |
|       | SLD/3        | -2.75 |       | SLD/3        | -1.30 |       | SLD/3        | -2.74 |       | SLD/3        | -3.70 |
|       | SLD/4        | -2.74 |       | SLD/4        | -1.30 |       | SLD/4        | -2.73 |       | SLD/4        | -3.67 |
|       | SLD/5        | -2.72 |       | SLD/5        | -1.29 |       | SLD/5        | -2.71 |       | SLD/5        | -3.62 |
|       | SLD/6        | -2.80 |       | SLD/6        | -1.32 |       | SLD/6        | -2.80 |       | SLD/6        | -3.68 |
|       | SLD/7        | -2.79 |       | SLD/7        | -1.32 |       | SLD/7        | -2.78 |       | SLD/7        | -3.65 |
|       | SLD/8        | -2.80 |       | SLD/8        | -1.32 |       | SLD/8        | -2.80 |       | SLD/8        | -3.60 |
|       | SLD/9        | -2.75 |       | SLD/9        | -1.30 |       | SLD/9        | -2.75 |       | SLD/9        | -3.69 |
|       | SLD/10       | -2.73 |       | SLD/10       | -1.30 |       | SLD/10       | -2.74 |       | SLD/10       | -3.66 |
|       | SLD/11       | -2.71 |       | SLD/11       | -1.29 |       | SLD/11       | -2.72 |       | SLD/11       | -3.62 |
|       | SLD/12       | -2.69 |       | SLD/12       | -1.28 |       | SLD/12       | -2.70 |       | SLD/12       | -3.71 |
|       | SLD/13       | -2.68 |       | SLD/13       | -1.28 |       | SLD/13       | -2.68 |       | SLD/13       | -3.68 |
|       | SLD/14       | -2.62 |       | SLD/14       | -1.26 |       | SLD/14       | -2.63 |       | SLD/14       | -3.64 |
| X+    | SLD/20       | -1.93 | X+    | SLD/20       | -0.92 | X+    | SLD/20       | -1.94 | X+    | SLD/15       | -2.59 |
| X-    | SLD/27       | -1.93 | X-    | SLD/27       | -0.92 | X-    | SLD/27       | -1.94 | X-    | SLD/24       | -2.59 |
| Y+    | SLD/41       | -1.93 | Y+    | SLD/34       | -0.92 | Y+    | SLD/34       | -1.95 | Y+    | SLD/40       | -2.59 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | Y- SLD/43    | -1.93 |       | Y- SLD/36    | -0.92 |       | Y- SLD/36    | -1.95 |       | Y- SLD/46    | -2.59 |
| 18    | SLD/1        | -2.40 | 19    | SLD/1        | -4.63 | 20    | SLD/1        | -1.75 | 21    | SLD/1        | -3.73 |
|       | SLD/2        | -2.37 |       | SLD/2        | -4.58 |       | SLD/2        | -1.73 |       | SLD/2        | -3.68 |
|       | SLD/3        | -2.39 |       | SLD/3        | -4.63 |       | SLD/3        | -1.75 |       | SLD/3        | -3.73 |
|       | SLD/4        | -2.36 |       | SLD/4        | -4.57 |       | SLD/4        | -1.73 |       | SLD/4        | -3.68 |
|       | SLD/5        | -2.32 |       | SLD/5        | -4.48 |       | SLD/5        | -1.69 |       | SLD/5        | -3.59 |
|       | SLD/6        | -2.32 |       | SLD/6        | -4.53 |       | SLD/6        | -1.82 |       | SLD/6        | -3.80 |
|       | SLD/7        | -2.29 |       | SLD/7        | -4.47 |       | SLD/7        | -1.80 |       | SLD/7        | -3.75 |
|       | SLD/8        | -2.20 |       | SLD/8        | -4.32 |       | SLD/8        | -1.82 |       | SLD/8        | -3.72 |
|       | SLD/9        | -2.40 |       | SLD/9        | -4.64 |       | SLD/9        | -1.76 |       | SLD/9        | -3.74 |
|       | SLD/10       | -2.37 |       | SLD/10       | -4.58 |       | SLD/10       | -1.74 |       | SLD/10       | -3.68 |
|       | SLD/11       | -2.34 |       | SLD/11       | -4.50 |       | SLD/11       | -1.71 |       | SLD/11       | -3.61 |
|       | SLD/12       | -2.48 |       | SLD/12       | -4.74 |       | SLD/12       | -1.68 |       | SLD/12       | -3.66 |
|       | SLD/13       | -2.45 |       | SLD/13       | -4.69 |       | SLD/13       | -1.66 |       | SLD/13       | -3.60 |
|       | SLD/14       | -2.47 |       | SLD/14       | -4.67 |       | SLD/14       | -1.58 |       | SLD/14       | -3.47 |
|       | X+ SLD/15    | -1.71 |       | X+ SLD/15    | -3.27 |       | X+ SLD/20    | -1.25 |       | X+ SLD/20    | -2.62 |
|       | X- SLD/24    | -1.71 |       | X- SLD/24    | -3.27 |       | X- SLD/27    | -1.25 |       | X- SLD/27    | -2.62 |
|       | Y+ SLD/31    | -1.74 |       | Y+ SLD/31    | -3.30 |       | Y+ SLD/34    | -1.28 |       | Y+ SLD/34    | -2.64 |
|       | Y- SLD/37    | -1.74 |       | Y- SLD/37    | -3.30 |       | Y- SLD/36    | -1.28 |       | Y- SLD/36    | -2.64 |
| 22    | SLD/1        | -4.69 | 23    | SLD/1        | -5.02 | 24    | SLD/1        | -5.50 | 25    | SLD/1        | -3.57 |
|       | SLD/2        | -4.63 |       | SLD/2        | -4.96 |       | SLD/2        | -5.43 |       | SLD/2        | -3.54 |
|       | SLD/3        | -4.68 |       | SLD/3        | -5.02 |       | SLD/3        | -5.50 |       | SLD/3        | -3.56 |
|       | SLD/4        | -4.63 |       | SLD/4        | -4.96 |       | SLD/4        | -5.43 |       | SLD/4        | -3.54 |
|       | SLD/5        | -4.54 |       | SLD/5        | -4.87 |       | SLD/5        | -5.33 |       | SLD/5        | -3.51 |
|       | SLD/6        | -4.58 |       | SLD/6        | -4.90 |       | SLD/6        | -5.37 |       | SLD/6        | -3.53 |
|       | SLD/7        | -4.52 |       | SLD/7        | -4.84 |       | SLD/7        | -5.30 |       | SLD/7        | -3.51 |
|       | SLD/8        | -4.36 |       | SLD/8        | -4.67 |       | SLD/8        | -5.12 |       | SLD/8        | -3.45 |
|       | SLD/9        | -4.69 |       | SLD/9        | -5.02 |       | SLD/9        | -5.50 |       | SLD/9        | -3.57 |
|       | SLD/10       | -4.63 |       | SLD/10       | -4.96 |       | SLD/10       | -5.44 |       | SLD/10       | -3.54 |
|       | SLD/11       | -4.55 |       | SLD/11       | -4.88 |       | SLD/11       | -5.34 |       | SLD/11       | -3.51 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/12       | -4.80 |       | SLD/12       | -5.15 |       | SLD/12       | -5.64 |       | SLD/12       | -3.60 |
|       | SLD/13       | -4.75 |       | SLD/13       | -5.09 |       | SLD/13       | -5.58 |       | SLD/13       | -3.58 |
|       | SLD/14       | -4.74 |       | SLD/14       | -5.09 |       | SLD/14       | -5.58 |       | SLD/14       | -3.57 |
| X+    | SLD/15       | -3.32 | X+    | SLD/15       | -3.55 | X+    | SLD/15       | -3.89 | X+    | SLD/21       | -2.49 |
| X-    | SLD/24       | -3.32 | X-    | SLD/24       | -3.55 | X-    | SLD/24       | -3.89 | X-    | SLD/30       | -2.49 |
| Y+    | SLD/31       | -3.35 | Y+    | SLD/31       | -3.58 | Y+    | SLD/31       | -3.92 | Y+    | SLD/31       | -2.50 |
| Y-    | SLD/37       | -3.35 | Y-    | SLD/37       | -3.58 | Y-    | SLD/37       | -3.92 | Y-    | SLD/37       | -2.50 |
| 26    | SLD/1        | -3.40 | 27    | SLD/1        | -3.89 | 28    | SLD/1        | -5.13 | 29    | SLD/1        | -1.55 |
|       | SLD/2        | -3.38 |       | SLD/2        | -3.87 |       | SLD/2        | -5.10 |       | SLD/2        | -1.56 |
|       | SLD/3        | -3.40 |       | SLD/3        | -3.89 |       | SLD/3        | -5.13 |       | SLD/3        | -1.55 |
|       | SLD/4        | -3.38 |       | SLD/4        | -3.87 |       | SLD/4        | -5.09 |       | SLD/4        | -1.56 |
|       | SLD/5        | -3.35 |       | SLD/5        | -3.83 |       | SLD/5        | -5.04 |       | SLD/5        | -1.57 |
|       | SLD/6        | -3.37 |       | SLD/6        | -3.86 |       | SLD/6        | -5.10 |       | SLD/6        | -1.55 |
|       | SLD/7        | -3.36 |       | SLD/7        | -3.84 |       | SLD/7        | -5.07 |       | SLD/7        | -1.56 |
|       | SLD/8        | -3.31 |       | SLD/8        | -3.79 |       | SLD/8        | -4.99 |       | SLD/8        | -1.58 |
|       | SLD/9        | -3.40 |       | SLD/9        | -3.89 |       | SLD/9        | -5.14 |       | SLD/9        | -1.54 |
|       | SLD/10       | -3.38 |       | SLD/10       | -3.87 |       | SLD/10       | -5.10 |       | SLD/10       | -1.55 |
|       | SLD/11       | -3.36 |       | SLD/11       | -3.84 |       | SLD/11       | -5.05 |       | SLD/11       | -1.57 |
|       | SLD/12       | -3.43 |       | SLD/12       | -3.92 |       | SLD/12       | -5.17 |       | SLD/12       | -1.54 |
|       | SLD/13       | -3.41 |       | SLD/13       | -3.90 |       | SLD/13       | -5.13 |       | SLD/13       | -1.55 |
|       | SLD/14       | -3.40 |       | SLD/14       | -3.88 |       | SLD/14       | -5.10 |       | SLD/14       | -1.57 |
| X+    | SLD/21       | -2.37 | X+    | SLD/21       | -2.71 | X+    | SLD/21       | -3.60 | X+    | SLD/21       | -1.05 |
| X-    | SLD/30       | -2.37 | X-    | SLD/30       | -2.71 | X-    | SLD/30       | -3.60 | X-    | SLD/30       | -1.05 |
| Y+    | SLD/31       | -2.38 | Y+    | SLD/31       | -2.72 | Y+    | SLD/31       | -3.61 | Y+    | SLD/40       | -1.05 |
| Y-    | SLD/37       | -2.38 | Y-    | SLD/37       | -2.72 | Y-    | SLD/37       | -3.61 | Y-    | SLD/46       | -1.05 |
| 30    | SLD/1        | -1.65 | 31    | SLD/1        | -2.19 | 32    | SLD/1        | -3.14 | 33    | SLD/1        | -3.35 |
|       | SLD/2        | -1.66 |       | SLD/2        | -2.19 |       | SLD/2        | -3.13 |       | SLD/2        | -3.33 |
|       | SLD/3        | -1.65 |       | SLD/3        | -2.19 |       | SLD/3        | -3.14 |       | SLD/3        | -3.35 |
|       | SLD/4        | -1.66 |       | SLD/4        | -2.19 |       | SLD/4        | -3.13 |       | SLD/4        | -3.32 |
|       | SLD/5        | -1.68 |       | SLD/5        | -2.19 |       | SLD/5        | -3.11 |       | SLD/5        | -3.29 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/6        | -1.66 |       | SLD/6        | -2.21 |       | SLD/6        | -3.19 |       | SLD/6        | -3.37 |
|       | SLD/7        | -1.67 |       | SLD/7        | -2.21 |       | SLD/7        | -3.18 |       | SLD/7        | -3.35 |
|       | SLD/8        | -1.69 |       | SLD/8        | -2.23 |       | SLD/8        | -3.19 |       | SLD/8        | -3.33 |
|       | SLD/9        | -1.65 |       | SLD/9        | -2.19 |       | SLD/9        | -3.15 |       | SLD/9        | -3.35 |
|       | SLD/10       | -1.66 |       | SLD/10       | -2.19 |       | SLD/10       | -3.14 |       | SLD/10       | -3.33 |
|       | SLD/11       | -1.67 |       | SLD/11       | -2.19 |       | SLD/11       | -3.12 |       | SLD/11       | -3.29 |
|       | SLD/12       | -1.64 |       | SLD/12       | -2.17 |       | SLD/12       | -3.09 |       | SLD/12       | -3.33 |
|       | SLD/13       | -1.65 |       | SLD/13       | -2.17 |       | SLD/13       | -3.08 |       | SLD/13       | -3.30 |
|       | SLD/14       | -1.66 |       | SLD/14       | -2.15 |       | SLD/14       | -3.04 |       | SLD/14       | -3.25 |
| X+    | SLD/20       | -1.13 | X+    | SLD/20       | -1.52 | X+    | SLD/20       | -2.20 | X+    | SLD/18       | -2.32 |
| X-    | SLD/27       | -1.13 | X-    | SLD/27       | -1.52 | X-    | SLD/27       | -2.20 | X-    | SLD/25       | -2.32 |
| Y+    | SLD/41       | -1.13 | Y+    | SLD/34       | -1.52 | Y+    | SLD/34       | -2.21 | Y+    | SLD/34       | -2.34 |
| Y-    | SLD/43       | -1.13 | Y-    | SLD/36       | -1.52 | Y-    | SLD/36       | -2.21 | Y-    | SLD/36       | -2.34 |

|    |        |       |    |        |       |    |        |       |    |        |       |
|----|--------|-------|----|--------|-------|----|--------|-------|----|--------|-------|
| 34 | SLD/1  | -3.29 | 35 | SLD/1  | -3.43 | 36 | SLD/1  | -3.68 | 37 | SLD/1  | -3.60 |
|    | SLD/2  | -3.27 |    | SLD/2  | -3.41 |    | SLD/2  | -3.65 |    | SLD/2  | -3.55 |
|    | SLD/3  | -3.29 |    | SLD/3  | -3.43 |    | SLD/3  | -3.67 |    | SLD/3  | -3.59 |
|    | SLD/4  | -3.27 |    | SLD/4  | -3.40 |    | SLD/4  | -3.65 |    | SLD/4  | -3.54 |
|    | SLD/5  | -3.23 |    | SLD/5  | -3.37 |    | SLD/5  | -3.60 |    | SLD/5  | -3.47 |
|    | SLD/6  | -3.31 |    | SLD/6  | -3.45 |    | SLD/6  | -3.71 |    | SLD/6  | -3.67 |
|    | SLD/7  | -3.28 |    | SLD/7  | -3.43 |    | SLD/7  | -3.68 |    | SLD/7  | -3.61 |
|    | SLD/8  | -3.26 |    | SLD/8  | -3.40 |    | SLD/8  | -3.66 |    | SLD/8  | -3.58 |
|    | SLD/9  | -3.29 |    | SLD/9  | -3.43 |    | SLD/9  | -3.68 |    | SLD/9  | -3.60 |
|    | SLD/10 | -3.27 |    | SLD/10 | -3.41 |    | SLD/10 | -3.65 |    | SLD/10 | -3.55 |
|    | SLD/11 | -3.23 |    | SLD/11 | -3.37 |    | SLD/11 | -3.61 |    | SLD/11 | -3.47 |
|    | SLD/12 | -3.27 |    | SLD/12 | -3.41 |    | SLD/12 | -3.64 |    | SLD/12 | -3.52 |
|    | SLD/13 | -3.25 |    | SLD/13 | -3.39 |    | SLD/13 | -3.61 |    | SLD/13 | -3.47 |
|    | SLD/14 | -3.20 |    | SLD/14 | -3.33 |    | SLD/14 | -3.55 |    | SLD/14 | -3.35 |
| X+ | SLD/18 | -2.28 | X+ | SLD/18 | -2.38 | X+ | SLD/20 | -2.56 | X+ | SLD/20 | -2.52 |
| X- | SLD/25 | -2.28 | X- | SLD/25 | -2.38 | X- | SLD/27 | -2.56 | X- | SLD/27 | -2.52 |
| Y+ | SLD/34 | -2.29 | Y+ | SLD/34 | -2.39 | Y+ | SLD/34 | -2.57 | Y+ | SLD/34 | -2.55 |
| Y- | SLD/36 | -2.29 | Y- | SLD/36 | -2.39 | Y- | SLD/36 | -2.57 | Y- | SLD/36 | -2.55 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 38    | SLD/1        | -3.60 | 39    | SLD/1        | -3.70 | 40    | SLD/1        | -3.21 | 41    | SLD/1        | -3.13 |
|       | SLD/2        | -3.55 |       | SLD/2        | -3.64 |       | SLD/2        | -3.19 |       | SLD/2        | -3.08 |
|       | SLD/3        | -3.60 |       | SLD/3        | -3.69 |       | SLD/3        | -3.21 |       | SLD/3        | -3.13 |
|       | SLD/4        | -3.55 |       | SLD/4        | -3.64 |       | SLD/4        | -3.19 |       | SLD/4        | -3.08 |
|       | SLD/5        | -3.47 |       | SLD/5        | -3.56 |       | SLD/5        | -3.15 |       | SLD/5        | -3.01 |
|       | SLD/6        | -3.67 |       | SLD/6        | -3.75 |       | SLD/6        | -3.25 |       | SLD/6        | -3.17 |
|       | SLD/7        | -3.61 |       | SLD/7        | -3.70 |       | SLD/7        | -3.23 |       | SLD/7        | -3.12 |
|       | SLD/8        | -3.58 |       | SLD/8        | -3.66 |       | SLD/8        | -3.21 |       | SLD/8        | -3.08 |
|       | SLD/9        | -3.60 |       | SLD/9        | -3.70 |       | SLD/9        | -3.21 |       | SLD/9        | -3.13 |
|       | SLD/10       | -3.55 |       | SLD/10       | -3.64 |       | SLD/10       | -3.19 |       | SLD/10       | -3.08 |
|       | SLD/11       | -3.48 |       | SLD/11       | -3.56 |       | SLD/11       | -3.15 |       | SLD/11       | -3.01 |
|       | SLD/12       | -3.53 |       | SLD/12       | -3.63 |       | SLD/12       | -3.17 |       | SLD/12       | -3.09 |
|       | SLD/13       | -3.48 |       | SLD/13       | -3.58 |       | SLD/13       | -3.15 |       | SLD/13       | -3.04 |
|       | SLD/14       | -3.36 |       | SLD/14       | -3.46 |       | SLD/14       | -3.08 |       | SLD/14       | -2.94 |
| X+    | SLD/20       | -2.52 | X+    | SLD/20       | -2.58 | X+    | SLD/20       | -2.24 | X+    | SLD/20       | -2.18 |
| X-    | SLD/27       | -2.52 | X-    | SLD/27       | -2.58 | X-    | SLD/27       | -2.24 | X-    | SLD/27       | -2.18 |
| Y+    | SLD/34       | -2.55 | Y+    | SLD/34       | -2.60 | Y+    | SLD/34       | -2.25 | Y+    | SLD/34       | -2.19 |
| Y-    | SLD/36       | -2.55 | Y-    | SLD/36       | -2.60 | Y-    | SLD/36       | -2.25 | Y-    | SLD/36       | -2.19 |
| 42    | SLD/1        | -1.41 | 43    | SLD/1        | -1.35 | 44    | SLD/1        | -1.31 | 45    | SLD/1        | -1.16 |
|       | SLD/2        | -1.41 |       | SLD/2        | -1.35 |       | SLD/2        | -1.31 |       | SLD/2        | -1.16 |
|       | SLD/3        | -1.41 |       | SLD/3        | -1.35 |       | SLD/3        | -1.31 |       | SLD/3        | -1.16 |
|       | SLD/4        | -1.40 |       | SLD/4        | -1.34 |       | SLD/4        | -1.31 |       | SLD/4        | -1.16 |
|       | SLD/5        | -1.40 |       | SLD/5        | -1.34 |       | SLD/5        | -1.30 |       | SLD/5        | -1.15 |
|       | SLD/6        | -1.43 |       | SLD/6        | -1.37 |       | SLD/6        | -1.33 |       | SLD/6        | -1.19 |
|       | SLD/7        | -1.43 |       | SLD/7        | -1.36 |       | SLD/7        | -1.33 |       | SLD/7        | -1.18 |
|       | SLD/8        | -1.43 |       | SLD/8        | -1.37 |       | SLD/8        | -1.33 |       | SLD/8        | -1.19 |
|       | SLD/9        | -1.41 |       | SLD/9        | -1.35 |       | SLD/9        | -1.31 |       | SLD/9        | -1.17 |
|       | SLD/10       | -1.41 |       | SLD/10       | -1.35 |       | SLD/10       | -1.31 |       | SLD/10       | -1.16 |
|       | SLD/11       | -1.40 |       | SLD/11       | -1.34 |       | SLD/11       | -1.31 |       | SLD/11       | -1.15 |
|       | SLD/12       | -1.39 |       | SLD/12       | -1.33 |       | SLD/12       | -1.29 |       | SLD/12       | -1.14 |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/13       | -1.38 |       | SLD/13       | -1.33 |       | SLD/13       | -1.29 |       | SLD/13       | -1.13 |
|       | SLD/14       | -1.36 |       | SLD/14       | -1.31 |       | SLD/14       | -1.27 |       | SLD/14       | -1.11 |
| X+    | SLD/20       | -0.99 | X+    | SLD/20       | -0.95 | X+    | SLD/20       | -0.92 | X+    | SLD/20       | -0.82 |
| X-    | SLD/27       | -0.99 | X-    | SLD/27       | -0.95 | X-    | SLD/27       | -0.92 | X-    | SLD/27       | -0.82 |
| Y+    | SLD/34       | -1.00 | Y+    | SLD/34       | -0.95 | Y+    | SLD/34       | -0.93 | Y+    | SLD/34       | -0.82 |
| Y-    | SLD/36       | -1.00 | Y-    | SLD/36       | -0.95 | Y-    | SLD/36       | -0.93 | Y-    | SLD/36       | -0.82 |
| 46    | SLD/1        | -2.25 | 47    | SLD/1        | -2.17 | 48    | SLD/1        | -2.17 | 49    | SLD/1        | -2.19 |
|       | SLD/2        | -2.24 |       | SLD/2        | -2.17 |       | SLD/2        | -2.16 |       | SLD/2        | -2.18 |
|       | SLD/3        | -2.25 |       | SLD/3        | -2.17 |       | SLD/3        | -2.17 |       | SLD/3        | -2.19 |
|       | SLD/4        | -2.24 |       | SLD/4        | -2.17 |       | SLD/4        | -2.16 |       | SLD/4        | -2.18 |
|       | SLD/5        | -2.23 |       | SLD/5        | -2.16 |       | SLD/5        | -2.15 |       | SLD/5        | -2.17 |
|       | SLD/6        | -2.30 |       | SLD/6        | -2.22 |       | SLD/6        | -2.21 |       | SLD/6        | -2.23 |
|       | SLD/7        | -2.29 |       | SLD/7        | -2.21 |       | SLD/7        | -2.20 |       | SLD/7        | -2.22 |
|       | SLD/8        | -2.31 |       | SLD/8        | -2.23 |       | SLD/8        | -2.22 |       | SLD/8        | -2.24 |
|       | SLD/9        | -2.25 |       | SLD/9        | -2.18 |       | SLD/9        | -2.17 |       | SLD/9        | -2.19 |
|       | SLD/10       | -2.24 |       | SLD/10       | -2.17 |       | SLD/10       | -2.16 |       | SLD/10       | -2.18 |
|       | SLD/11       | -2.23 |       | SLD/11       | -2.16 |       | SLD/11       | -2.16 |       | SLD/11       | -2.17 |
|       | SLD/12       | -2.20 |       | SLD/12       | -2.13 |       | SLD/12       | -2.12 |       | SLD/12       | -2.14 |
|       | SLD/13       | -2.19 |       | SLD/13       | -2.12 |       | SLD/13       | -2.12 |       | SLD/13       | -2.13 |
|       | SLD/14       | -2.15 |       | SLD/14       | -2.08 |       | SLD/14       | -2.08 |       | SLD/14       | -2.10 |
| X+    | SLD/20       | -1.58 | X+    | SLD/20       | -1.53 | X+    | SLD/20       | -1.52 | X+    | SLD/20       | -1.53 |
| X-    | SLD/27       | -1.58 | X-    | SLD/27       | -1.53 | X-    | SLD/27       | -1.52 | X-    | SLD/27       | -1.53 |
| Y+    | SLD/34       | -1.59 | Y+    | SLD/34       | -1.53 | Y+    | SLD/34       | -1.52 | Y+    | SLD/34       | -1.53 |
| Y-    | SLD/36       | -1.59 | Y-    | SLD/36       | -1.53 | Y-    | SLD/36       | -1.52 | Y-    | SLD/36       | -1.53 |
| 50    | SLD/1        | -2.48 | 51    | SLD/1        | -2.41 | 52    | SLD/1        | -2.45 | 53    | SLD/1        | -2.50 |
|       | SLD/2        | -2.47 |       | SLD/2        | -2.40 |       | SLD/2        | -2.43 |       | SLD/2        | -2.48 |
|       | SLD/3        | -2.48 |       | SLD/3        | -2.41 |       | SLD/3        | -2.45 |       | SLD/3        | -2.50 |
|       | SLD/4        | -2.47 |       | SLD/4        | -2.40 |       | SLD/4        | -2.43 |       | SLD/4        | -2.48 |
|       | SLD/5        | -2.44 |       | SLD/5        | -2.37 |       | SLD/5        | -2.40 |       | SLD/5        | -2.45 |
|       | SLD/6        | -2.51 |       | SLD/6        | -2.44 |       | SLD/6        | -2.47 |       | SLD/6        | -2.53 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/7        | -2.49 |       | SLD/7        | -2.42 |       | SLD/7        | -2.45 |       | SLD/7        | -2.51 |
|       | SLD/8        | -2.48 |       | SLD/8        | -2.41 |       | SLD/8        | -2.44 |       | SLD/8        | -2.50 |
|       | SLD/9        | -2.49 |       | SLD/9        | -2.42 |       | SLD/9        | -2.45 |       | SLD/9        | -2.50 |
|       | SLD/10       | -2.47 |       | SLD/10       | -2.40 |       | SLD/10       | -2.43 |       | SLD/10       | -2.48 |
|       | SLD/11       | -2.44 |       | SLD/11       | -2.37 |       | SLD/11       | -2.40 |       | SLD/11       | -2.45 |
|       | SLD/12       | -2.46 |       | SLD/12       | -2.39 |       | SLD/12       | -2.42 |       | SLD/12       | -2.48 |
|       | SLD/13       | -2.44 |       | SLD/13       | -2.37 |       | SLD/13       | -2.40 |       | SLD/13       | -2.46 |
|       | SLD/14       | -2.39 |       | SLD/14       | -2.33 |       | SLD/14       | -2.36 |       | SLD/14       | -2.41 |
| X+    | SLD/20       | -1.73 | X+    | SLD/20       | -1.68 | X+    | SLD/20       | -1.70 | X+    | SLD/20       | -1.74 |
| X-    | SLD/27       | -1.73 | X-    | SLD/27       | -1.68 | X-    | SLD/27       | -1.70 | X-    | SLD/27       | -1.74 |
| Y+    | SLD/34       | -1.74 | Y+    | SLD/34       | -1.69 | Y+    | SLD/34       | -1.70 | Y+    | SLD/34       | -1.74 |
| Y-    | SLD/36       | -1.74 | Y-    | SLD/36       | -1.69 | Y-    | SLD/36       | -1.70 | Y-    | SLD/36       | -1.74 |
| 54    | SLD/1        | -2.02 | 55    | SLD/1        | -3.83 | 56    | SLD/1        | -3.72 | 57    | SLD/1        | -3.77 |
|       | SLD/2        | -1.99 |       | SLD/2        | -3.78 |       | SLD/2        | -3.68 |       | SLD/2        | -3.72 |
|       | SLD/3        | -2.02 |       | SLD/3        | -3.83 |       | SLD/3        | -3.72 |       | SLD/3        | -3.77 |
|       | SLD/4        | -1.99 |       | SLD/4        | -3.78 |       | SLD/4        | -3.68 |       | SLD/4        | -3.72 |
|       | SLD/5        | -1.95 |       | SLD/5        | -3.71 |       | SLD/5        | -3.60 |       | SLD/5        | -3.65 |
|       | SLD/6        | -2.04 |       | SLD/6        | -3.86 |       | SLD/6        | -3.74 |       | SLD/6        | -3.79 |
|       | SLD/7        | -2.01 |       | SLD/7        | -3.81 |       | SLD/7        | -3.70 |       | SLD/7        | -3.74 |
|       | SLD/8        | -1.98 |       | SLD/8        | -3.75 |       | SLD/8        | -3.64 |       | SLD/8        | -3.69 |
|       | SLD/9        | -2.02 |       | SLD/9        | -3.83 |       | SLD/9        | -3.72 |       | SLD/9        | -3.77 |
|       | SLD/10       | -1.99 |       | SLD/10       | -3.78 |       | SLD/10       | -3.68 |       | SLD/10       | -3.72 |
|       | SLD/11       | -1.95 |       | SLD/11       | -3.71 |       | SLD/11       | -3.61 |       | SLD/11       | -3.65 |
|       | SLD/12       | -2.00 |       | SLD/12       | -3.80 |       | SLD/12       | -3.70 |       | SLD/12       | -3.75 |
|       | SLD/13       | -1.97 |       | SLD/13       | -3.75 |       | SLD/13       | -3.65 |       | SLD/13       | -3.70 |
|       | SLD/14       | -1.91 |       | SLD/14       | -3.66 |       | SLD/14       | -3.57 |       | SLD/14       | -3.61 |
| X+    | SLD/18       | -1.41 | X+    | SLD/18       | -2.66 | X+    | SLD/18       | -2.59 | X+    | SLD/18       | -2.61 |
| X-    | SLD/25       | -1.41 | X-    | SLD/25       | -2.66 | X-    | SLD/25       | -2.59 | X-    | SLD/25       | -2.61 |
| Y+    | SLD/34       | -1.42 | Y+    | SLD/34       | -2.68 | Y+    | SLD/34       | -2.60 | Y+    | SLD/34       | -2.62 |
| Y-    | SLD/36       | -1.42 | Y-    | SLD/36       | -2.68 | Y-    | SLD/36       | -2.60 | Y-    | SLD/36       | -2.62 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 58    | SLD/1        | -3.87 | 59    | SLD/1        | -2.37 | 60    | SLD/1        | -2.35 | 61    | SLD/1        | -2.42 |
|       | SLD/2        | -3.81 |       | SLD/2        | -2.33 |       | SLD/2        | -2.31 |       | SLD/2        | -2.38 |
|       | SLD/3        | -3.86 |       | SLD/3        | -2.37 |       | SLD/3        | -2.35 |       | SLD/3        | -2.42 |
|       | SLD/4        | -3.81 |       | SLD/4        | -2.33 |       | SLD/4        | -2.31 |       | SLD/4        | -2.38 |
|       | SLD/5        | -3.73 |       | SLD/5        | -2.28 |       | SLD/5        | -2.26 |       | SLD/5        | -2.33 |
|       | SLD/6        | -3.89 |       | SLD/6        | -2.40 |       | SLD/6        | -2.38 |       | SLD/6        | -2.45 |
|       | SLD/7        | -3.84 |       | SLD/7        | -2.37 |       | SLD/7        | -2.34 |       | SLD/7        | -2.41 |
|       | SLD/8        | -3.78 |       | SLD/8        | -2.34 |       | SLD/8        | -2.31 |       | SLD/8        | -2.38 |
|       | SLD/9        | -3.87 |       | SLD/9        | -2.37 |       | SLD/9        | -2.35 |       | SLD/9        | -2.42 |
|       | SLD/10       | -3.81 |       | SLD/10       | -2.33 |       | SLD/10       | -2.31 |       | SLD/10       | -2.38 |
|       | SLD/11       | -3.73 |       | SLD/11       | -2.28 |       | SLD/11       | -2.26 |       | SLD/11       | -2.33 |
|       | SLD/12       | -3.84 |       | SLD/12       | -2.33 |       | SLD/12       | -2.32 |       | SLD/12       | -2.39 |
|       | SLD/13       | -3.78 |       | SLD/13       | -2.30 |       | SLD/13       | -2.28 |       | SLD/13       | -2.35 |
|       | SLD/14       | -3.68 |       | SLD/14       | -2.22 |       | SLD/14       | -2.21 |       | SLD/14       | -2.27 |
| X+    | SLD/18       | -2.67 | X+    | SLD/20       | -1.65 | X+    | SLD/20       | -1.64 | X+    | SLD/20       | -1.68 |
| X-    | SLD/25       | -2.67 | X-    | SLD/27       | -1.65 | X-    | SLD/27       | -1.64 | X-    | SLD/27       | -1.68 |
| Y+    | SLD/34       | -2.68 | Y+    | SLD/34       | -1.66 | Y+    | SLD/34       | -1.64 | Y+    | SLD/34       | -1.69 |
| Y-    | SLD/36       | -2.68 | Y-    | SLD/36       | -1.66 | Y-    | SLD/36       | -1.64 | Y-    | SLD/36       | -1.69 |
| 62    | SLD/1        | -2.54 | 63    | SLD/1        | -1.31 | 64    | SLD/1        | -1.35 | 65    | SLD/1        | -1.41 |
|       | SLD/2        | -2.50 |       | SLD/2        | -1.31 |       | SLD/2        | -1.34 |       | SLD/2        | -1.40 |
|       | SLD/3        | -2.54 |       | SLD/3        | -1.31 |       | SLD/3        | -1.35 |       | SLD/3        | -1.41 |
|       | SLD/4        | -2.50 |       | SLD/4        | -1.31 |       | SLD/4        | -1.34 |       | SLD/4        | -1.40 |
|       | SLD/5        | -2.44 |       | SLD/5        | -1.30 |       | SLD/5        | -1.34 |       | SLD/5        | -1.40 |
|       | SLD/6        | -2.57 |       | SLD/6        | -1.33 |       | SLD/6        | -1.37 |       | SLD/6        | -1.43 |
|       | SLD/7        | -2.53 |       | SLD/7        | -1.33 |       | SLD/7        | -1.36 |       | SLD/7        | -1.43 |
|       | SLD/8        | -2.48 |       | SLD/8        | -1.33 |       | SLD/8        | -1.37 |       | SLD/8        | -1.43 |
|       | SLD/9        | -2.54 |       | SLD/9        | -1.31 |       | SLD/9        | -1.35 |       | SLD/9        | -1.41 |
|       | SLD/10       | -2.50 |       | SLD/10       | -1.31 |       | SLD/10       | -1.34 |       | SLD/10       | -1.40 |
|       | SLD/11       | -2.44 |       | SLD/11       | -1.30 |       | SLD/11       | -1.33 |       | SLD/11       | -1.39 |
|       | SLD/12       | -2.51 |       | SLD/12       | -1.29 |       | SLD/12       | -1.32 |       | SLD/12       | -1.38 |
|       | SLD/13       | -2.47 |       | SLD/13       | -1.29 |       | SLD/13       | -1.32 |       | SLD/13       | -1.38 |
|       | SLD/14       | -2.39 |       | SLD/14       | -1.27 |       | SLD/14       | -1.30 |       | SLD/14       | -1.35 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | X+ SLD/20    | -1.76 |       | X+ SLD/20    | -0.92 |       | X+ SLD/20    | -0.95 |       | X+ SLD/20    | -0.99 |
|       | X- SLD/27    | -1.76 |       | X- SLD/27    | -0.92 |       | X- SLD/27    | -0.95 |       | X- SLD/27    | -0.99 |
|       | Y+ SLD/34    | -1.76 |       | Y+ SLD/41    | -0.92 |       | Y+ SLD/41    | -0.95 |       | Y+ SLD/41    | -0.99 |
|       | Y- SLD/36    | -1.76 |       | Y- SLD/43    | -0.92 |       | Y- SLD/43    | -0.95 |       | Y- SLD/43    | -0.99 |
| 66    | SLD/1        | -2.20 | 67    | SLD/1        | -2.24 | 68    | SLD/1        | -2.34 | 69    | SLD/1        | -2.28 |
|       | SLD/2        | -2.19 |       | SLD/2        | -2.23 |       | SLD/2        | -2.34 |       | SLD/2        | -2.27 |
|       | SLD/3        | -2.20 |       | SLD/3        | -2.24 |       | SLD/3        | -2.35 |       | SLD/3        | -2.29 |
|       | SLD/4        | -2.19 |       | SLD/4        | -2.23 |       | SLD/4        | -2.34 |       | SLD/4        | -2.28 |
|       | SLD/5        | -2.18 |       | SLD/5        | -2.22 |       | SLD/5        | -2.33 |       | SLD/5        | -2.26 |
|       | SLD/6        | -2.24 |       | SLD/6        | -2.28 |       | SLD/6        | -2.40 |       | SLD/6        | -2.33 |
|       | SLD/7        | -2.23 |       | SLD/7        | -2.28 |       | SLD/7        | -2.39 |       | SLD/7        | -2.32 |
|       | SLD/8        | -2.26 |       | SLD/8        | -2.30 |       | SLD/8        | -2.41 |       | SLD/8        | -2.34 |
|       | SLD/9        | -2.19 |       | SLD/9        | -2.23 |       | SLD/9        | -2.34 |       | SLD/9        | -2.28 |
|       | SLD/10       | -2.19 |       | SLD/10       | -2.23 |       | SLD/10       | -2.33 |       | SLD/10       | -2.27 |
|       | SLD/11       | -2.18 |       | SLD/11       | -2.22 |       | SLD/11       | -2.32 |       | SLD/11       | -2.26 |
|       | SLD/12       | -2.15 |       | SLD/12       | -2.19 |       | SLD/12       | -2.29 |       | SLD/12       | -2.23 |
|       | SLD/13       | -2.14 |       | SLD/13       | -2.18 |       | SLD/13       | -2.28 |       | SLD/13       | -2.22 |
|       | SLD/14       | -2.10 |       | SLD/14       | -2.14 |       | SLD/14       | -2.23 |       | SLD/14       | -2.17 |
|       | X+ SLD/20    | -1.54 |       | X+ SLD/20    | -1.56 |       | X+ SLD/20    | -1.64 |       | X+ SLD/20    | -1.59 |
|       | X- SLD/27    | -1.54 |       | X- SLD/27    | -1.56 |       | X- SLD/27    | -1.64 |       | X- SLD/27    | -1.59 |
|       | Y+ SLD/41    | -1.54 |       | Y+ SLD/41    | -1.57 |       | Y+ SLD/41    | -1.64 |       | Y+ SLD/41    | -1.60 |
|       | Y- SLD/43    | -1.54 |       | Y- SLD/43    | -1.57 |       | Y- SLD/43    | -1.64 |       | Y- SLD/43    | -1.60 |
| 70    | SLD/1        | -2.48 | 71    | SLD/1        | -2.48 | 72    | SLD/1        | -2.56 | 73    | SLD/1        | -2.52 |
|       | SLD/2        | -2.47 |       | SLD/2        | -2.46 |       | SLD/2        | -2.54 |       | SLD/2        | -2.50 |
|       | SLD/3        | -2.48 |       | SLD/3        | -2.48 |       | SLD/3        | -2.56 |       | SLD/3        | -2.52 |
|       | SLD/4        | -2.47 |       | SLD/4        | -2.46 |       | SLD/4        | -2.54 |       | SLD/4        | -2.50 |
|       | SLD/5        | -2.44 |       | SLD/5        | -2.43 |       | SLD/5        | -2.51 |       | SLD/5        | -2.47 |
|       | SLD/6        | -2.51 |       | SLD/6        | -2.50 |       | SLD/6        | -2.59 |       | SLD/6        | -2.55 |
|       | SLD/7        | -2.49 |       | SLD/7        | -2.48 |       | SLD/7        | -2.56 |       | SLD/7        | -2.53 |
|       | SLD/8        | -2.48 |       | SLD/8        | -2.47 |       | SLD/8        | -2.55 |       | SLD/8        | -2.51 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/9        | -2.48 |       | SLD/9        | -2.48 |       | SLD/9        | -2.56 |       | SLD/9        | -2.52 |
|       | SLD/10       | -2.47 |       | SLD/10       | -2.46 |       | SLD/10       | -2.54 |       | SLD/10       | -2.50 |
|       | SLD/11       | -2.44 |       | SLD/11       | -2.43 |       | SLD/11       | -2.51 |       | SLD/11       | -2.47 |
|       | SLD/12       | -2.46 |       | SLD/12       | -2.45 |       | SLD/12       | -2.53 |       | SLD/12       | -2.49 |
|       | SLD/13       | -2.44 |       | SLD/13       | -2.44 |       | SLD/13       | -2.51 |       | SLD/13       | -2.47 |
|       | SLD/14       | -2.39 |       | SLD/14       | -2.39 |       | SLD/14       | -2.46 |       | SLD/14       | -2.42 |
| X+    | SLD/20       | -1.72 | X+    | SLD/20       | -1.72 | X+    | SLD/20       | -1.77 | X+    | SLD/20       | -1.75 |
| X-    | SLD/27       | -1.72 | X-    | SLD/27       | -1.72 | X-    | SLD/27       | -1.77 | X-    | SLD/27       | -1.75 |
| Y+    | SLD/41       | -1.73 | Y+    | SLD/41       | -1.72 | Y+    | SLD/41       | -1.77 | Y+    | SLD/41       | -1.75 |
| Y-    | SLD/43       | -1.73 | Y-    | SLD/43       | -1.72 | Y-    | SLD/43       | -1.77 | Y-    | SLD/43       | -1.75 |
| 74    | SLD/1        | -3.75 | 75    | SLD/1        | -3.68 | 76    | SLD/1        | -3.75 | 77    | SLD/1        | -3.83 |
|       | SLD/2        | -3.70 |       | SLD/2        | -3.63 |       | SLD/2        | -3.70 |       | SLD/2        | -3.77 |
|       | SLD/3        | -3.75 |       | SLD/3        | -3.68 |       | SLD/3        | -3.75 |       | SLD/3        | -3.83 |
|       | SLD/4        | -3.70 |       | SLD/4        | -3.63 |       | SLD/4        | -3.70 |       | SLD/4        | -3.77 |
|       | SLD/5        | -3.63 |       | SLD/5        | -3.56 |       | SLD/5        | -3.63 |       | SLD/5        | -3.69 |
|       | SLD/6        | -3.77 |       | SLD/6        | -3.70 |       | SLD/6        | -3.78 |       | SLD/6        | -3.86 |
|       | SLD/7        | -3.72 |       | SLD/7        | -3.65 |       | SLD/7        | -3.73 |       | SLD/7        | -3.80 |
|       | SLD/8        | -3.66 |       | SLD/8        | -3.59 |       | SLD/8        | -3.67 |       | SLD/8        | -3.74 |
|       | SLD/9        | -3.75 |       | SLD/9        | -3.68 |       | SLD/9        | -3.75 |       | SLD/9        | -3.83 |
|       | SLD/10       | -3.70 |       | SLD/10       | -3.63 |       | SLD/10       | -3.70 |       | SLD/10       | -3.77 |
|       | SLD/11       | -3.62 |       | SLD/11       | -3.56 |       | SLD/11       | -3.63 |       | SLD/11       | -3.69 |
|       | SLD/12       | -3.73 |       | SLD/12       | -3.66 |       | SLD/12       | -3.73 |       | SLD/12       | -3.80 |
|       | SLD/13       | -3.68 |       | SLD/13       | -3.61 |       | SLD/13       | -3.68 |       | SLD/13       | -3.75 |
|       | SLD/14       | -3.59 |       | SLD/14       | -3.52 |       | SLD/14       | -3.59 |       | SLD/14       | -3.65 |
| X+    | SLD/18       | -2.60 | X+    | SLD/18       | -2.54 | X+    | SLD/15       | -2.59 | X+    | SLD/15       | -2.64 |
| X-    | SLD/25       | -2.60 | X-    | SLD/25       | -2.54 | X-    | SLD/24       | -2.59 | X-    | SLD/24       | -2.64 |
| Y+    | SLD/34       | -2.60 | Y+    | SLD/34       | -2.55 | Y+    | SLD/40       | -2.59 | Y+    | SLD/40       | -2.64 |
| Y-    | SLD/36       | -2.60 | Y-    | SLD/36       | -2.55 | Y-    | SLD/46       | -2.59 | Y-    | SLD/46       | -2.64 |
| 78    | SLD/1        | -2.44 | 79    | SLD/1        | -2.38 | 80    | SLD/1        | -2.43 | 81    | SLD/1        | -1.98 |
|       | SLD/2        | -2.40 |       | SLD/2        | -2.35 |       | SLD/2        | -2.39 |       | SLD/2        | -1.95 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/3        | -2.44 |       | SLD/3        | -2.38 |       | SLD/3        | -2.43 |       | SLD/3        | -1.98 |
|       | SLD/4        | -2.40 |       | SLD/4        | -2.35 |       | SLD/4        | -2.39 |       | SLD/4        | -1.95 |
|       | SLD/5        | -2.34 |       | SLD/5        | -2.29 |       | SLD/5        | -2.33 |       | SLD/5        | -1.90 |
|       | SLD/6        | -2.47 |       | SLD/6        | -2.41 |       | SLD/6        | -2.46 |       | SLD/6        | -2.00 |
|       | SLD/7        | -2.43 |       | SLD/7        | -2.38 |       | SLD/7        | -2.42 |       | SLD/7        | -1.97 |
|       | SLD/8        | -2.39 |       | SLD/8        | -2.34 |       | SLD/8        | -2.38 |       | SLD/8        | -1.94 |
|       | SLD/9        | -2.44 |       | SLD/9        | -2.39 |       | SLD/9        | -2.43 |       | SLD/9        | -1.98 |
|       | SLD/10       | -2.40 |       | SLD/10       | -2.35 |       | SLD/10       | -2.39 |       | SLD/10       | -1.95 |
|       | SLD/11       | -2.34 |       | SLD/11       | -2.30 |       | SLD/11       | -2.34 |       | SLD/11       | -1.90 |
|       | SLD/12       | -2.41 |       | SLD/12       | -2.35 |       | SLD/12       | -2.40 |       | SLD/12       | -1.96 |
|       | SLD/13       | -2.37 |       | SLD/13       | -2.32 |       | SLD/13       | -2.36 |       | SLD/13       | -1.93 |
|       | SLD/14       | -2.29 |       | SLD/14       | -2.24 |       | SLD/14       | -2.28 |       | SLD/14       | -1.87 |
| X+    | SLD/20       | -1.69 | X+    | SLD/20       | -1.65 | X+    | SLD/20       | -1.68 | X+    | SLD/15       | -1.37 |
| X-    | SLD/27       | -1.69 | X-    | SLD/27       | -1.65 | X-    | SLD/27       | -1.68 | X-    | SLD/24       | -1.37 |
| Y+    | SLD/34       | -1.69 | Y+    | SLD/34       | -1.65 | Y+    | SLD/34       | -1.68 | Y+    | SLD/40       | -1.37 |
| Y-    | SLD/36       | -1.69 | Y-    | SLD/36       | -1.65 | Y-    | SLD/36       | -1.68 | Y-    | SLD/46       | -1.37 |
| 82    | SLD/1        | -6.12 | 83    | SLD/1        | -5.55 | 84    | SLD/1        | -5.17 | 85    | SLD/1        | -5.11 |
|       | SLD/2        | -6.05 |       | SLD/2        | -5.48 |       | SLD/2        | -5.10 |       | SLD/2        | -5.03 |
|       | SLD/3        | -6.12 |       | SLD/3        | -5.55 |       | SLD/3        | -5.17 |       | SLD/3        | -5.11 |
|       | SLD/4        | -6.05 |       | SLD/4        | -5.48 |       | SLD/4        | -5.10 |       | SLD/4        | -5.03 |
|       | SLD/5        | -5.94 |       | SLD/5        | -5.37 |       | SLD/5        | -4.99 |       | SLD/5        | -4.93 |
|       | SLD/6        | -5.99 |       | SLD/6        | -5.43 |       | SLD/6        | -5.07 |       | SLD/6        | -5.02 |
|       | SLD/7        | -5.91 |       | SLD/7        | -5.36 |       | SLD/7        | -5.00 |       | SLD/7        | -4.95 |
|       | SLD/8        | -5.71 |       | SLD/8        | -5.18 |       | SLD/8        | -4.83 |       | SLD/8        | -4.79 |
|       | SLD/9        | -6.12 |       | SLD/9        | -5.54 |       | SLD/9        | -5.17 |       | SLD/9        | -5.10 |
|       | SLD/10       | -6.05 |       | SLD/10       | -5.47 |       | SLD/10       | -5.10 |       | SLD/10       | -5.03 |
|       | SLD/11       | -5.93 |       | SLD/11       | -5.37 |       | SLD/11       | -4.99 |       | SLD/11       | -4.92 |
|       | SLD/12       | -6.27 |       | SLD/12       | -5.67 |       | SLD/12       | -5.27 |       | SLD/12       | -5.19 |
|       | SLD/13       | -6.19 |       | SLD/13       | -5.60 |       | SLD/13       | -5.20 |       | SLD/13       | -5.12 |
|       | SLD/14       | -6.17 |       | SLD/14       | -5.57 |       | SLD/14       | -5.17 |       | SLD/14       | -5.07 |
| X+    | SLD/15       | -4.28 | X+    | SLD/18       | -3.87 | X+    | SLD/18       | -3.60 | X+    | SLD/20       | -3.55 |
| X-    | SLD/24       | -4.28 | X-    | SLD/25       | -3.87 | X-    | SLD/25       | -3.60 | X-    | SLD/27       | -3.55 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | Y+ SLD/40    | -4.29 |       | Y+ SLD/41    | -3.87 |       | Y+ SLD/41    | -3.61 |       | Y+ SLD/41    | -3.56 |
|       | Y- SLD/46    | -4.29 |       | Y- SLD/43    | -3.87 |       | Y- SLD/43    | -3.61 |       | Y- SLD/43    | -3.56 |
| 86    | SLD/1        | -5.59 | 87    | SLD/1        | -4.18 | 88    | SLD/1        | -3.80 | 89    | SLD/1        | -4.07 |
|       | SLD/2        | -5.55 |       | SLD/2        | -4.15 |       | SLD/2        | -3.77 |       | SLD/2        | -4.04 |
|       | SLD/3        | -5.59 |       | SLD/3        | -4.18 |       | SLD/3        | -3.80 |       | SLD/3        | -4.07 |
|       | SLD/4        | -5.55 |       | SLD/4        | -4.16 |       | SLD/4        | -3.77 |       | SLD/4        | -4.04 |
|       | SLD/5        | -5.49 |       | SLD/5        | -4.12 |       | SLD/5        | -3.74 |       | SLD/5        | -4.00 |
|       | SLD/6        | -5.56 |       | SLD/6        | -4.16 |       | SLD/6        | -3.78 |       | SLD/6        | -4.05 |
|       | SLD/7        | -5.52 |       | SLD/7        | -4.14 |       | SLD/7        | -3.76 |       | SLD/7        | -4.02 |
|       | SLD/8        | -5.45 |       | SLD/8        | -4.09 |       | SLD/8        | -3.71 |       | SLD/8        | -3.96 |
|       | SLD/9        | -5.58 |       | SLD/9        | -4.18 |       | SLD/9        | -3.80 |       | SLD/9        | -4.07 |
|       | SLD/10       | -5.54 |       | SLD/10       | -4.15 |       | SLD/10       | -3.77 |       | SLD/10       | -4.04 |
|       | SLD/11       | -5.48 |       | SLD/11       | -4.12 |       | SLD/11       | -3.74 |       | SLD/11       | -4.00 |
|       | SLD/12       | -5.61 |       | SLD/12       | -4.20 |       | SLD/12       | -3.82 |       | SLD/12       | -4.09 |
|       | SLD/13       | -5.57 |       | SLD/13       | -4.17 |       | SLD/13       | -3.79 |       | SLD/13       | -4.06 |
|       | SLD/14       | -5.53 |       | SLD/14       | -4.15 |       | SLD/14       | -3.77 |       | SLD/14       | -4.03 |
|       | X+ SLD/15    | -3.90 |       | X+ SLD/15    | -2.90 |       | X+ SLD/18    | -2.63 |       | X+ SLD/18    | -2.81 |
|       | X- SLD/24    | -3.90 |       | X- SLD/24    | -2.90 |       | X- SLD/25    | -2.63 |       | X- SLD/25    | -2.81 |
|       | Y+ SLD/40    | -3.90 |       | Y+ SLD/40    | -2.90 |       | Y+ SLD/41    | -2.63 |       | Y+ SLD/41    | -2.82 |
|       | Y- SLD/46    | -3.90 |       | Y- SLD/46    | -2.90 |       | Y- SLD/43    | -2.63 |       | Y- SLD/43    | -2.82 |
| 90    | SLD/1        | -3.25 | 91    | SLD/1        | -2.36 | 92    | SLD/1        | -1.90 | 93    | SLD/1        | -1.89 |
|       | SLD/2        | -3.24 |       | SLD/2        | -2.37 |       | SLD/2        | -1.91 |       | SLD/2        | -1.90 |
|       | SLD/3        | -3.26 |       | SLD/3        | -2.37 |       | SLD/3        | -1.90 |       | SLD/3        | -1.89 |
|       | SLD/4        | -3.25 |       | SLD/4        | -2.37 |       | SLD/4        | -1.91 |       | SLD/4        | -1.90 |
|       | SLD/5        | -3.24 |       | SLD/5        | -2.37 |       | SLD/5        | -1.93 |       | SLD/5        | -1.92 |
|       | SLD/6        | -3.30 |       | SLD/6        | -2.38 |       | SLD/6        | -1.91 |       | SLD/6        | -1.89 |
|       | SLD/7        | -3.29 |       | SLD/7        | -2.39 |       | SLD/7        | -1.92 |       | SLD/7        | -1.90 |
|       | SLD/8        | -3.31 |       | SLD/8        | -2.40 |       | SLD/8        | -1.94 |       | SLD/8        | -1.92 |
|       | SLD/9        | -3.25 |       | SLD/9        | -2.36 |       | SLD/9        | -1.90 |       | SLD/9        | -1.89 |
|       | SLD/10       | -3.24 |       | SLD/10       | -2.37 |       | SLD/10       | -1.91 |       | SLD/10       | -1.90 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/11       | -3.22 |       | SLD/11       | -2.37 |       | SLD/11       | -1.93 |       | SLD/11       | -1.92 |
|       | SLD/12       | -3.20 |       | SLD/12       | -2.34 |       | SLD/12       | -1.90 |       | SLD/12       | -1.89 |
|       | SLD/13       | -3.19 |       | SLD/13       | -2.35 |       | SLD/13       | -1.91 |       | SLD/13       | -1.90 |
|       | SLD/14       | -3.15 |       | SLD/14       | -2.34 |       | SLD/14       | -1.92 |       | SLD/14       | -1.91 |
| X+    | SLD/20       | -2.27 | X+    | SLD/20       | -1.63 | X+    | SLD/20       | -1.30 | X+    | SLD/20       | -1.29 |
| X-    | SLD/27       | -2.27 | X-    | SLD/27       | -1.63 | X-    | SLD/27       | -1.30 | X-    | SLD/27       | -1.29 |
| Y+    | SLD/41       | -2.27 | Y+    | SLD/41       | -1.63 | Y+    | SLD/41       | -1.30 | Y+    | SLD/34       | -1.29 |
| Y-    | SLD/43       | -2.27 | Y-    | SLD/43       | -1.63 | Y-    | SLD/43       | -1.30 | Y-    | SLD/36       | -1.29 |
| 94    | SLD/1        | -4.12 | 95    | SLD/1        | -3.95 | 96    | SLD/1        | -3.85 | 97    | SLD/1        | -3.98 |
|       | SLD/2        | -4.09 |       | SLD/2        | -3.92 |       | SLD/2        | -3.82 |       | SLD/2        | -3.95 |
|       | SLD/3        | -4.12 |       | SLD/3        | -3.95 |       | SLD/3        | -3.85 |       | SLD/3        | -3.98 |
|       | SLD/4        | -4.09 |       | SLD/4        | -3.92 |       | SLD/4        | -3.82 |       | SLD/4        | -3.95 |
|       | SLD/5        | -4.03 |       | SLD/5        | -3.87 |       | SLD/5        | -3.77 |       | SLD/5        | -3.90 |
|       | SLD/6        | -4.15 |       | SLD/6        | -3.96 |       | SLD/6        | -3.85 |       | SLD/6        | -3.99 |
|       | SLD/7        | -4.11 |       | SLD/7        | -3.93 |       | SLD/7        | -3.82 |       | SLD/7        | -3.96 |
|       | SLD/8        | -4.08 |       | SLD/8        | -3.88 |       | SLD/8        | -3.78 |       | SLD/8        | -3.91 |
|       | SLD/9        | -4.12 |       | SLD/9        | -3.95 |       | SLD/9        | -3.85 |       | SLD/9        | -3.99 |
|       | SLD/10       | -4.09 |       | SLD/10       | -3.92 |       | SLD/10       | -3.82 |       | SLD/10       | -3.95 |
|       | SLD/11       | -4.03 |       | SLD/11       | -3.87 |       | SLD/11       | -3.77 |       | SLD/11       | -3.90 |
|       | SLD/12       | -4.09 |       | SLD/12       | -3.95 |       | SLD/12       | -3.85 |       | SLD/12       | -3.98 |
|       | SLD/13       | -4.06 |       | SLD/13       | -3.92 |       | SLD/13       | -3.82 |       | SLD/13       | -3.95 |
|       | SLD/14       | -3.99 |       | SLD/14       | -3.87 |       | SLD/14       | -3.78 |       | SLD/14       | -3.90 |
| X+    | SLD/21       | -2.85 | X+    | SLD/21       | -2.73 | X+    | SLD/21       | -2.66 | X+    | SLD/21       | -2.75 |
| X-    | SLD/30       | -2.85 | X-    | SLD/30       | -2.73 | X-    | SLD/30       | -2.66 | X-    | SLD/30       | -2.75 |
| Y+    | SLD/40       | -2.85 | Y+    | SLD/40       | -2.73 | Y+    | SLD/40       | -2.66 | Y+    | SLD/40       | -2.75 |
| Y-    | SLD/46       | -2.85 | Y-    | SLD/46       | -2.73 | Y-    | SLD/46       | -2.66 | Y-    | SLD/46       | -2.75 |
| 98    | SLD/1        | -4.37 | 99    | SLD/1        | -4.16 | 100   | SLD/1        | -4.26 | 101   | SLD/1        | -4.53 |
|       | SLD/2        | -4.30 |       | SLD/2        | -4.09 |       | SLD/2        | -4.19 |       | SLD/2        | -4.46 |
|       | SLD/3        | -4.37 |       | SLD/3        | -4.16 |       | SLD/3        | -4.26 |       | SLD/3        | -4.53 |
|       | SLD/4        | -4.30 |       | SLD/4        | -4.09 |       | SLD/4        | -4.19 |       | SLD/4        | -4.46 |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/5        | -4.20 |       | SLD/5        | -4.00 |       | SLD/5        | -4.09 |       | SLD/5        | -4.35 |
|       | SLD/6        | -4.42 |       | SLD/6        | -4.21 |       | SLD/6        | -4.31 |       | SLD/6        | -4.58 |
|       | SLD/7        | -4.36 |       | SLD/7        | -4.15 |       | SLD/7        | -4.25 |       | SLD/7        | -4.51 |
|       | SLD/8        | -4.29 |       | SLD/8        | -4.08 |       | SLD/8        | -4.18 |       | SLD/8        | -4.43 |
|       | SLD/9        | -4.37 |       | SLD/9        | -4.16 |       | SLD/9        | -4.26 |       | SLD/9        | -4.53 |
|       | SLD/10       | -4.30 |       | SLD/10       | -4.09 |       | SLD/10       | -4.19 |       | SLD/10       | -4.46 |
|       | SLD/11       | -4.20 |       | SLD/11       | -4.00 |       | SLD/11       | -4.09 |       | SLD/11       | -4.35 |
|       | SLD/12       | -4.32 |       | SLD/12       | -4.10 |       | SLD/12       | -4.20 |       | SLD/12       | -4.48 |
|       | SLD/13       | -4.25 |       | SLD/13       | -4.04 |       | SLD/13       | -4.14 |       | SLD/13       | -4.40 |
|       | SLD/14       | -4.11 |       | SLD/14       | -3.91 |       | SLD/14       | -4.00 |       | SLD/14       | -4.26 |
| X+    | SLD/15       | -3.02 | X+    | SLD/15       | -2.88 | X+    | SLD/15       | -2.95 | X+    | SLD/15       | -3.13 |
| X-    | SLD/24       | -3.02 | X-    | SLD/24       | -2.88 | X-    | SLD/24       | -2.95 | X-    | SLD/24       | -3.13 |
| Y+    | SLD/40       | -3.02 | Y+    | SLD/40       | -2.88 | Y+    | SLD/40       | -2.96 | Y+    | SLD/40       | -3.14 |
| Y-    | SLD/46       | -3.02 | Y-    | SLD/46       | -2.88 | Y-    | SLD/46       | -2.96 | Y-    | SLD/46       | -3.14 |
| 102   | SLD/1        | -4.95 | 103   | SLD/1        | -4.83 | 104   | SLD/1        | -4.89 | 105   | SLD/1        | -4.83 |
|       | SLD/2        | -4.88 |       | SLD/2        | -4.77 |       | SLD/2        | -4.82 |       | SLD/2        | -4.76 |
|       | SLD/3        | -4.95 |       | SLD/3        | -4.84 |       | SLD/3        | -4.89 |       | SLD/3        | -4.83 |
|       | SLD/4        | -4.88 |       | SLD/4        | -4.77 |       | SLD/4        | -4.82 |       | SLD/4        | -4.76 |
|       | SLD/5        | -4.78 |       | SLD/5        | -4.67 |       | SLD/5        | -4.72 |       | SLD/5        | -4.65 |
|       | SLD/6        | -4.86 |       | SLD/6        | -4.76 |       | SLD/6        | -4.81 |       | SLD/6        | -4.76 |
|       | SLD/7        | -4.80 |       | SLD/7        | -4.69 |       | SLD/7        | -4.74 |       | SLD/7        | -4.69 |
|       | SLD/8        | -4.64 |       | SLD/8        | -4.54 |       | SLD/8        | -4.58 |       | SLD/8        | -4.53 |
|       | SLD/9        | -4.94 |       | SLD/9        | -4.83 |       | SLD/9        | -4.89 |       | SLD/9        | -4.83 |
|       | SLD/10       | -4.88 |       | SLD/10       | -4.77 |       | SLD/10       | -4.82 |       | SLD/10       | -4.76 |
|       | SLD/11       | -4.77 |       | SLD/11       | -4.67 |       | SLD/11       | -4.71 |       | SLD/11       | -4.65 |
|       | SLD/12       | -5.04 |       | SLD/12       | -4.92 |       | SLD/12       | -4.97 |       | SLD/12       | -4.90 |
|       | SLD/13       | -4.97 |       | SLD/13       | -4.85 |       | SLD/13       | -4.90 |       | SLD/13       | -4.83 |
|       | SLD/14       | -4.92 |       | SLD/14       | -4.81 |       | SLD/14       | -4.85 |       | SLD/14       | -4.77 |
| X+    | SLD/20       | -3.45 | X+    | SLD/20       | -3.37 | X+    | SLD/20       | -3.41 | X+    | SLD/20       | -3.36 |
| X-    | SLD/27       | -3.45 | X-    | SLD/27       | -3.37 | X-    | SLD/27       | -3.41 | X-    | SLD/27       | -3.36 |
| Y+    | SLD/41       | -3.46 | Y+    | SLD/41       | -3.39 | Y+    | SLD/41       | -3.43 | Y+    | SLD/41       | -3.38 |
| Y-    | SLD/43       | -3.46 | Y-    | SLD/43       | -3.39 | Y-    | SLD/43       | -3.43 | Y-    | SLD/43       | -3.38 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 106   | SLD/1        | -4.11 | 107   | SLD/1        | -4.09 | 108   | SLD/1        | -4.13 | 109   | SLD/1        | -4.00 |
|       | SLD/2        | -4.08 |       | SLD/2        | -4.06 |       | SLD/2        | -4.10 |       | SLD/2        | -3.97 |
|       | SLD/3        | -4.11 |       | SLD/3        | -4.09 |       | SLD/3        | -4.14 |       | SLD/3        | -4.00 |
|       | SLD/4        | -4.09 |       | SLD/4        | -4.06 |       | SLD/4        | -4.10 |       | SLD/4        | -3.97 |
|       | SLD/5        | -4.04 |       | SLD/5        | -4.02 |       | SLD/5        | -4.06 |       | SLD/5        | -3.93 |
|       | SLD/6        | -4.10 |       | SLD/6        | -4.08 |       | SLD/6        | -4.13 |       | SLD/6        | -3.99 |
|       | SLD/7        | -4.07 |       | SLD/7        | -4.05 |       | SLD/7        | -4.10 |       | SLD/7        | -3.96 |
|       | SLD/8        | -4.02 |       | SLD/8        | -4.01 |       | SLD/8        | -4.04 |       | SLD/8        | -3.90 |
|       | SLD/9        | -4.11 |       | SLD/9        | -4.09 |       | SLD/9        | -4.13 |       | SLD/9        | -4.00 |
|       | SLD/10       | -4.08 |       | SLD/10       | -4.06 |       | SLD/10       | -4.10 |       | SLD/10       | -3.97 |
|       | SLD/11       | -4.04 |       | SLD/11       | -4.02 |       | SLD/11       | -4.06 |       | SLD/11       | -3.93 |
|       | SLD/12       | -4.13 |       | SLD/12       | -4.10 |       | SLD/12       | -4.14 |       | SLD/12       | -4.02 |
|       | SLD/13       | -4.10 |       | SLD/13       | -4.07 |       | SLD/13       | -4.11 |       | SLD/13       | -3.99 |
|       | SLD/14       | -4.06 |       | SLD/14       | -4.03 |       | SLD/14       | -4.07 |       | SLD/14       | -3.95 |
| X+    | SLD/18       | -2.84 | X+    | SLD/18       | -2.83 | X+    | SLD/18       | -2.86 | X+    | SLD/18       | -2.77 |
| X-    | SLD/25       | -2.84 | X-    | SLD/25       | -2.83 | X-    | SLD/25       | -2.86 | X-    | SLD/25       | -2.77 |
| Y+    | SLD/41       | -2.85 | Y+    | SLD/41       | -2.83 | Y+    | SLD/41       | -2.87 | Y+    | SLD/41       | -2.78 |
| Y-    | SLD/43       | -2.85 | Y-    | SLD/43       | -2.83 | Y-    | SLD/43       | -2.87 | Y-    | SLD/43       | -2.78 |
| 110   | SLD/1        | -1.96 | 111   | SLD/1        | -1.99 | 112   | SLD/1        | -2.01 | 113   | SLD/1        | -1.93 |
|       | SLD/2        | -1.97 |       | SLD/2        | -2.00 |       | SLD/2        | -2.02 |       | SLD/2        | -1.95 |
|       | SLD/3        | -1.96 |       | SLD/3        | -1.99 |       | SLD/3        | -2.01 |       | SLD/3        | -1.93 |
|       | SLD/4        | -1.97 |       | SLD/4        | -2.00 |       | SLD/4        | -2.02 |       | SLD/4        | -1.95 |
|       | SLD/5        | -1.99 |       | SLD/5        | -2.02 |       | SLD/5        | -2.04 |       | SLD/5        | -1.96 |
|       | SLD/6        | -1.96 |       | SLD/6        | -1.99 |       | SLD/6        | -2.01 |       | SLD/6        | -1.94 |
|       | SLD/7        | -1.97 |       | SLD/7        | -2.00 |       | SLD/7        | -2.02 |       | SLD/7        | -1.95 |
|       | SLD/8        | -1.99 |       | SLD/8        | -2.02 |       | SLD/8        | -2.04 |       | SLD/8        | -1.96 |
|       | SLD/9        | -1.96 |       | SLD/9        | -1.99 |       | SLD/9        | -2.01 |       | SLD/9        | -1.93 |
|       | SLD/10       | -1.97 |       | SLD/10       | -2.00 |       | SLD/10       | -2.02 |       | SLD/10       | -1.95 |
|       | SLD/11       | -1.99 |       | SLD/11       | -2.02 |       | SLD/11       | -2.04 |       | SLD/11       | -1.96 |
|       | SLD/12       | -1.96 |       | SLD/12       | -1.99 |       | SLD/12       | -2.01 |       | SLD/12       | -1.93 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/13       | -1.97 |       | SLD/13       | -2.00 |       | SLD/13       | -2.02 |       | SLD/13       | -1.94 |
|       | SLD/14       | -1.99 |       | SLD/14       | -2.02 |       | SLD/14       | -2.03 |       | SLD/14       | -1.96 |
| X+    | SLD/20       | -1.34 | X+    | SLD/20       | -1.36 | X+    | SLD/20       | -1.37 | X+    | SLD/20       | -1.32 |
| X-    | SLD/27       | -1.34 | X-    | SLD/27       | -1.36 | X-    | SLD/27       | -1.37 | X-    | SLD/27       | -1.32 |
| Y+    | SLD/34       | -1.34 | Y+    | SLD/34       | -1.36 | Y+    | SLD/34       | -1.37 | Y+    | SLD/34       | -1.32 |
| Y-    | SLD/36       | -1.34 | Y-    | SLD/36       | -1.36 | Y-    | SLD/36       | -1.37 | Y-    | SLD/36       | -1.32 |
| 114   | SLD/1        | -4.13 | 115   | SLD/1        | -4.13 | 116   | SLD/1        | -4.18 | 117   | SLD/1        | -4.03 |
|       | SLD/2        | -4.10 |       | SLD/2        | -4.10 |       | SLD/2        | -4.14 |       | SLD/2        | -4.00 |
|       | SLD/3        | -4.13 |       | SLD/3        | -4.13 |       | SLD/3        | -4.18 |       | SLD/3        | -4.04 |
|       | SLD/4        | -4.10 |       | SLD/4        | -4.10 |       | SLD/4        | -4.14 |       | SLD/4        | -4.00 |
|       | SLD/5        | -4.05 |       | SLD/5        | -4.05 |       | SLD/5        | -4.09 |       | SLD/5        | -3.95 |
|       | SLD/6        | -4.13 |       | SLD/6        | -4.13 |       | SLD/6        | -4.18 |       | SLD/6        | -4.05 |
|       | SLD/7        | -4.10 |       | SLD/7        | -4.10 |       | SLD/7        | -4.14 |       | SLD/7        | -4.01 |
|       | SLD/8        | -4.05 |       | SLD/8        | -4.05 |       | SLD/8        | -4.10 |       | SLD/8        | -3.97 |
|       | SLD/9        | -4.13 |       | SLD/9        | -4.13 |       | SLD/9        | -4.17 |       | SLD/9        | -4.03 |
|       | SLD/10       | -4.10 |       | SLD/10       | -4.10 |       | SLD/10       | -4.14 |       | SLD/10       | -4.00 |
|       | SLD/11       | -4.05 |       | SLD/11       | -4.05 |       | SLD/11       | -4.09 |       | SLD/11       | -3.95 |
|       | SLD/12       | -4.13 |       | SLD/12       | -4.13 |       | SLD/12       | -4.17 |       | SLD/12       | -4.02 |
|       | SLD/13       | -4.10 |       | SLD/13       | -4.10 |       | SLD/13       | -4.14 |       | SLD/13       | -3.99 |
|       | SLD/14       | -4.05 |       | SLD/14       | -4.05 |       | SLD/14       | -4.09 |       | SLD/14       | -3.93 |
| X+    | SLD/21       | -2.85 | X+    | SLD/21       | -2.85 | X+    | SLD/21       | -2.89 | X+    | SLD/21       | -2.79 |
| X-    | SLD/30       | -2.85 | X-    | SLD/30       | -2.85 | X-    | SLD/30       | -2.89 | X-    | SLD/30       | -2.79 |
| Y+    | SLD/40       | -2.86 | Y+    | SLD/40       | -2.86 | Y+    | SLD/40       | -2.89 | Y+    | SLD/40       | -2.80 |
| Y-    | SLD/46       | -2.86 | Y-    | SLD/46       | -2.86 | Y-    | SLD/46       | -2.89 | Y-    | SLD/46       | -2.80 |
| 118   | SLD/1        | -4.50 | 119   | SLD/1        | -4.41 | 120   | SLD/1        | -4.47 | 121   | SLD/1        | -4.41 |
|       | SLD/2        | -4.43 |       | SLD/2        | -4.34 |       | SLD/2        | -4.40 |       | SLD/2        | -4.34 |
|       | SLD/3        | -4.50 |       | SLD/3        | -4.41 |       | SLD/3        | -4.47 |       | SLD/3        | -4.41 |
|       | SLD/4        | -4.43 |       | SLD/4        | -4.34 |       | SLD/4        | -4.40 |       | SLD/4        | -4.34 |
|       | SLD/5        | -4.33 |       | SLD/5        | -4.25 |       | SLD/5        | -4.30 |       | SLD/5        | -4.24 |
|       | SLD/6        | -4.56 |       | SLD/6        | -4.47 |       | SLD/6        | -4.53 |       | SLD/6        | -4.47 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/7        | -4.49 |       | SLD/7        | -4.40 |       | SLD/7        | -4.46 |       | SLD/7        | -4.40 |
|       | SLD/8        | -4.43 |       | SLD/8        | -4.35 |       | SLD/8        | -4.41 |       | SLD/8        | -4.34 |
|       | SLD/9        | -4.50 |       | SLD/9        | -4.41 |       | SLD/9        | -4.47 |       | SLD/9        | -4.41 |
|       | SLD/10       | -4.43 |       | SLD/10       | -4.34 |       | SLD/10       | -4.40 |       | SLD/10       | -4.34 |
|       | SLD/11       | -4.33 |       | SLD/11       | -4.24 |       | SLD/11       | -4.30 |       | SLD/11       | -4.24 |
|       | SLD/12       | -4.44 |       | SLD/12       | -4.34 |       | SLD/12       | -4.40 |       | SLD/12       | -4.35 |
|       | SLD/13       | -4.37 |       | SLD/13       | -4.28 |       | SLD/13       | -4.33 |       | SLD/13       | -4.28 |
|       | SLD/14       | -4.22 |       | SLD/14       | -4.14 |       | SLD/14       | -4.18 |       | SLD/14       | -4.13 |
| X+    | SLD/15       | -3.12 | X+    | SLD/15       | -3.06 | X+    | SLD/15       | -3.11 | X+    | SLD/15       | -3.06 |
| X-    | SLD/24       | -3.12 | X-    | SLD/24       | -3.06 | X-    | SLD/24       | -3.11 | X-    | SLD/24       | -3.06 |
| Y+    | SLD/40       | -3.13 | Y+    | SLD/40       | -3.08 | Y+    | SLD/40       | -3.13 | Y+    | SLD/40       | -3.08 |
| Y-    | SLD/46       | -3.13 | Y-    | SLD/46       | -3.08 | Y-    | SLD/46       | -3.13 | Y-    | SLD/46       | -3.08 |
| 122   | SLD/1        | -4.50 | 123   | SLD/1        | -4.43 | 124   | SLD/1        | -4.49 | 125   | SLD/1        | -4.74 |
|       | SLD/2        | -4.44 |       | SLD/2        | -4.37 |       | SLD/2        | -4.43 |       | SLD/2        | -4.67 |
|       | SLD/3        | -4.51 |       | SLD/3        | -4.43 |       | SLD/3        | -4.49 |       | SLD/3        | -4.74 |
|       | SLD/4        | -4.44 |       | SLD/4        | -4.37 |       | SLD/4        | -4.43 |       | SLD/4        | -4.68 |
|       | SLD/5        | -4.35 |       | SLD/5        | -4.28 |       | SLD/5        | -4.34 |       | SLD/5        | -4.58 |
|       | SLD/6        | -4.43 |       | SLD/6        | -4.35 |       | SLD/6        | -4.41 |       | SLD/6        | -4.65 |
|       | SLD/7        | -4.37 |       | SLD/7        | -4.29 |       | SLD/7        | -4.35 |       | SLD/7        | -4.59 |
|       | SLD/8        | -4.22 |       | SLD/8        | -4.15 |       | SLD/8        | -4.20 |       | SLD/8        | -4.43 |
|       | SLD/9        | -4.50 |       | SLD/9        | -4.43 |       | SLD/9        | -4.49 |       | SLD/9        | -4.73 |
|       | SLD/10       | -4.44 |       | SLD/10       | -4.37 |       | SLD/10       | -4.43 |       | SLD/10       | -4.67 |
|       | SLD/11       | -4.34 |       | SLD/11       | -4.27 |       | SLD/11       | -4.33 |       | SLD/11       | -4.56 |
|       | SLD/12       | -4.58 |       | SLD/12       | -4.51 |       | SLD/12       | -4.58 |       | SLD/12       | -4.83 |
|       | SLD/13       | -4.52 |       | SLD/13       | -4.45 |       | SLD/13       | -4.52 |       | SLD/13       | -4.76 |
|       | SLD/14       | -4.47 |       | SLD/14       | -4.41 |       | SLD/14       | -4.48 |       | SLD/14       | -4.72 |
| X+    | SLD/20       | -3.15 | X+    | SLD/20       | -3.11 | X+    | SLD/20       | -3.15 | X+    | SLD/20       | -3.32 |
| X-    | SLD/27       | -3.15 | X-    | SLD/27       | -3.11 | X-    | SLD/27       | -3.15 | X-    | SLD/27       | -3.32 |
| Y+    | SLD/41       | -3.17 | Y+    | SLD/41       | -3.13 | Y+    | SLD/41       | -3.18 | Y+    | SLD/41       | -3.35 |
| Y-    | SLD/43       | -3.17 | Y-    | SLD/43       | -3.13 | Y-    | SLD/43       | -3.18 | Y-    | SLD/43       | -3.35 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 126   | SLD/1        | -3.81 | 127   | SLD/1        | -3.77 | 128   | SLD/1        | -3.76 | 129   | SLD/1        | -3.84 |
|       | SLD/2        | -3.79 |       | SLD/2        | -3.74 |       | SLD/2        | -3.73 |       | SLD/2        | -3.81 |
|       | SLD/3        | -3.82 |       | SLD/3        | -3.77 |       | SLD/3        | -3.76 |       | SLD/3        | -3.84 |
|       | SLD/4        | -3.79 |       | SLD/4        | -3.74 |       | SLD/4        | -3.73 |       | SLD/4        | -3.81 |
|       | SLD/5        | -3.75 |       | SLD/5        | -3.70 |       | SLD/5        | -3.69 |       | SLD/5        | -3.77 |
|       | SLD/6        | -3.80 |       | SLD/6        | -3.76 |       | SLD/6        | -3.74 |       | SLD/6        | -3.81 |
|       | SLD/7        | -3.78 |       | SLD/7        | -3.73 |       | SLD/7        | -3.72 |       | SLD/7        | -3.79 |
|       | SLD/8        | -3.73 |       | SLD/8        | -3.69 |       | SLD/8        | -3.67 |       | SLD/8        | -3.73 |
|       | SLD/9        | -3.81 |       | SLD/9        | -3.77 |       | SLD/9        | -3.76 |       | SLD/9        | -3.84 |
|       | SLD/10       | -3.78 |       | SLD/10       | -3.74 |       | SLD/10       | -3.73 |       | SLD/10       | -3.81 |
|       | SLD/11       | -3.74 |       | SLD/11       | -3.70 |       | SLD/11       | -3.69 |       | SLD/11       | -3.77 |
|       | SLD/12       | -3.82 |       | SLD/12       | -3.78 |       | SLD/12       | -3.77 |       | SLD/12       | -3.86 |
|       | SLD/13       | -3.80 |       | SLD/13       | -3.75 |       | SLD/13       | -3.74 |       | SLD/13       | -3.83 |
|       | SLD/14       | -3.76 |       | SLD/14       | -3.72 |       | SLD/14       | -3.71 |       | SLD/14       | -3.81 |
| X+    | SLD/18       | -2.64 | X+    | SLD/18       | -2.61 | X+    | SLD/18       | -2.60 | X+    | SLD/18       | -2.66 |
| X-    | SLD/25       | -2.64 | X-    | SLD/25       | -2.61 | X-    | SLD/25       | -2.60 | X-    | SLD/25       | -2.66 |
| Y+    | SLD/41       | -2.65 | Y+    | SLD/41       | -2.62 | Y+    | SLD/41       | -2.61 | Y+    | SLD/41       | -2.68 |
| Y-    | SLD/43       | -2.65 | Y-    | SLD/43       | -2.62 | Y-    | SLD/43       | -2.61 | Y-    | SLD/43       | -2.68 |
| 130   | SLD/1        | -1.85 | 131   | SLD/1        | -1.83 | 132   | SLD/1        | -1.78 | 133   | SLD/1        | -1.77 |
|       | SLD/2        | -1.86 |       | SLD/2        | -1.85 |       | SLD/2        | -1.79 |       | SLD/2        | -1.78 |
|       | SLD/3        | -1.85 |       | SLD/3        | -1.83 |       | SLD/3        | -1.78 |       | SLD/3        | -1.77 |
|       | SLD/4        | -1.86 |       | SLD/4        | -1.84 |       | SLD/4        | -1.79 |       | SLD/4        | -1.78 |
|       | SLD/5        | -1.88 |       | SLD/5        | -1.86 |       | SLD/5        | -1.81 |       | SLD/5        | -1.80 |
|       | SLD/6        | -1.85 |       | SLD/6        | -1.83 |       | SLD/6        | -1.78 |       | SLD/6        | -1.77 |
|       | SLD/7        | -1.87 |       | SLD/7        | -1.85 |       | SLD/7        | -1.79 |       | SLD/7        | -1.78 |
|       | SLD/8        | -1.88 |       | SLD/8        | -1.86 |       | SLD/8        | -1.81 |       | SLD/8        | -1.80 |
|       | SLD/9        | -1.85 |       | SLD/9        | -1.83 |       | SLD/9        | -1.78 |       | SLD/9        | -1.77 |
|       | SLD/10       | -1.86 |       | SLD/10       | -1.85 |       | SLD/10       | -1.79 |       | SLD/10       | -1.78 |
|       | SLD/11       | -1.88 |       | SLD/11       | -1.86 |       | SLD/11       | -1.81 |       | SLD/11       | -1.80 |
|       | SLD/12       | -1.85 |       | SLD/12       | -1.83 |       | SLD/12       | -1.78 |       | SLD/12       | -1.77 |
|       | SLD/13       | -1.86 |       | SLD/13       | -1.84 |       | SLD/13       | -1.79 |       | SLD/13       | -1.78 |
|       | SLD/14       | -1.88 |       | SLD/14       | -1.86 |       | SLD/14       | -1.81 |       | SLD/14       | -1.80 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | X+ SLD/20    | -1.27 |       | X+ SLD/20    | -1.25 |       | X+ SLD/20    | -1.21 |       | X+ SLD/20    | -1.20 |
|       | X- SLD/27    | -1.27 |       | X- SLD/27    | -1.25 |       | X- SLD/27    | -1.21 |       | X- SLD/27    | -1.20 |
|       | Y+ SLD/34    | -1.27 |       | Y+ SLD/34    | -1.25 |       | Y+ SLD/34    | -1.21 |       | Y+ SLD/34    | -1.20 |
|       | Y- SLD/36    | -1.27 |       | Y- SLD/36    | -1.25 |       | Y- SLD/36    | -1.21 |       | Y- SLD/36    | -1.20 |
| 134   | SLD/1        | -3.84 | 135   | SLD/1        | -3.78 | 136   | SLD/1        | -3.75 | 137   | SLD/1        | -3.81 |
|       | SLD/2        | -3.81 |       | SLD/2        | -3.75 |       | SLD/2        | -3.72 |       | SLD/2        | -3.78 |
|       | SLD/3        | -3.84 |       | SLD/3        | -3.78 |       | SLD/3        | -3.75 |       | SLD/3        | -3.81 |
|       | SLD/4        | -3.81 |       | SLD/4        | -3.75 |       | SLD/4        | -3.72 |       | SLD/4        | -3.78 |
|       | SLD/5        | -3.76 |       | SLD/5        | -3.71 |       | SLD/5        | -3.68 |       | SLD/5        | -3.74 |
|       | SLD/6        | -3.84 |       | SLD/6        | -3.79 |       | SLD/6        | -3.76 |       | SLD/6        | -3.83 |
|       | SLD/7        | -3.81 |       | SLD/7        | -3.76 |       | SLD/7        | -3.73 |       | SLD/7        | -3.80 |
|       | SLD/8        | -3.77 |       | SLD/8        | -3.72 |       | SLD/8        | -3.70 |       | SLD/8        | -3.77 |
|       | SLD/9        | -3.84 |       | SLD/9        | -3.78 |       | SLD/9        | -3.75 |       | SLD/9        | -3.81 |
|       | SLD/10       | -3.81 |       | SLD/10       | -3.75 |       | SLD/10       | -3.72 |       | SLD/10       | -3.78 |
|       | SLD/11       | -3.76 |       | SLD/11       | -3.71 |       | SLD/11       | -3.68 |       | SLD/11       | -3.74 |
|       | SLD/12       | -3.83 |       | SLD/12       | -3.77 |       | SLD/12       | -3.74 |       | SLD/12       | -3.78 |
|       | SLD/13       | -3.80 |       | SLD/13       | -3.74 |       | SLD/13       | -3.71 |       | SLD/13       | -3.76 |
|       | SLD/14       | -3.75 |       | SLD/14       | -3.70 |       | SLD/14       | -3.66 |       | SLD/14       | -3.70 |
|       | X+ SLD/21    | -2.65 |       | X+ SLD/21    | -2.62 |       | X+ SLD/21    | -2.60 |       | X+ SLD/21    | -2.64 |
|       | X- SLD/30    | -2.65 |       | X- SLD/30    | -2.62 |       | X- SLD/30    | -2.60 |       | X- SLD/30    | -2.64 |
|       | Y+ SLD/40    | -2.66 |       | Y+ SLD/40    | -2.62 |       | Y+ SLD/40    | -2.61 |       | Y+ SLD/40    | -2.65 |
|       | Y- SLD/46    | -2.66 |       | Y- SLD/46    | -2.62 |       | Y- SLD/46    | -2.61 |       | Y- SLD/46    | -2.65 |
| 138   | SLD/1        | -4.10 | 139   | SLD/1        | -4.01 | 140   | SLD/1        | -4.04 | 141   | SLD/1        | -4.22 |
|       | SLD/2        | -4.04 |       | SLD/2        | -3.95 |       | SLD/2        | -3.98 |       | SLD/2        | -4.16 |
|       | SLD/3        | -4.10 |       | SLD/3        | -4.01 |       | SLD/3        | -4.04 |       | SLD/3        | -4.23 |
|       | SLD/4        | -4.04 |       | SLD/4        | -3.95 |       | SLD/4        | -3.98 |       | SLD/4        | -4.17 |
|       | SLD/5        | -3.95 |       | SLD/5        | -3.87 |       | SLD/5        | -3.90 |       | SLD/5        | -4.08 |
|       | SLD/6        | -4.17 |       | SLD/6        | -4.08 |       | SLD/6        | -4.11 |       | SLD/6        | -4.30 |
|       | SLD/7        | -4.10 |       | SLD/7        | -4.02 |       | SLD/7        | -4.06 |       | SLD/7        | -4.24 |
|       | SLD/8        | -4.06 |       | SLD/8        | -3.99 |       | SLD/8        | -4.02 |       | SLD/8        | -4.21 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/9        | -4.10 |       | SLD/9        | -4.01 |       | SLD/9        | -4.03 |       | SLD/9        | -4.22 |
|       | SLD/10       | -4.03 |       | SLD/10       | -3.95 |       | SLD/10       | -3.98 |       | SLD/10       | -4.16 |
|       | SLD/11       | -3.94 |       | SLD/11       | -3.86 |       | SLD/11       | -3.89 |       | SLD/11       | -4.06 |
|       | SLD/12       | -4.03 |       | SLD/12       | -3.93 |       | SLD/12       | -3.95 |       | SLD/12       | -4.13 |
|       | SLD/13       | -3.97 |       | SLD/13       | -3.88 |       | SLD/13       | -3.90 |       | SLD/13       | -4.07 |
|       | SLD/14       | -3.83 |       | SLD/14       | -3.74 |       | SLD/14       | -3.76 |       | SLD/14       | -3.93 |
| X+    | SLD/15       | -2.86 | X+    | SLD/15       | -2.80 | X+    | SLD/15       | -2.83 | X+    | SLD/15       | -2.96 |
| X-    | SLD/24       | -2.86 | X-    | SLD/24       | -2.80 | X-    | SLD/24       | -2.83 | X-    | SLD/24       | -2.96 |
| Y+    | SLD/40       | -2.88 | Y+    | SLD/40       | -2.83 | Y+    | SLD/40       | -2.85 | Y+    | SLD/40       | -2.98 |
| Y-    | SLD/46       | -2.88 | Y-    | SLD/46       | -2.83 | Y-    | SLD/46       | -2.85 | Y-    | SLD/46       | -2.98 |
| 142   | SLD/1        | -4.75 | 143   | SLD/1        | -4.71 | 144   | SLD/1        | -4.83 | 145   | SLD/1        | -2.50 |
|       | SLD/2        | -4.69 |       | SLD/2        | -4.65 |       | SLD/2        | -4.77 |       | SLD/2        | -2.46 |
|       | SLD/3        | -4.76 |       | SLD/3        | -4.72 |       | SLD/3        | -4.84 |       | SLD/3        | -2.50 |
|       | SLD/4        | -4.70 |       | SLD/4        | -4.66 |       | SLD/4        | -4.78 |       | SLD/4        | -2.47 |
|       | SLD/5        | -4.61 |       | SLD/5        | -4.58 |       | SLD/5        | -4.70 |       | SLD/5        | -2.43 |
|       | SLD/6        | -4.65 |       | SLD/6        | -4.59 |       | SLD/6        | -4.69 |       | SLD/6        | -2.41 |
|       | SLD/7        | -4.58 |       | SLD/7        | -4.53 |       | SLD/7        | -4.63 |       | SLD/7        | -2.38 |
|       | SLD/8        | -4.42 |       | SLD/8        | -4.36 |       | SLD/8        | -4.45 |       | SLD/8        | -2.28 |
|       | SLD/9        | -4.74 |       | SLD/9        | -4.70 |       | SLD/9        | -4.82 |       | SLD/9        | -2.49 |
|       | SLD/10       | -4.68 |       | SLD/10       | -4.64 |       | SLD/10       | -4.76 |       | SLD/10       | -2.46 |
|       | SLD/11       | -4.58 |       | SLD/11       | -4.55 |       | SLD/11       | -4.66 |       | SLD/11       | -2.41 |
|       | SLD/12       | -4.86 |       | SLD/12       | -4.84 |       | SLD/12       | -4.97 |       | SLD/12       | -2.58 |
|       | SLD/13       | -4.80 |       | SLD/13       | -4.78 |       | SLD/13       | -4.91 |       | SLD/13       | -2.55 |
|       | SLD/14       | -4.78 |       | SLD/14       | -4.77 |       | SLD/14       | -4.92 |       | SLD/14       | -2.56 |
| X+    | SLD/20       | -3.35 | X+    | SLD/20       | -3.34 | X+    | SLD/20       | -3.43 | X+    | SLD/20       | -1.78 |
| X-    | SLD/27       | -3.35 | X-    | SLD/27       | -3.34 | X-    | SLD/27       | -3.43 | X-    | SLD/27       | -1.78 |
| Y+    | SLD/41       | -3.38 | Y+    | SLD/41       | -3.37 | Y+    | SLD/41       | -3.47 | Y+    | SLD/41       | -1.80 |
| Y-    | SLD/43       | -3.38 | Y-    | SLD/43       | -3.37 | Y-    | SLD/43       | -3.47 | Y-    | SLD/43       | -1.80 |
| 146   | SLD/1        | -4.01 | 147   | SLD/1        | -4.65 | 148   | SLD/1        | -6.54 | 149   | SLD/1        | -4.35 |
|       | SLD/2        | -3.98 |       | SLD/2        | -4.61 |       | SLD/2        | -6.48 |       | SLD/2        | -4.30 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/3        | -4.01 |       | SLD/3        | -4.65 |       | SLD/3        | -6.55 |       | SLD/3        | -4.36 |
|       | SLD/4        | -3.98 |       | SLD/4        | -4.62 |       | SLD/4        | -6.49 |       | SLD/4        | -4.31 |
|       | SLD/5        | -3.95 |       | SLD/5        | -4.57 |       | SLD/5        | -6.40 |       | SLD/5        | -4.25 |
|       | SLD/6        | -3.98 |       | SLD/6        | -4.61 |       | SLD/6        | -6.45 |       | SLD/6        | -4.27 |
|       | SLD/7        | -3.96 |       | SLD/7        | -4.57 |       | SLD/7        | -6.39 |       | SLD/7        | -4.23 |
|       | SLD/8        | -3.90 |       | SLD/8        | -4.49 |       | SLD/8        | -6.23 |       | SLD/8        | -4.11 |
|       | SLD/9        | -4.01 |       | SLD/9        | -4.64 |       | SLD/9        | -6.53 |       | SLD/9        | -4.34 |
|       | SLD/10       | -3.98 |       | SLD/10       | -4.61 |       | SLD/10       | -6.47 |       | SLD/10       | -4.29 |
|       | SLD/11       | -3.93 |       | SLD/11       | -4.55 |       | SLD/11       | -6.37 |       | SLD/11       | -4.22 |
|       | SLD/12       | -4.03 |       | SLD/12       | -4.69 |       | SLD/12       | -6.64 |       | SLD/12       | -4.43 |
|       | SLD/13       | -4.01 |       | SLD/13       | -4.66 |       | SLD/13       | -6.58 |       | SLD/13       | -4.38 |
|       | SLD/14       | -3.98 |       | SLD/14       | -4.63 |       | SLD/14       | -6.55 |       | SLD/14       | -4.37 |
| X+    | SLD/18       | -2.79 | X+    | SLD/20       | -3.25 | X+    | SLD/20       | -4.62 | X+    | SLD/20       | -3.09 |
| X-    | SLD/25       | -2.79 | X-    | SLD/27       | -3.25 | X-    | SLD/27       | -4.62 | X-    | SLD/27       | -3.09 |
| Y+    | SLD/41       | -2.80 | Y+    | SLD/41       | -3.27 | Y+    | SLD/41       | -4.65 | Y+    | SLD/41       | -3.11 |
| Y-    | SLD/43       | -2.80 | Y-    | SLD/43       | -3.27 | Y-    | SLD/43       | -4.65 | Y-    | SLD/43       | -3.11 |
| 150   | SLD/1        | -1.98 | 151   | SLD/1        | -2.96 | 152   | SLD/1        | -5.41 | 153   | SLD/1        | -3.98 |
|       | SLD/2        | -1.99 |       | SLD/2        | -2.95 |       | SLD/2        | -5.37 |       | SLD/2        | -3.94 |
|       | SLD/3        | -1.98 |       | SLD/3        | -2.96 |       | SLD/3        | -5.42 |       | SLD/3        | -3.99 |
|       | SLD/4        | -1.99 |       | SLD/4        | -2.96 |       | SLD/4        | -5.38 |       | SLD/4        | -3.95 |
|       | SLD/5        | -2.00 |       | SLD/5        | -2.95 |       | SLD/5        | -5.32 |       | SLD/5        | -3.90 |
|       | SLD/6        | -1.98 |       | SLD/6        | -2.96 |       | SLD/6        | -5.41 |       | SLD/6        | -3.98 |
|       | SLD/7        | -1.99 |       | SLD/7        | -2.95 |       | SLD/7        | -5.37 |       | SLD/7        | -3.94 |
|       | SLD/8        | -2.01 |       | SLD/8        | -2.95 |       | SLD/8        | -5.31 |       | SLD/8        | -3.88 |
|       | SLD/9        | -1.98 |       | SLD/9        | -2.96 |       | SLD/9        | -5.41 |       | SLD/9        | -3.97 |
|       | SLD/10       | -1.99 |       | SLD/10       | -2.95 |       | SLD/10       | -5.36 |       | SLD/10       | -3.93 |
|       | SLD/11       | -2.01 |       | SLD/11       | -2.95 |       | SLD/11       | -5.30 |       | SLD/11       | -3.87 |
|       | SLD/12       | -1.98 |       | SLD/12       | -2.96 |       | SLD/12       | -5.41 |       | SLD/12       | -3.98 |
|       | SLD/13       | -1.99 |       | SLD/13       | -2.95 |       | SLD/13       | -5.37 |       | SLD/13       | -3.94 |
|       | SLD/14       | -2.00 |       | SLD/14       | -2.95 |       | SLD/14       | -5.31 |       | SLD/14       | -3.88 |
| X+    | SLD/20       | -1.35 | X+    | SLD/15       | -2.05 | X+    | SLD/15       | -3.81 | X+    | SLD/15       | -2.81 |
| X-    | SLD/27       | -1.35 | X-    | SLD/24       | -2.05 | X-    | SLD/24       | -3.81 | X-    | SLD/24       | -2.81 |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | Y+ SLD/34    | -1.35 |       | Y+ SLD/40    | -2.05 |       | Y+ SLD/40    | -3.81 |       | Y+ SLD/40    | -2.82 |
|       | Y- SLD/36    | -1.35 |       | Y- SLD/46    | -2.05 |       | Y- SLD/46    | -3.81 |       | Y- SLD/46    | -2.82 |
| 154   | SLD/1        | -3.93 | 155   | SLD/1        | -4.44 | 156   | SLD/1        | -6.02 | 157   | SLD/1        | -3.91 |
|       | SLD/2        | -3.90 |       | SLD/2        | -4.40 |       | SLD/2        | -5.96 |       | SLD/2        | -3.87 |
|       | SLD/3        | -3.93 |       | SLD/3        | -4.44 |       | SLD/3        | -6.03 |       | SLD/3        | -3.92 |
|       | SLD/4        | -3.90 |       | SLD/4        | -4.41 |       | SLD/4        | -5.98 |       | SLD/4        | -3.88 |
|       | SLD/5        | -3.86 |       | SLD/5        | -4.36 |       | SLD/5        | -5.90 |       | SLD/5        | -3.82 |
|       | SLD/6        | -3.95 |       | SLD/6        | -4.48 |       | SLD/6        | -6.11 |       | SLD/6        | -3.98 |
|       | SLD/7        | -3.92 |       | SLD/7        | -4.44 |       | SLD/7        | -6.06 |       | SLD/7        | -3.94 |
|       | SLD/8        | -3.90 |       | SLD/8        | -4.42 |       | SLD/8        | -6.04 |       | SLD/8        | -3.93 |
|       | SLD/9        | -3.92 |       | SLD/9        | -4.43 |       | SLD/9        | -6.01 |       | SLD/9        | -3.90 |
|       | SLD/10       | -3.90 |       | SLD/10       | -4.40 |       | SLD/10       | -5.95 |       | SLD/10       | -3.86 |
|       | SLD/11       | -3.85 |       | SLD/11       | -4.34 |       | SLD/11       | -5.86 |       | SLD/11       | -3.79 |
|       | SLD/12       | -3.90 |       | SLD/12       | -4.39 |       | SLD/12       | -5.92 |       | SLD/12       | -3.83 |
|       | SLD/13       | -3.87 |       | SLD/13       | -4.36 |       | SLD/13       | -5.87 |       | SLD/13       | -3.79 |
|       | SLD/14       | -3.82 |       | SLD/14       | -4.28 |       | SLD/14       | -5.72 |       | SLD/14       | -3.67 |
|       | X+ SLD/21    | -2.73 |       | X+ SLD/15    | -3.10 |       | X+ SLD/15    | -4.26 |       | X+ SLD/15    | -2.78 |
|       | X- SLD/30    | -2.73 |       | X- SLD/24    | -3.10 |       | X- SLD/24    | -4.26 |       | X- SLD/24    | -2.78 |
|       | Y+ SLD/40    | -2.74 |       | Y+ SLD/40    | -3.12 |       | Y+ SLD/40    | -4.28 |       | Y+ SLD/40    | -2.80 |
|       | Y- SLD/46    | -2.74 |       | Y- SLD/46    | -3.12 |       | Y- SLD/46    | -4.28 |       | Y- SLD/46    | -2.80 |
| 158   | SLD/1        | -4.15 | 159   | SLD/1        | -4.02 | 160   | SLD/1        | -4.01 | 161   | SLD/1        | -2.01 |
|       | SLD/2        | -4.10 |       | SLD/2        | -3.97 |       | SLD/2        | -3.97 |       | SLD/2        | -1.99 |
|       | SLD/3        | -4.16 |       | SLD/3        | -4.03 |       | SLD/3        | -4.02 |       | SLD/3        | -2.02 |
|       | SLD/4        | -4.11 |       | SLD/4        | -3.98 |       | SLD/4        | -3.98 |       | SLD/4        | -1.99 |
|       | SLD/5        | -4.03 |       | SLD/5        | -3.91 |       | SLD/5        | -3.91 |       | SLD/5        | -1.96 |
|       | SLD/6        | -4.26 |       | SLD/6        | -4.14 |       | SLD/6        | -4.15 |       | SLD/6        | -2.09 |
|       | SLD/7        | -4.20 |       | SLD/7        | -4.09 |       | SLD/7        | -4.10 |       | SLD/7        | -2.07 |
|       | SLD/8        | -4.19 |       | SLD/8        | -4.09 |       | SLD/8        | -4.12 |       | SLD/8        | -2.09 |
|       | SLD/9        | -4.15 |       | SLD/9        | -4.01 |       | SLD/9        | -4.00 |       | SLD/9        | -2.00 |
|       | SLD/10       | -4.09 |       | SLD/10       | -3.96 |       | SLD/10       | -3.95 |       | SLD/10       | -1.98 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/11       | -4.00 |       | SLD/11       | -3.88 |       | SLD/11       | -3.87 |       | SLD/11       | -1.94 |
|       | SLD/12       | -4.05 |       | SLD/12       | -3.90 |       | SLD/12       | -3.87 |       | SLD/12       | -1.92 |
|       | SLD/13       | -3.99 |       | SLD/13       | -3.85 |       | SLD/13       | -3.82 |       | SLD/13       | -1.90 |
|       | SLD/14       | -3.84 |       | SLD/14       | -3.69 |       | SLD/14       | -3.65 |       | SLD/14       | -1.81 |
| X+    | SLD/15       | -2.93 | X+    | SLD/15       | -2.85 | X+    | SLD/15       | -2.85 | X+    | SLD/15       | -1.44 |
| X-    | SLD/24       | -2.93 | X-    | SLD/24       | -2.85 | X-    | SLD/24       | -2.85 | X-    | SLD/24       | -1.44 |
| Y+    | SLD/40       | -2.96 | Y+    | SLD/40       | -2.88 | Y+    | SLD/40       | -2.89 | Y+    | SLD/40       | -1.46 |
| Y-    | SLD/46       | -2.96 | Y-    | SLD/46       | -2.88 | Y-    | SLD/46       | -2.89 | Y-    | SLD/46       | -1.46 |
| 213   | SLD/1        | -2.52 | 214   | SLD/1        | -1.67 | 215   | SLD/1        | -2.83 | 216   | SLD/1        | -3.37 |
|       | SLD/2        | -2.49 |       | SLD/2        | -1.66 |       | SLD/2        | -2.80 |       | SLD/2        | -3.34 |
|       | SLD/3        | -2.52 |       | SLD/3        | -1.67 |       | SLD/3        | -2.83 |       | SLD/3        | -3.37 |
|       | SLD/4        | -2.49 |       | SLD/4        | -1.66 |       | SLD/4        | -2.80 |       | SLD/4        | -3.34 |
|       | SLD/5        | -2.46 |       | SLD/5        | -1.64 |       | SLD/5        | -2.75 |       | SLD/5        | -3.28 |
|       | SLD/6        | -2.47 |       | SLD/6        | -1.65 |       | SLD/6        | -2.78 |       | SLD/6        | -3.32 |
|       | SLD/7        | -2.44 |       | SLD/7        | -1.64 |       | SLD/7        | -2.75 |       | SLD/7        | -3.28 |
|       | SLD/8        | -2.37 |       | SLD/8        | -1.60 |       | SLD/8        | -2.67 |       | SLD/8        | -3.19 |
|       | SLD/9        | -2.52 |       | SLD/9        | -1.67 |       | SLD/9        | -2.83 |       | SLD/9        | -3.37 |
|       | SLD/10       | -2.49 |       | SLD/10       | -1.66 |       | SLD/10       | -2.80 |       | SLD/10       | -3.34 |
|       | SLD/11       | -2.46 |       | SLD/11       | -1.64 |       | SLD/11       | -2.76 |       | SLD/11       | -3.29 |
|       | SLD/12       | -2.57 |       | SLD/12       | -1.70 |       | SLD/12       | -2.88 |       | SLD/12       | -3.43 |
|       | SLD/13       | -2.55 |       | SLD/13       | -1.69 |       | SLD/13       | -2.85 |       | SLD/13       | -3.40 |
|       | SLD/14       | -2.55 |       | SLD/14       | -1.69 |       | SLD/14       | -2.84 |       | SLD/14       | -3.39 |
| X+    | SLD/15       | -1.77 | X+    | SLD/15       | -1.17 | X+    | SLD/15       | -1.98 | X+    | SLD/15       | -2.38 |
| X-    | SLD/24       | -1.77 | X-    | SLD/24       | -1.17 | X-    | SLD/24       | -1.98 | X-    | SLD/24       | -2.38 |
| Y+    | SLD/31       | -1.78 | Y+    | SLD/31       | -1.17 | Y+    | SLD/31       | -1.99 | Y+    | SLD/31       | -2.39 |
| Y-    | SLD/37       | -1.78 | Y-    | SLD/37       | -1.17 | Y-    | SLD/37       | -1.99 | Y-    | SLD/37       | -2.39 |
| 217   | SLD/1        | -4.15 | 218   | SLD/1        | -2.74 | 219   | SLD/1        | -3.75 | 220   | SLD/1        | -5.03 |
|       | SLD/2        | -4.12 |       | SLD/2        | -2.72 |       | SLD/2        | -3.73 |       | SLD/2        | -4.99 |
|       | SLD/3        | -4.15 |       | SLD/3        | -2.74 |       | SLD/3        | -3.75 |       | SLD/3        | -5.03 |
|       | SLD/4        | -4.12 |       | SLD/4        | -2.72 |       | SLD/4        | -3.72 |       | SLD/4        | -4.99 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/5        | -4.07 |       | SLD/5        | -2.71 |       | SLD/5        | -3.69 |       | SLD/5        | -4.93 |
|       | SLD/6        | -4.09 |       | SLD/6        | -2.71 |       | SLD/6        | -3.71 |       | SLD/6        | -4.97 |
|       | SLD/7        | -4.06 |       | SLD/7        | -2.70 |       | SLD/7        | -3.69 |       | SLD/7        | -4.93 |
|       | SLD/8        | -3.98 |       | SLD/8        | -2.67 |       | SLD/8        | -3.63 |       | SLD/8        | -4.83 |
|       | SLD/9        | -4.15 |       | SLD/9        | -2.74 |       | SLD/9        | -3.75 |       | SLD/9        | -5.03 |
|       | SLD/10       | -4.12 |       | SLD/10       | -2.72 |       | SLD/10       | -3.73 |       | SLD/10       | -4.99 |
|       | SLD/11       | -4.07 |       | SLD/11       | -2.71 |       | SLD/11       | -3.69 |       | SLD/11       | -4.93 |
|       | SLD/12       | -4.21 |       | SLD/12       | -2.76 |       | SLD/12       | -3.79 |       | SLD/12       | -5.09 |
|       | SLD/13       | -4.18 |       | SLD/13       | -2.75 |       | SLD/13       | -3.77 |       | SLD/13       | -5.05 |
|       | SLD/14       | -4.17 |       | SLD/14       | -2.75 |       | SLD/14       | -3.76 |       | SLD/14       | -5.03 |
| X+    | SLD/15       | -2.91 | X+    | SLD/15       | -1.89 | X+    | SLD/15       | -2.60 | X+    | SLD/15       | -3.49 |
| X-    | SLD/24       | -2.91 | X-    | SLD/24       | -1.89 | X-    | SLD/24       | -2.60 | X-    | SLD/24       | -3.49 |
| Y+    | SLD/31       | -2.92 | Y+    | SLD/31       | -1.90 | Y+    | SLD/31       | -2.60 | Y+    | SLD/31       | -3.50 |
| Y-    | SLD/37       | -2.92 | Y-    | SLD/37       | -1.90 | Y-    | SLD/37       | -2.60 | Y-    | SLD/37       | -3.50 |
| 221   | SLD/1        | -3.00 | 222   | SLD/1        | -2.26 | 223   | SLD/1        | -2.54 | 224   | SLD/1        | -2.83 |
|       | SLD/2        | -2.98 |       | SLD/2        | -2.25 |       | SLD/2        | -2.54 |       | SLD/2        | -2.80 |
|       | SLD/3        | -3.00 |       | SLD/3        | -2.25 |       | SLD/3        | -2.54 |       | SLD/3        | -2.83 |
|       | SLD/4        | -2.98 |       | SLD/4        | -2.25 |       | SLD/4        | -2.54 |       | SLD/4        | -2.80 |
|       | SLD/5        | -2.96 |       | SLD/5        | -2.24 |       | SLD/5        | -2.53 |       | SLD/5        | -2.76 |
|       | SLD/6        | -2.99 |       | SLD/6        | -2.25 |       | SLD/6        | -2.54 |       | SLD/6        | -2.78 |
|       | SLD/7        | -2.97 |       | SLD/7        | -2.25 |       | SLD/7        | -2.53 |       | SLD/7        | -2.75 |
|       | SLD/8        | -2.94 |       | SLD/8        | -2.24 |       | SLD/8        | -2.52 |       | SLD/8        | -2.67 |
|       | SLD/9        | -3.00 |       | SLD/9        | -2.26 |       | SLD/9        | -2.54 |       | SLD/9        | -2.83 |
|       | SLD/10       | -2.98 |       | SLD/10       | -2.25 |       | SLD/10       | -2.54 |       | SLD/10       | -2.80 |
|       | SLD/11       | -2.96 |       | SLD/11       | -2.24 |       | SLD/11       | -2.53 |       | SLD/11       | -2.75 |
|       | SLD/12       | -3.01 |       | SLD/12       | -2.26 |       | SLD/12       | -2.55 |       | SLD/12       | -2.88 |
|       | SLD/13       | -2.99 |       | SLD/13       | -2.25 |       | SLD/13       | -2.54 |       | SLD/13       | -2.85 |
|       | SLD/14       | -2.97 |       | SLD/14       | -2.24 |       | SLD/14       | -2.53 |       | SLD/14       | -2.84 |
| X+    | SLD/21       | -2.10 | X+    | SLD/21       | -1.57 | X+    | SLD/21       | -1.75 | X+    | SLD/15       | -1.99 |
| X-    | SLD/30       | -2.10 | X-    | SLD/30       | -1.57 | X-    | SLD/30       | -1.75 | X-    | SLD/24       | -1.99 |
| Y+    | SLD/31       | -2.11 | Y+    | SLD/31       | -1.57 | Y+    | SLD/31       | -1.75 | Y+    | SLD/31       | -2.00 |
| Y-    | SLD/37       | -2.11 | Y-    | SLD/37       | -1.57 | Y-    | SLD/37       | -1.75 | Y-    | SLD/37       | -2.00 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 225   | SLD/1        | -1.67 | 226   | SLD/1        | -2.50 | 227   | SLD/1        | -3.75 | 228   | SLD/1        | -2.73 |
|       | SLD/2        | -1.66 |       | SLD/2        | -2.47 |       | SLD/2        | -3.73 |       | SLD/2        | -2.72 |
|       | SLD/3        | -1.67 |       | SLD/3        | -2.50 |       | SLD/3        | -3.75 |       | SLD/3        | -2.73 |
|       | SLD/4        | -1.66 |       | SLD/4        | -2.47 |       | SLD/4        | -3.73 |       | SLD/4        | -2.72 |
|       | SLD/5        | -1.64 |       | SLD/5        | -2.43 |       | SLD/5        | -3.69 |       | SLD/5        | -2.70 |
|       | SLD/6        | -1.65 |       | SLD/6        | -2.45 |       | SLD/6        | -3.71 |       | SLD/6        | -2.71 |
|       | SLD/7        | -1.63 |       | SLD/7        | -2.42 |       | SLD/7        | -3.69 |       | SLD/7        | -2.70 |
|       | SLD/8        | -1.60 |       | SLD/8        | -2.35 |       | SLD/8        | -3.63 |       | SLD/8        | -2.67 |
|       | SLD/9        | -1.67 |       | SLD/9        | -2.50 |       | SLD/9        | -3.75 |       | SLD/9        | -2.73 |
|       | SLD/10       | -1.66 |       | SLD/10       | -2.47 |       | SLD/10       | -3.73 |       | SLD/10       | -2.72 |
|       | SLD/11       | -1.64 |       | SLD/11       | -2.44 |       | SLD/11       | -3.69 |       | SLD/11       | -2.70 |
|       | SLD/12       | -1.70 |       | SLD/12       | -2.55 |       | SLD/12       | -3.79 |       | SLD/12       | -2.75 |
|       | SLD/13       | -1.68 |       | SLD/13       | -2.52 |       | SLD/13       | -3.77 |       | SLD/13       | -2.74 |
|       | SLD/14       | -1.68 |       | SLD/14       | -2.52 |       | SLD/14       | -3.76 |       | SLD/14       | -2.74 |
| X+    | SLD/15       | -1.16 | X+    | SLD/15       | -1.74 | X+    | SLD/15       | -2.60 | X+    | SLD/15       | -1.89 |
| X-    | SLD/24       | -1.16 | X-    | SLD/24       | -1.74 | X-    | SLD/24       | -2.60 | X-    | SLD/24       | -1.89 |
| Y+    | SLD/31       | -1.17 | Y+    | SLD/40       | -1.75 | Y+    | SLD/31       | -2.61 | Y+    | SLD/40       | -1.89 |
| Y-    | SLD/37       | -1.17 | Y-    | SLD/46       | -1.75 | Y-    | SLD/37       | -2.61 | Y-    | SLD/46       | -1.89 |
| 229   | SLD/1        | -4.12 | 230   | SLD/1        | -3.34 | 231   | SLD/1        | -2.54 | 232   | SLD/1        | -2.25 |
|       | SLD/2        | -4.09 |       | SLD/2        | -3.30 |       | SLD/2        | -2.54 |       | SLD/2        | -2.24 |
|       | SLD/3        | -4.12 |       | SLD/3        | -3.34 |       | SLD/3        | -2.54 |       | SLD/3        | -2.25 |
|       | SLD/4        | -4.09 |       | SLD/4        | -3.30 |       | SLD/4        | -2.54 |       | SLD/4        | -2.24 |
|       | SLD/5        | -4.04 |       | SLD/5        | -3.25 |       | SLD/5        | -2.53 |       | SLD/5        | -2.24 |
|       | SLD/6        | -4.07 |       | SLD/6        | -3.29 |       | SLD/6        | -2.54 |       | SLD/6        | -2.25 |
|       | SLD/7        | -4.03 |       | SLD/7        | -3.25 |       | SLD/7        | -2.53 |       | SLD/7        | -2.24 |
|       | SLD/8        | -3.95 |       | SLD/8        | -3.16 |       | SLD/8        | -2.52 |       | SLD/8        | -2.23 |
|       | SLD/9        | -4.12 |       | SLD/9        | -3.34 |       | SLD/9        | -2.54 |       | SLD/9        | -2.25 |
|       | SLD/10       | -4.09 |       | SLD/10       | -3.30 |       | SLD/10       | -2.53 |       | SLD/10       | -2.24 |
|       | SLD/11       | -4.04 |       | SLD/11       | -3.25 |       | SLD/11       | -2.53 |       | SLD/11       | -2.23 |
|       | SLD/12       | -4.17 |       | SLD/12       | -3.39 |       | SLD/12       | -2.55 |       | SLD/12       | -2.25 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/13       | -4.14 |       | SLD/13       | -3.36 |       | SLD/13       | -2.54 |       | SLD/13       | -2.24 |
|       | SLD/14       | -4.13 |       | SLD/14       | -3.34 |       | SLD/14       | -2.53 |       | SLD/14       | -2.24 |
| X+    | SLD/15       | -2.87 | X+    | SLD/15       | -2.34 | X+    | SLD/21       | -1.75 | X+    | SLD/21       | -1.56 |
| X-    | SLD/24       | -2.87 | X-    | SLD/24       | -2.34 | X-    | SLD/30       | -1.75 | X-    | SLD/30       | -1.56 |
| Y+    | SLD/40       | -2.87 | Y+    | SLD/40       | -2.34 | Y+    | SLD/40       | -1.75 | Y+    | SLD/40       | -1.56 |
| Y-    | SLD/46       | -2.87 | Y-    | SLD/46       | -2.34 | Y-    | SLD/46       | -1.75 | Y-    | SLD/46       | -1.56 |
| 233   | SLD/1        | -2.99 | 234   | SLD/1        | -2.21 | 235   | SLD/1        | -2.05 | 236   | SLD/1        | -1.99 |
|       | SLD/2        | -2.97 |       | SLD/2        | -2.20 |       | SLD/2        | -2.04 |       | SLD/2        | -1.98 |
|       | SLD/3        | -2.99 |       | SLD/3        | -2.21 |       | SLD/3        | -2.05 |       | SLD/3        | -1.99 |
|       | SLD/4        | -2.97 |       | SLD/4        | -2.20 |       | SLD/4        | -2.04 |       | SLD/4        | -1.98 |
|       | SLD/5        | -2.94 |       | SLD/5        | -2.20 |       | SLD/5        | -2.04 |       | SLD/5        | -1.98 |
|       | SLD/6        | -2.98 |       | SLD/6        | -2.22 |       | SLD/6        | -2.06 |       | SLD/6        | -2.00 |
|       | SLD/7        | -2.96 |       | SLD/7        | -2.21 |       | SLD/7        | -2.05 |       | SLD/7        | -2.00 |
|       | SLD/8        | -2.93 |       | SLD/8        | -2.21 |       | SLD/8        | -2.05 |       | SLD/8        | -1.99 |
|       | SLD/9        | -2.99 |       | SLD/9        | -2.21 |       | SLD/9        | -2.05 |       | SLD/9        | -1.99 |
|       | SLD/10       | -2.97 |       | SLD/10       | -2.20 |       | SLD/10       | -2.04 |       | SLD/10       | -1.98 |
|       | SLD/11       | -2.94 |       | SLD/11       | -2.20 |       | SLD/11       | -2.04 |       | SLD/11       | -1.97 |
|       | SLD/12       | -2.99 |       | SLD/12       | -2.20 |       | SLD/12       | -2.04 |       | SLD/12       | -1.98 |
|       | SLD/13       | -2.97 |       | SLD/13       | -2.20 |       | SLD/13       | -2.03 |       | SLD/13       | -1.97 |
|       | SLD/14       | -2.95 |       | SLD/14       | -2.18 |       | SLD/14       | -2.02 |       | SLD/14       | -1.95 |
| X+    | SLD/15       | -2.08 | X+    | SLD/21       | -1.53 | X+    | SLD/21       | -1.43 | X+    | SLD/20       | -1.39 |
| X-    | SLD/24       | -2.08 | X-    | SLD/30       | -1.53 | X-    | SLD/30       | -1.43 | X-    | SLD/27       | -1.39 |
| Y+    | SLD/40       | -2.08 | Y+    | SLD/31       | -1.53 | Y+    | SLD/40       | -1.43 | Y+    | SLD/41       | -1.39 |
| Y-    | SLD/46       | -2.08 | Y-    | SLD/37       | -1.53 | Y-    | SLD/46       | -1.43 | Y-    | SLD/43       | -1.39 |
| 237   | SLD/1        | -2.28 | 238   | SLD/1        | -1.41 | 239   | SLD/1        | -1.09 | 240   | SLD/1        | -1.12 |
|       | SLD/2        | -2.27 |       | SLD/2        | -1.40 |       | SLD/2        | -1.09 |       | SLD/2        | -1.11 |
|       | SLD/3        | -2.29 |       | SLD/3        | -1.41 |       | SLD/3        | -1.09 |       | SLD/3        | -1.12 |
|       | SLD/4        | -2.27 |       | SLD/4        | -1.40 |       | SLD/4        | -1.09 |       | SLD/4        | -1.11 |
|       | SLD/5        | -2.26 |       | SLD/5        | -1.39 |       | SLD/5        | -1.08 |       | SLD/5        | -1.11 |
|       | SLD/6        | -2.30 |       | SLD/6        | -1.42 |       | SLD/6        | -1.10 |       | SLD/6        | -1.13 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/7        | -2.29 |       | SLD/7        | -1.41 |       | SLD/7        | -1.10 |       | SLD/7        | -1.13 |
|       | SLD/8        | -2.28 |       | SLD/8        | -1.40 |       | SLD/8        | -1.11 |       | SLD/8        | -1.14 |
|       | SLD/9        | -2.28 |       | SLD/9        | -1.41 |       | SLD/9        | -1.09 |       | SLD/9        | -1.12 |
|       | SLD/10       | -2.27 |       | SLD/10       | -1.40 |       | SLD/10       | -1.09 |       | SLD/10       | -1.11 |
|       | SLD/11       | -2.25 |       | SLD/11       | -1.38 |       | SLD/11       | -1.08 |       | SLD/11       | -1.11 |
|       | SLD/12       | -2.27 |       | SLD/12       | -1.40 |       | SLD/12       | -1.07 |       | SLD/12       | -1.10 |
|       | SLD/13       | -2.26 |       | SLD/13       | -1.39 |       | SLD/13       | -1.07 |       | SLD/13       | -1.10 |
|       | SLD/14       | -2.23 |       | SLD/14       | -1.37 |       | SLD/14       | -1.06 |       | SLD/14       | -1.08 |
| X+    | SLD/20       | -1.60 | X+    | SLD/20       | -0.99 | X+    | SLD/20       | -0.77 | X+    | SLD/20       | -0.79 |
| X-    | SLD/27       | -1.60 | X-    | SLD/27       | -0.99 | X-    | SLD/27       | -0.77 | X-    | SLD/27       | -0.79 |
| Y+    | SLD/41       | -1.60 | Y+    | SLD/41       | -0.99 | Y+    | SLD/41       | -0.77 | Y+    | SLD/41       | -0.79 |
| Y-    | SLD/43       | -1.60 | Y-    | SLD/43       | -0.99 | Y-    | SLD/43       | -0.77 | Y-    | SLD/43       | -0.79 |
| 241   | SLD/1        | -1.16 | 242   | SLD/1        | -1.42 | 243   | SLD/1        | -2.29 | 244   | SLD/1        | -2.00 |
|       | SLD/2        | -1.15 |       | SLD/2        | -1.41 |       | SLD/2        | -2.28 |       | SLD/2        | -1.99 |
|       | SLD/3        | -1.16 |       | SLD/3        | -1.42 |       | SLD/3        | -2.29 |       | SLD/3        | -1.99 |
|       | SLD/4        | -1.15 |       | SLD/4        | -1.41 |       | SLD/4        | -2.28 |       | SLD/4        | -1.99 |
|       | SLD/5        | -1.15 |       | SLD/5        | -1.39 |       | SLD/5        | -2.26 |       | SLD/5        | -1.98 |
|       | SLD/6        | -1.17 |       | SLD/6        | -1.42 |       | SLD/6        | -2.31 |       | SLD/6        | -2.01 |
|       | SLD/7        | -1.17 |       | SLD/7        | -1.42 |       | SLD/7        | -2.29 |       | SLD/7        | -2.00 |
|       | SLD/8        | -1.18 |       | SLD/8        | -1.41 |       | SLD/8        | -2.29 |       | SLD/8        | -2.00 |
|       | SLD/9        | -1.15 |       | SLD/9        | -1.42 |       | SLD/9        | -2.30 |       | SLD/9        | -2.00 |
|       | SLD/10       | -1.15 |       | SLD/10       | -1.41 |       | SLD/10       | -2.29 |       | SLD/10       | -1.99 |
|       | SLD/11       | -1.14 |       | SLD/11       | -1.40 |       | SLD/11       | -2.27 |       | SLD/11       | -1.98 |
|       | SLD/12       | -1.14 |       | SLD/12       | -1.41 |       | SLD/12       | -2.28 |       | SLD/12       | -1.98 |
|       | SLD/13       | -1.13 |       | SLD/13       | -1.40 |       | SLD/13       | -2.27 |       | SLD/13       | -1.98 |
|       | SLD/14       | -1.11 |       | SLD/14       | -1.38 |       | SLD/14       | -2.25 |       | SLD/14       | -1.96 |
| X+    | SLD/20       | -0.81 | X+    | SLD/20       | -1.00 | X+    | SLD/20       | -1.61 | X+    | SLD/20       | -1.40 |
| X-    | SLD/27       | -0.81 | X-    | SLD/27       | -1.00 | X-    | SLD/27       | -1.61 | X-    | SLD/27       | -1.40 |
| Y+    | SLD/41       | -0.81 | Y+    | SLD/34       | -1.00 | Y+    | SLD/34       | -1.61 | Y+    | SLD/34       | -1.40 |
| Y-    | SLD/43       | -0.81 | Y-    | SLD/36       | -1.00 | Y-    | SLD/36       | -1.61 | Y-    | SLD/36       | -1.40 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
| 245   | SLD/1        | -2.05 | 246   | SLD/1        | -1.16 | 247   | SLD/1        | -1.12 | 248   | SLD/1        | -1.09 |
|       | SLD/2        | -2.05 |       | SLD/2        | -1.16 |       | SLD/2        | -1.12 |       | SLD/2        | -1.09 |
|       | SLD/3        | -2.05 |       | SLD/3        | -1.16 |       | SLD/3        | -1.12 |       | SLD/3        | -1.09 |
|       | SLD/4        | -2.05 |       | SLD/4        | -1.16 |       | SLD/4        | -1.12 |       | SLD/4        | -1.09 |
|       | SLD/5        | -2.04 |       | SLD/5        | -1.15 |       | SLD/5        | -1.11 |       | SLD/5        | -1.08 |
|       | SLD/6        | -2.06 |       | SLD/6        | -1.18 |       | SLD/6        | -1.14 |       | SLD/6        | -1.10 |
|       | SLD/7        | -2.05 |       | SLD/7        | -1.17 |       | SLD/7        | -1.13 |       | SLD/7        | -1.10 |
|       | SLD/8        | -2.05 |       | SLD/8        | -1.18 |       | SLD/8        | -1.14 |       | SLD/8        | -1.11 |
|       | SLD/9        | -2.05 |       | SLD/9        | -1.16 |       | SLD/9        | -1.12 |       | SLD/9        | -1.09 |
|       | SLD/10       | -2.05 |       | SLD/10       | -1.16 |       | SLD/10       | -1.12 |       | SLD/10       | -1.09 |
|       | SLD/11       | -2.04 |       | SLD/11       | -1.15 |       | SLD/11       | -1.11 |       | SLD/11       | -1.08 |
|       | SLD/12       | -2.04 |       | SLD/12       | -1.14 |       | SLD/12       | -1.10 |       | SLD/12       | -1.08 |
|       | SLD/13       | -2.04 |       | SLD/13       | -1.14 |       | SLD/13       | -1.10 |       | SLD/13       | -1.07 |
|       | SLD/14       | -2.02 |       | SLD/14       | -1.12 |       | SLD/14       | -1.08 |       | SLD/14       | -1.06 |
| X+    | SLD/21       | -1.43 | X+    | SLD/20       | -0.82 | X+    | SLD/20       | -0.79 | X+    | SLD/20       | -0.77 |
| X-    | SLD/30       | -1.43 | X-    | SLD/27       | -0.82 | X-    | SLD/27       | -0.79 | X-    | SLD/27       | -0.77 |
| Y+    | SLD/31       | -1.43 | Y+    | SLD/34       | -0.82 | Y+    | SLD/34       | -0.79 | Y+    | SLD/34       | -0.77 |
| Y-    | SLD/37       | -1.43 | Y-    | SLD/36       | -0.82 | Y-    | SLD/36       | -0.79 | Y-    | SLD/36       | -0.77 |
| 283   | SLD/1        | -4.66 | 284   | SLD/1        | -4.56 | 285   | SLD/1        | -4.59 | 286   | SLD/1        | -4.09 |
|       | SLD/2        | -4.61 |       | SLD/2        | -4.51 |       | SLD/2        | -4.54 |       | SLD/2        | -4.05 |
|       | SLD/3        | -4.65 |       | SLD/3        | -4.55 |       | SLD/3        | -4.58 |       | SLD/3        | -4.08 |
|       | SLD/4        | -4.60 |       | SLD/4        | -4.50 |       | SLD/4        | -4.53 |       | SLD/4        | -4.04 |
|       | SLD/5        | -4.51 |       | SLD/5        | -4.41 |       | SLD/5        | -4.44 |       | SLD/5        | -3.97 |
|       | SLD/6        | -4.53 |       | SLD/6        | -4.44 |       | SLD/6        | -4.48 |       | SLD/6        | -4.01 |
|       | SLD/7        | -4.47 |       | SLD/7        | -4.38 |       | SLD/7        | -4.42 |       | SLD/7        | -3.97 |
|       | SLD/8        | -4.30 |       | SLD/8        | -4.22 |       | SLD/8        | -4.26 |       | SLD/8        | -3.86 |
|       | SLD/9        | -4.67 |       | SLD/9        | -4.57 |       | SLD/9        | -4.60 |       | SLD/9        | -4.10 |
|       | SLD/10       | -4.62 |       | SLD/10       | -4.52 |       | SLD/10       | -4.54 |       | SLD/10       | -4.06 |
|       | SLD/11       | -4.55 |       | SLD/11       | -4.44 |       | SLD/11       | -4.47 |       | SLD/11       | -4.00 |
|       | SLD/12       | -4.81 |       | SLD/12       | -4.69 |       | SLD/12       | -4.71 |       | SLD/12       | -4.17 |
|       | SLD/13       | -4.75 |       | SLD/13       | -4.64 |       | SLD/13       | -4.66 |       | SLD/13       | -4.13 |
|       | SLD/14       | -4.77 |       | SLD/14       | -4.65 |       | SLD/14       | -4.66 |       | SLD/14       | -4.12 |

RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | X+ SLD/15    | -3.32 |       | X+ SLD/15    | -3.24 |       | X+ SLD/15    | -3.25 |       | X+ SLD/15    | -2.91 |
|       | X- SLD/24    | -3.32 |       | X- SLD/24    | -3.24 |       | X- SLD/24    | -3.25 |       | X- SLD/24    | -2.91 |
|       | Y+ SLD/31    | -3.36 |       | Y+ SLD/31    | -3.28 |       | Y+ SLD/31    | -3.29 |       | Y+ SLD/31    | -2.93 |
|       | Y- SLD/37    | -3.36 |       | Y- SLD/37    | -3.28 |       | Y- SLD/37    | -3.29 |       | Y- SLD/37    | -2.93 |
| 287   | SLD/1        | -6.35 | 288   | SLD/1        | -4.56 | 289   | SLD/1        | -3.79 | 290   | SLD/1        | -3.66 |
|       | SLD/2        | -6.29 |       | SLD/2        | -4.52 |       | SLD/2        | -3.76 |       | SLD/2        | -3.62 |
|       | SLD/3        | -6.33 |       | SLD/3        | -4.55 |       | SLD/3        | -3.78 |       | SLD/3        | -3.65 |
|       | SLD/4        | -6.27 |       | SLD/4        | -4.52 |       | SLD/4        | -3.76 |       | SLD/4        | -3.61 |
|       | SLD/5        | -6.18 |       | SLD/5        | -4.46 |       | SLD/5        | -3.72 |       | SLD/5        | -3.55 |
|       | SLD/6        | -6.24 |       | SLD/6        | -4.50 |       | SLD/6        | -3.75 |       | SLD/6        | -3.65 |
|       | SLD/7        | -6.19 |       | SLD/7        | -4.47 |       | SLD/7        | -3.72 |       | SLD/7        | -3.62 |
|       | SLD/8        | -6.03 |       | SLD/8        | -4.38 |       | SLD/8        | -3.66 |       | SLD/8        | -3.56 |
|       | SLD/9        | -6.36 |       | SLD/9        | -4.56 |       | SLD/9        | -3.79 |       | SLD/9        | -3.67 |
|       | SLD/10       | -6.30 |       | SLD/10       | -4.53 |       | SLD/10       | -3.77 |       | SLD/10       | -3.63 |
|       | SLD/11       | -6.22 |       | SLD/11       | -4.48 |       | SLD/11       | -3.73 |       | SLD/11       | -3.58 |
|       | SLD/12       | -6.45 |       | SLD/12       | -4.61 |       | SLD/12       | -3.83 |       | SLD/12       | -3.66 |
|       | SLD/13       | -6.40 |       | SLD/13       | -4.58 |       | SLD/13       | -3.80 |       | SLD/13       | -3.63 |
|       | SLD/14       | -6.38 |       | SLD/14       | -4.57 |       | SLD/14       | -3.79 |       | SLD/14       | -3.58 |
|       | X+ SLD/15    | -4.50 |       | X+ SLD/15    | -3.20 |       | X+ SLD/15    | -2.64 |       | X+ SLD/15    | -2.59 |
|       | X- SLD/24    | -4.50 |       | X- SLD/24    | -3.20 |       | X- SLD/24    | -2.64 |       | X- SLD/24    | -2.59 |
|       | Y+ SLD/31    | -4.53 |       | Y+ SLD/31    | -3.22 |       | Y+ SLD/31    | -2.66 |       | Y+ SLD/31    | -2.59 |
|       | Y- SLD/37    | -4.53 |       | Y- SLD/37    | -3.22 |       | Y- SLD/37    | -2.66 |       | Y- SLD/37    | -2.59 |
| 291   | SLD/1        | -5.21 | 292   | SLD/1        | -2.96 | 293   | SLD/1        | -1.86 | 294   | SLD/1        | -3.50 |
|       | SLD/2        | -5.17 |       | SLD/2        | -2.95 |       | SLD/2        | -1.87 |       | SLD/2        | -3.46 |
|       | SLD/3        | -5.20 |       | SLD/3        | -2.96 |       | SLD/3        | -1.87 |       | SLD/3        | -3.49 |
|       | SLD/4        | -5.16 |       | SLD/4        | -2.95 |       | SLD/4        | -1.87 |       | SLD/4        | -3.45 |
|       | SLD/5        | -5.09 |       | SLD/5        | -2.94 |       | SLD/5        | -1.88 |       | SLD/5        | -3.40 |
|       | SLD/6        | -5.20 |       | SLD/6        | -2.96 |       | SLD/6        | -1.86 |       | SLD/6        | -3.56 |
|       | SLD/7        | -5.16 |       | SLD/7        | -2.95 |       | SLD/7        | -1.87 |       | SLD/7        | -3.53 |
|       | SLD/8        | -5.10 |       | SLD/8        | -2.94 |       | SLD/8        | -1.88 |       | SLD/8        | -3.51 |



RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   |
|       | SLD/9        | -5.22 |       | SLD/9        | -2.96 |       | SLD/9        | -1.86 |       | SLD/9        | -3.51 |
|       | SLD/10       | -5.18 |       | SLD/10       | -2.96 |       | SLD/10       | -1.87 |       | SLD/10       | -3.47 |
|       | SLD/11       | -5.12 |       | SLD/11       | -2.95 |       | SLD/11       | -1.88 |       | SLD/11       | -3.43 |
|       | SLD/12       | -5.21 |       | SLD/12       | -2.96 |       | SLD/12       | -1.86 |       | SLD/12       | -3.43 |
|       | SLD/13       | -5.17 |       | SLD/13       | -2.96 |       | SLD/13       | -1.87 |       | SLD/13       | -3.40 |
|       | SLD/14       | -5.12 |       | SLD/14       | -2.95 |       | SLD/14       | -1.88 |       | SLD/14       | -3.30 |
| X+    | SLD/15       | -3.67 | X+    | SLD/15       | -2.06 | X+    | SLD/21       | -1.27 | X+    | SLD/20       | -2.49 |
| X-    | SLD/24       | -3.67 | X-    | SLD/24       | -2.06 | X-    | SLD/30       | -1.27 | X-    | SLD/27       | -2.49 |
| Y+    | SLD/31       | -3.67 | Y+    | SLD/31       | -2.06 | Y+    | SLD/40       | -1.27 | Y+    | SLD/34       | -2.51 |
| Y-    | SLD/37       | -3.67 | Y-    | SLD/37       | -2.06 | Y-    | SLD/46       | -1.27 | Y-    | SLD/36       | -2.51 |
| 295   | SLD/1        | -5.57 | 296   | SLD/1        | -4.18 | 297   | SLD/1        | -3.58 | 298   | SLD/1        | -3.53 |
|       | SLD/2        | -5.52 |       | SLD/2        | -4.15 |       | SLD/2        | -3.56 |       | SLD/2        | -3.49 |
|       | SLD/3        | -5.56 |       | SLD/3        | -4.17 |       | SLD/3        | -3.58 |       | SLD/3        | -3.52 |
|       | SLD/4        | -5.51 |       | SLD/4        | -4.14 |       | SLD/4        | -3.55 |       | SLD/4        | -3.48 |
|       | SLD/5        | -5.43 |       | SLD/5        | -4.09 |       | SLD/5        | -3.51 |       | SLD/5        | -3.41 |
|       | SLD/6        | -5.65 |       | SLD/6        | -4.22 |       | SLD/6        | -3.61 |       | SLD/6        | -3.65 |
|       | SLD/7        | -5.60 |       | SLD/7        | -4.19 |       | SLD/7        | -3.58 |       | SLD/7        | -3.61 |
|       | SLD/8        | -5.58 |       | SLD/8        | -4.17 |       | SLD/8        | -3.56 |       | SLD/8        | -3.63 |
|       | SLD/9        | -5.58 |       | SLD/9        | -4.18 |       | SLD/9        | -3.58 |       | SLD/9        | -3.54 |
|       | SLD/10       | -5.53 |       | SLD/10       | -4.15 |       | SLD/10       | -3.56 |       | SLD/10       | -3.50 |
|       | SLD/11       | -5.47 |       | SLD/11       | -4.11 |       | SLD/11       | -3.52 |       | SLD/11       | -3.45 |
|       | SLD/12       | -5.48 |       | SLD/12       | -4.13 |       | SLD/12       | -3.55 |       | SLD/12       | -3.41 |
|       | SLD/13       | -5.43 |       | SLD/13       | -4.10 |       | SLD/13       | -3.53 |       | SLD/13       | -3.37 |
|       | SLD/14       | -5.30 |       | SLD/14       | -4.03 |       | SLD/14       | -3.48 |       | SLD/14       | -3.22 |
| X+    | SLD/20       | -3.95 | X+    | SLD/20       | -2.93 | X+    | SLD/18       | -2.49 | X+    | SLD/20       | -2.51 |
| X-    | SLD/27       | -3.95 | X-    | SLD/27       | -2.93 | X-    | SLD/25       | -2.49 | X-    | SLD/27       | -2.51 |
| Y+    | SLD/34       | -3.98 | Y+    | SLD/34       | -2.94 | Y+    | SLD/34       | -2.50 | Y+    | SLD/34       | -2.55 |
| Y-    | SLD/36       | -3.98 | Y-    | SLD/36       | -2.94 | Y-    | SLD/36       | -2.50 | Y-    | SLD/36       | -2.55 |
| 299   | SLD/1        | -3.57 | 300   | SLD/1        | -3.69 |       |              |       |       |              |       |
|       | SLD/2        | -3.52 |       | SLD/2        | -3.65 |       |              |       |       |              |       |

**RISULTANTI SOLLECITAZIONI NODI PLATEE - SLD**

| Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz    | Nod3d | Combinazione | Fz  | Nod3d | Combinazione | Fz  |
|-------|--------------|-------|-------|--------------|-------|-------|--------------|-----|-------|--------------|-----|
| N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t)   | N.ro  | N.ro         | (t) | N.ro  | N.ro         | (t) |
|       | SLD/3        | -3.56 |       | SLD/3        | -3.69 |       |              |     |       |              |     |
|       | SLD/4        | -3.52 |       | SLD/4        | -3.64 |       |              |     |       |              |     |
|       | SLD/5        | -3.44 |       | SLD/5        | -3.56 |       |              |     |       |              |     |
|       | SLD/6        | -3.67 |       | SLD/6        | -3.78 |       |              |     |       |              |     |
|       | SLD/7        | -3.63 |       | SLD/7        | -3.73 |       |              |     |       |              |     |
|       | SLD/8        | -3.63 |       | SLD/8        | -3.72 |       |              |     |       |              |     |
|       | SLD/9        | -3.58 |       | SLD/9        | -3.70 |       |              |     |       |              |     |
|       | SLD/10       | -3.53 |       | SLD/10       | -3.65 |       |              |     |       |              |     |
|       | SLD/11       | -3.47 |       | SLD/11       | -3.59 |       |              |     |       |              |     |
|       | SLD/12       | -3.46 |       | SLD/12       | -3.60 |       |              |     |       |              |     |
|       | SLD/13       | -3.42 |       | SLD/13       | -3.55 |       |              |     |       |              |     |
|       | SLD/14       | -3.28 |       | SLD/14       | -3.41 |       |              |     |       |              |     |
| X+    | SLD/20       | -2.53 | X+    | SLD/20       | -2.60 |       |              |     |       |              |     |
| X-    | SLD/27       | -2.53 | X-    | SLD/27       | -2.60 |       |              |     |       |              |     |
| Y+    | SLD/34       | -2.56 | Y+    | SLD/34       | -2.63 |       |              |     |       |              |     |
| Y-    | SLD/36       | -2.56 | Y-    | SLD/36       | -2.63 |       |              |     |       |              |     |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |       | CONDIZIONE DRENATA |                    |                    |       |                    |        |        | NON DRENATA        |                    |
|----------------|--------|-------|-------|--------------------|--------------------|--------------------|-------|--------------------|--------|--------|--------------------|--------------------|
| Piast          | Infiss | Tipo  | Gamma | Fi'                | C'                 | Mod.El             | Poiss | P base             | Indice | IndRig | Cu                 | P base             |
| N.ro           | m      | Tabel | kg/mc | Grd                | kg/cm <sup>q</sup> | kg/cm <sup>q</sup> | on    | kg/cm <sup>q</sup> | Rigid. | Crit.  | kg/cm <sup>q</sup> | kg/cm <sup>q</sup> |
| 1              | 2.25   | M1    | 1700  | 24.00              | 0.50               | 50.00              | 0.20  | 0.38               | 30.17  | 40.26  |                    |                    |
| 2              | 2.25   | M1    | 1700  | 24.00              | 0.50               | 50.00              | 0.20  | 0.38               | 29.80  | 40.26  |                    |                    |
| 3              | 2.25   | M1    | 1700  | 24.00              | 0.50               | 50.00              | 0.20  | 0.38               | 29.94  | 40.26  |                    |                    |
| 4              | 2.25   | M1    | 1700  | 24.00              | 0.50               | 50.00              | 0.20  | 0.38               | 29.48  | 40.26  |                    |                    |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 5              | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.17  | 40.26  |             |        |
| 6              | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.94  | 40.26  |             |        |
| 7              | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 8              | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.37  | 40.26  |             |        |
| 9              | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.37  | 40.26  |             |        |
| 10             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 11             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.91  | 40.26  |             |        |
| 12             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.69  | 40.26  |             |        |
| 13             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.60  | 40.26  |             |        |
| 14             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 15             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 16             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.60  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 17             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.08  | 40.26  |             |        |
| 18             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.69  | 40.26  |             |        |
| 19             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.08  | 40.26  |             |        |
| 20             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |
| 21             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.67  | 40.26  |             |        |
| 22             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.62  | 40.26  |             |        |
| 23             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.57  | 40.26  |             |        |
| 24             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.16  | 40.26  |             |        |
| 25             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.18  | 40.26  |             |        |
| 26             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.17  | 40.26  |             |        |
| 27             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.16  | 40.26  |             |        |
| 28             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.17  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 29             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.22  | 40.26  |             |        |
| 30             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.26  | 40.26  |             |        |
| 31             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 32             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.16  | 40.26  |             |        |
| 33             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.20  | 40.26  |             |        |
| 34             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.21  | 40.26  |             |        |
| 35             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.22  | 40.26  |             |        |
| 36             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.72  | 40.26  |             |        |
| 37             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.72  | 40.26  |             |        |
| 38             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.72  | 40.26  |             |        |
| 39             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.38  | 40.26  |             |        |
| 40             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.84  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 41             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 42             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 43             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 44             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.01  | 40.26  |             |        |
| 45             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.58  | 40.26  |             |        |
| 46             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.57  | 40.26  |             |        |
| 47             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.56  | 40.26  |             |        |
| 48             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 49             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 50             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 51             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 52             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 53             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.96  | 40.26  |             |        |
| 54             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.53  | 40.26  |             |        |
| 55             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.53  | 40.26  |             |        |
| 56             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.54  | 40.26  |             |        |
| 57             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 58             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 59             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 60             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 61             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 62             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 63             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 64             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 65             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 66             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 67             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 68             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.58  | 40.26  |             |        |
| 69             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 70             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 71             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 72             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.58  | 40.26  |             |        |
| 73             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 74             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 75             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.55  | 40.26  |             |        |
| 76             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.58  | 40.26  |             |        |



**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 77             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 78             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 79             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.98  | 40.26  |             |        |
| 80             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.10  | 40.26  |             |        |
| 81             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.47  | 40.26  |             |        |
| 82             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.52  | 40.26  |             |        |
| 83             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.58  | 40.26  |             |        |
| 84             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.60  | 40.26  |             |        |
| 85             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.03  | 40.26  |             |        |
| 86             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 87             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.06  | 40.26  |             |        |
| 88             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 89             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.22  | 40.26  |             |        |
| 90             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 91             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.10  | 40.26  |             |        |
| 92             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.05  | 40.26  |             |        |
| 93             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.14  | 40.26  |             |        |
| 94             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 95             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.08  | 40.26  |             |        |
| 96             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 97             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.62  | 40.26  |             |        |
| 98             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.64  | 40.26  |             |        |
| 99             | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.64  | 40.26  |             |        |
| 100            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 101            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.59  | 40.26  |             |        |
| 102            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.59  | 40.26  |             |        |
| 103            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.59  | 40.26  |             |        |
| 104            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.62  | 40.26  |             |        |
| 105            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 106            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 107            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 108            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.05  | 40.26  |             |        |
| 109            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 110            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 111            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 112            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.05  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 113            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 114            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 115            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.01  | 40.26  |             |        |
| 116            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.05  | 40.26  |             |        |
| 117            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.59  | 40.26  |             |        |
| 118            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.59  | 40.26  |             |        |
| 119            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.59  | 40.26  |             |        |
| 120            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.62  | 40.26  |             |        |
| 121            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.65  | 40.26  |             |        |
| 122            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.65  | 40.26  |             |        |
| 123            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.65  | 40.26  |             |        |
| 124            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.63  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 125            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 126            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 127            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 128            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.07  | 40.26  |             |        |
| 129            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 130            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 131            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 132            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.07  | 40.26  |             |        |
| 133            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 134            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 135            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.09  | 40.26  |             |        |
| 136            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.07  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 137            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.65  | 40.26  |             |        |
| 138            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.65  | 40.26  |             |        |
| 139            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.65  | 40.26  |             |        |
| 140            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.63  | 40.26  |             |        |
| 141            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 142            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 143            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 144            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.03  | 40.26  |             |        |
| 145            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 146            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 147            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 148            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 149            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 150            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 151            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 152            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 153            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 154            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 155            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.04  | 40.26  |             |        |
| 156            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 157            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 158            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 159            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.61  | 40.26  |             |        |
| 160            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.03  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 161            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |
| 162            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |
| 163            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |
| 164            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |
| 165            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 166            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 167            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 168            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 169            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.48  | 40.26  |             |        |
| 170            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.48  | 40.26  |             |        |
| 171            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.48  | 40.26  |             |        |
| 172            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |



**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 173            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |
| 174            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |
| 175            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 176            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 177            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.30  | 40.26  |             |        |
| 178            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.80  | 40.26  |             |        |
| 179            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.48  | 40.26  |             |        |
| 180            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.48  | 40.26  |             |        |
| 181            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.48  | 40.26  |             |        |
| 182            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |
| 183            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |
| 184            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 185            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |
| 186            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 187            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 188            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 189            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 190            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 191            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |
| 192            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |
| 193            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.70  | 40.26  |             |        |
| 194            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 195            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |
| 196            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 30.09  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 197            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |
| 198            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |
| 199            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |
| 200            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |
| 201            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 202            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 203            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 204            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |
| 205            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 206            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 207            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 208            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |

**PARAMETRI GEOTECNICI PIASTRE WINKLER - S.L.U.**

| IDENTIFICATIVO |        |       |           | CONDIZIONE DRENATA |        |        |       |        |        |        | NON DRENATA |        |
|----------------|--------|-------|-----------|--------------------|--------|--------|-------|--------|--------|--------|-------------|--------|
| Piast          | Infiss | Tipo  | Gam<br>ma | Fi'                | C'     | Mod.El | Poiss | P base | Indice | IndRig | Cu          | P base |
| N.ro           | m      | Tabel | kg/mc     | Grd                | kg/cmq | kg/cmq | on    | kg/cmq | Rigid. | Crit.  | kg/cmq      | kg/cmq |
| 209            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 210            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 211            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.13  | 40.26  |             |        |
| 212            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |
| 213            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |
| 214            | 2.25   | M1    | 1700      | 24.00              | 0.50   | 50.00  | 0.20  | 0.38   | 29.68  | 40.26  |             |        |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piast<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Igk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|--------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|              | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
| 1            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00        | 0.99           | 1.00 | 0.99 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00        | 0.98           | 0.98 | 0.97 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.91           | 0.92 | 0.88 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.91           | 0.92 | 0.88 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 2             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.96 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.90           | 0.91 | 0.86 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.90           | 0.91 | 0.86 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 3             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 4             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 5             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.92 | 0.88 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.92 | 0.88 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.47         | 1.42 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 6             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.93 | 0.94 | 0.90         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.93 | 0.94 | 0.90         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 7             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 8             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.49 | 1.44 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.90 | 0.90 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
| 9             | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.94           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.95           | 0.95 | 0.92 | 1.49         | 1.44 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.90 | 0.90 |
| 10            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.91           | 0.92 | 0.87 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.91           | 0.92 | 0.88 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.91           | 0.92 | 0.87 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.91           | 0.92 | 0.87 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 11            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.92           | 0.92 | 0.88 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.92           | 0.92 | 0.88 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.91           | 0.92 | 0.87 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.91           | 0.92 | 0.87 | 1.44         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 12            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 13            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.95           | 0.95 | 0.93 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 14            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.95            | 0.96            | 0.93            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.95            | 0.96            | 0.93            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.95            | 0.96            | 0.93            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.95            | 0.96            | 0.93            | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 15            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.95            | 0.95            | 0.93            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 16            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/15                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.93 | 0.94 | 0.90         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.93 | 0.94 | 0.90         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 17            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.92 | 0.88 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.92 | 0.88 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 18            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 19            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 20            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 21            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/15                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/31                   | 1.00           | 0.91 | 0.92 | 0.87         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/37                   | 1.00           | 0.91 | 0.92 | 0.87         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 22            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/15                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/31                   | 1.00           | 0.91 | 0.92 | 0.87         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/37                   | 1.00           | 0.91 | 0.92 | 0.87         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 23            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 24            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | X+           | A1/21                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/30                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/31                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/37                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 25            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+           | A1/21                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/30                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/31                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/37                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 26            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 27            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 28            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 29            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 30            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00            | 1.00            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00            | 1.00            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00            | 1.00            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00            | 1.00            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00            | 0.97            | 0.97            | 0.96         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00            | 0.97            | 0.97            | 0.96         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00            | 0.97            | 0.97            | 0.96         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00            | 0.97            | 0.97            | 0.96         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 31            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/18     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/25     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 34            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/18     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/25     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 35            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 36            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 37            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.93 | 0.94 | 0.90         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.93 | 0.94 | 0.90         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 38            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.93 | 0.94 | 0.89         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.93 | 0.94 | 0.89         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 39            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96           | 0.96 | 0.93 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96           | 0.96 | 0.93 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.40         | 1.36 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 40            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 41            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 42            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 43            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 44            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 45            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.96           | 0.96 | 0.93 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.96           | 0.96 | 0.93 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 46            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 47            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 48            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 49            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 50            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 51            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 52            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 53            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 54            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 55            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/18                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/25                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 56            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/18                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/25                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 57            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/18     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/25     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 58            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Igk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | X+           | A1/20       | 1.00           | 0.93 | 0.94 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27       | 1.00           | 0.93 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34       | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36       | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 59            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5        | 1.00           | 1.00 | 1.00 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6        | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7        | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8        | 1.00           | 0.98 | 0.98 | 0.97         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10       | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11       | 1.00           | 1.00 | 1.00 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12       | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/13       | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/14       | 1.00           | 0.98 | 0.98 | 0.97         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+           | A1/20       | 1.00           | 0.93 | 0.94 | 0.90         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27       | 1.00           | 0.93 | 0.94 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/34       | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36       | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 60            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5        | 1.00           | 1.00 | 1.00 | 0.99         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6        | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7        | 1.00           | 0.99 | 0.99 | 0.98         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8        | 1.00           | 0.98 | 0.98 | 0.97         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9        | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10       | 1.00           | 1.00 | 1.00 | 1.00         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 61            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 62            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 63            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 64            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 65            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |





**Engineering & Construction**



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 – fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
 UNI EN ISO 9001:2015  
 UNI EN ISO 14001:2015  
 OHSAS 18001:2007

GRE CODE

**GRE.EEC.R.25.IT.W.15001.00.103.00**

PAGE

369 di/of 501

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 66            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 67            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.96           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 68            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.96           | 0.96 | 0.93 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.96           | 0.96 | 0.93 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 69            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 70            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 71            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |



Engineering & Construction



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 – fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

372 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 72            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.96 | 0.93         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 73            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
| A1/2          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/3          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/4          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/5          | 1.00          | 1.00 | 1.00 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/6          | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/7          | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/8          | 1.00          | 0.98 | 0.99 | 0.98          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/9          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/10         | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/11         | 1.00          | 1.00 | 1.00 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/12         | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/13         | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/14         | 1.00          | 0.98 | 0.99 | 0.98          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| X+ A1/18      | 1.00          | 0.94 | 0.95 | 0.91          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| X- A1/25      | 1.00          | 0.94 | 0.95 | 0.91          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| Y+ A1/34      | 1.00          | 0.94 | 0.94 | 0.91          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| Y- A1/36      | 1.00          | 0.94 | 0.94 | 0.91          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| 74            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| A1/2          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/3          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/4          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/5          | 1.00          | 1.00 | 1.00 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/6          | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/7          | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/8          | 1.00          | 0.98 | 0.99 | 0.98          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/9          | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/10         | 1.00          | 1.00 | 1.00 | 1.00          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/11         | 1.00          | 1.00 | 1.00 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/12         | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/13         | 1.00          | 0.99 | 0.99 | 0.99          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| A1/14         | 1.00          | 0.98 | 0.99 | 0.98          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| X+ A1/18      | 1.00          | 0.94 | 0.95 | 0.91          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |
| X- A1/25      | 1.00          | 0.94 | 0.95 | 0.91          | 1.41           | 1.37 | 1.00 | 1.50         | 1.45                    | 0.60           | 0.86 | 0.89 | 0.89         |      |      |       |      |      |              |      |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 75            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.98 | 0.99 | 0.98         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.98 | 0.99 | 0.98         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+           | A1/15                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 76            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.98 | 0.99 | 0.98         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 77            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 78            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcIte<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|----------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |                | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | X+           | A1/20                   | 1.00           | 0.93 | 0.94 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | X-           | A1/27                   | 1.00           | 0.93 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | Y+           | A1/34                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | Y-           | A1/36                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 79            | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.45         | 1.40 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | X+           | A1/20                   | 1.00           | 0.93 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | X-           | A1/27                   | 1.00           | 0.93 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | Y+           | A1/34                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | Y-           | A1/36                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.45 | 1.40 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 80            | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 81            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.91           | 0.92 | 0.88 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 – fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

378 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piast<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|--------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|              | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 82           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | X+ A1/18     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | X- A1/25     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.92           | 0.92 | 0.88 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 83           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | X+ A1/18     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

379 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | X-           | A1/25                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.92 | 0.92 | 0.88         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 84            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.92 | 0.92 | 0.88         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.91 | 0.92 | 0.88         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 85            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.95           | 0.95 | 0.93 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 86            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 87            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.96           | 0.97 | 0.95 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 88            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 89            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 90            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.97 | 0.98 | 0.96         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.97 | 0.98 | 0.96         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.97 | 0.97 | 0.96         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.97 | 0.97 | 0.96         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcIte<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|----------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |                | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 91            | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | X+ A1/20     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | X- A1/27     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | Y+ A1/41     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | Y- A1/43     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 92            | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 93            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+           | A1/21                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/30                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 94            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 95            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 96            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 97            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 98            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 99            | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piast | Brinch Hansen |      |      | IclTe | Incl.PianoPosa |       |      | Comb  | Iqk   | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |      |      |
|-------|---------------|------|------|-------|----------------|-------|------|-------|-------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|------|------|
|       | Nro           | Nc   | Nq   |       | Ng             | Gc=Gq | Bc   |       |       | Bq             | Bg   | N.ro | Sism         | IcV  | IqV  | IgV   | Dc   | Dq   | Dg           | Sc   | Sq   | Sg   | Psic | Psiq |
|       |               |      |      |       |                |       |      |       |       |                |      |      |              |      |      |       |      |      |              |      |      |      |      |      |
|       |               |      |      |       |                |       |      |       | Y-    | A1/46          | 1.00 | 0.92 | 0.93         | 0.89 | 1.42 | 1.38  | 1.00 | 1.50 | 1.45         | 0.60 | 0.86 | 0.89 | 0.89 |      |
| 100   | 19.32         | 9.60 | 9.44 | 1.00  | 1.00           | 1.00  | 1.00 | A1/1  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/2  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/3  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/4  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/5  | 1.00  | 1.00           | 1.00 | 0.99 | 0.99         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/6  | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/7  | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/8  | 1.00  | 0.98           | 0.98 | 0.97 | 0.97         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/9  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/10 | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/11 | 1.00  | 1.00           | 1.00 | 0.99 | 0.99         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/12 | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/13 | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/14 | 1.00  | 0.98           | 0.98 | 0.97 | 0.97         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | X+    | A1/15 | 1.00           | 0.93 | 0.93 | 0.89         | 0.89 | 1.42 | 1.38  | 1.00 | 1.50 | 1.45         | 0.60 | 0.86 | 0.89 | 0.89 |      |
|       |               |      |      |       |                |       |      | X-    | A1/24 | 1.00           | 0.93 | 0.93 | 0.89         | 0.89 | 1.42 | 1.38  | 1.00 | 1.50 | 1.45         | 0.60 | 0.86 | 0.89 | 0.89 |      |
|       |               |      |      |       |                |       |      | Y+    | A1/40 | 1.00           | 0.92 | 0.93 | 0.89         | 0.89 | 1.42 | 1.38  | 1.00 | 1.50 | 1.45         | 0.60 | 0.86 | 0.89 | 0.89 |      |
|       |               |      |      |       |                |       |      | Y-    | A1/46 | 1.00           | 0.92 | 0.93 | 0.88         | 0.88 | 1.42 | 1.38  | 1.00 | 1.50 | 1.45         | 0.60 | 0.86 | 0.89 | 0.89 |      |
| 101   | 19.32         | 9.60 | 9.44 | 1.00  | 1.00           | 1.00  | 1.00 | A1/1  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/2  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/3  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/4  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/5  | 1.00  | 1.00           | 1.00 | 0.99 | 0.99         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/6  | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/7  | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/8  | 1.00  | 0.98           | 0.98 | 0.97 | 0.97         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/9  | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/10 | 1.00  | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/11 | 1.00  | 1.00           | 1.00 | 0.99 | 0.99         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/12 | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |
|       |               |      |      |       |                |       |      | A1/13 | 1.00  | 0.99           | 0.99 | 0.98 | 0.98         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |      |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 102           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 103           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 104           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.92           | 0.92 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 105           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 106           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 107           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.96            | 0.97            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.96            | 0.97            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.96            | 0.96            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.96            | 0.96            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 108           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.96            | 0.96            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.96            | 0.97            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 109           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 110           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 111           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 112           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piast<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|--------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|              | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|              |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 113          | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 114          | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |



Engineering & Construction



Via Napoli, 363/1 - 70132 Bari - Italy
www.bfpgroup.net - info@bfpgroup.net
tel. (+39) 0805046361 - fax (+39) 0805619384
AZIENDA CON SISTEMA GESTIONE
UNI EN ISO 9001:2015
UNI EN ISO 14001:2015
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

396 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

Table with 18 columns: Piast Nro, Brinch Hansen (Nc, Nq, Ng), lclTe (Gc=Gq), Incl.PianoPosa (Bc, Bq, Bg), Comb N.ro, lgk (Sism), CoeffIncl.Car. (lcV, lqV, lgV), Affondamento (Dc, Dq, Dg), Forma (Sc, Sq, Sg), Punzonamento (Psic, Psiq, Psig). Rows include data for various plate types (A1/5 to A1/14, X+, X-, Y+, Y-) and a summary row for '115'.

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 116           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              |                         |                |      |      |              |      |      |       |      |      |              |      |      |
| 117           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

398 di/of 501

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Igk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | X-           | A1/24       | 1.00           | 0.93 | 0.94 | 0.89         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40       | 1.00           | 0.92 | 0.93 | 0.89         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46       | 1.00           | 0.92 | 0.93 | 0.89         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 118           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/15       | 1.00           | 0.93 | 0.94 | 0.90         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24       | 1.00           | 0.93 | 0.94 | 0.90         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40       | 1.00           | 0.92 | 0.93 | 0.89         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46       | 1.00           | 0.92 | 0.93 | 0.89         | 1.42 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |

|     |       |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|-------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 119 | 19.32 | 9.60 | 9.44 | 1.00 | 1.00 | 1.00 | 1.00 | A1/1  | 1.00 | 1.00 | 1.00 | 1.00 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/2  | 1.00 | 1.00 | 1.00 | 1.00 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/3  | 1.00 | 1.00 | 1.00 | 1.00 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/4  | 1.00 | 1.00 | 1.00 | 1.00 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/5  | 1.00 | 1.00 | 1.00 | 0.99 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/6  | 1.00 | 0.99 | 0.99 | 0.98 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/7  | 1.00 | 0.99 | 0.99 | 0.98 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/8  | 1.00 | 0.98 | 0.98 | 0.97 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/9  | 1.00 | 1.00 | 1.00 | 1.00 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/10 | 1.00 | 1.00 | 1.00 | 1.00 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/11 | 1.00 | 1.00 | 1.00 | 0.99 | 1.42 | 1.37 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

399 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Igk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/12        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00        | 0.93           | 0.94 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00        | 0.93           | 0.94 | 0.90 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 120           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00        | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00        | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 121           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 122           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 123           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 124           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.92           | 0.92 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.92           | 0.92 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcIte<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|----------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |                | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
| 125           | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | X+ A1/18     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | X- A1/25     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | Y+ A1/41     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | Y- A1/43     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 126           | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | X+           | A1/18                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/25                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 127           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+           | A1/18                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/25                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 128           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.37 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

404 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/18        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/25        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 129           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 130           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 131           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 132           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
| A1/3          | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/4          | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/5          | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/6          | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/7          | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/8          | 1.00          | 0.99 | 1.00 |               |                |      |      | 1.00         | 0.99                    | 1.00           | 0.99 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/9          | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/10         | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/11         | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/12         | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 1.00 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/13         | 1.00          | 1.00 | 1.00 |               |                |      |      | 1.00         | 1.00                    | 1.00           | 0.99 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| A1/14         | 1.00          | 0.99 | 0.99 |               |                |      |      | 1.00         | 0.99                    | 0.99           | 0.99 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| X+            | A1/20         | 1.00 | 0.98 | 0.98          | 0.97           |      |      | 1.00         | 0.98                    | 0.98           | 0.97 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| X-            | A1/27         | 1.00 | 0.98 | 0.98          | 0.97           |      |      | 1.00         | 0.98                    | 0.98           | 0.97 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| Y+            | A1/34         | 1.00 | 0.98 | 0.98          | 0.97           |      |      | 1.00         | 0.98                    | 0.98           | 0.97 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| Y-            | A1/36         | 1.00 | 0.98 | 0.98          | 0.97           |      |      | 1.00         | 0.98                    | 0.98           | 0.97 | 1.37 | 1.34         | 1.00 | 1.50 | 1.45  | 0.60 | 0.85 | 0.88         | 0.88 |      |      |
| 133           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/21                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/30                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 134           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/21                   | 1.00            | 0.96            | 0.97            | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/30                   | 1.00            | 0.96            | 0.97            | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00            | 0.96            | 0.96            | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 135           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 136           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 137           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 138           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 139           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
www.bfpgroup.net - info@bfpgroup.net  
tel. (+39) 0805046361 - fax (+39) 0805619384  
AZIENDA CON SISTEMA GESTIONE  
UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

410 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IclTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Iqk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|----------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |                | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |                |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/8         | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X+   | A1/15        | 1.00        | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X-   | A1/24        | 1.00        | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y+   | A1/40        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y-   | A1/46        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 140           | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/8         | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X+   | A1/15        | 1.00        | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X-   | A1/24        | 1.00        | 0.93           | 0.94 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y+   | A1/40        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y-   | A1/46        | 1.00        | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 141           | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 142           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 143           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.98 | 0.98 | 0.97         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.98 | 0.98 | 0.97         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.92 | 0.93 | 0.89         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.92 | 0.93 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.92 | 0.92 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.92 | 0.92 | 0.88         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 144           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.98 | 0.98 | 0.97         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
tel. (+39) 0805046361 – fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

413 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98            | 0.98            | 0.97            | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.92            | 0.93            | 0.88            | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.92            | 0.93            | 0.88            | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.91            | 0.92            | 0.87            | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.91            | 0.92            | 0.87            | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 145           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/18     | 1.00                    | 0.96            | 0.97            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/25     | 1.00                    | 0.96            | 0.97            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/41     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/43     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 146           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96            | 0.96            | 0.94            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96            | 0.96            | 0.93            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.95            | 0.96            | 0.93            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.95            | 0.96            | 0.93            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 147           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98            | 0.99            | 0.98            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.94            | 0.95            | 0.91            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.94            | 0.95            | 0.91            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.94            | 0.94            | 0.91            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.94            | 0.94            | 0.91            | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 148           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |    |    | IcTe<br>Gc=Gq | Incl.PianoPosa |    |    | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|----|----|---------------|----------------|----|----|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq | Ng |               | Bc             | Bq | Bg |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |    |    |               |                |    |    | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | X+ A1/20     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | X- A1/27     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | Y+ A1/41     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | Y- A1/43     | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

|     |       |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|-------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 149 | 19.32 | 9.60 | 9.44 | 1.00 | 1.00 | 1.00 | 1.00 | A1/1     | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/2     | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/3     | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/4     | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/5     | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/6     | 1.00 | 1.00 | 1.00 | 0.99 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/7     | 1.00 | 1.00 | 1.00 | 0.99 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/8     | 1.00 | 0.99 | 0.99 | 0.99 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/9     | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/10    | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/11    | 1.00 | 1.00 | 1.00 | 1.00 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/12    | 1.00 | 1.00 | 1.00 | 0.99 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/13    | 1.00 | 1.00 | 1.00 | 0.99 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | A1/14    | 1.00 | 0.99 | 0.99 | 0.99 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | X+ A1/20 | 1.00 | 0.98 | 0.98 | 0.97 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | X- A1/27 | 1.00 | 0.98 | 0.98 | 0.97 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | Y+ A1/34 | 1.00 | 0.98 | 0.98 | 0.97 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |
|     |       |      |      |      |      |      |      | Y- A1/36 | 1.00 | 0.98 | 0.98 | 0.97 | 1.37 | 1.33 | 1.00 | 1.50 | 1.45 | 0.60 | 0.85 | 0.88 | 0.88 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

416 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piast<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Igk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|--------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|              | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 150          | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00        | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00        | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/12        | 1.00        | 0.99           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/13        | 1.00        | 0.99           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/14        | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | X+ A1/15     | 1.00        | 0.97           | 0.97 | 0.96 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | X- A1/24     | 1.00        | 0.97           | 0.97 | 0.96 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | Y+ A1/40     | 1.00        | 0.97           | 0.97 | 0.95 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | Y- A1/46     | 1.00        | 0.97           | 0.97 | 0.95 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 151          | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00        | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/12        | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/13        | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | A1/14        | 1.00        | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|              |               |      |      |               |                |      |      | X+ A1/15     | 1.00        | 0.95           | 0.95 | 0.93 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Igk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | X-           | A1/24       | 1.00           | 0.95 | 0.96 | 0.93         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/40       | 1.00           | 0.95 | 0.95 | 0.92         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/46       | 1.00           | 0.95 | 0.95 | 0.92         | 1.37 | 1.33 | 1.00  | 1.50 | 1.45 | 0.60         | 0.85 | 0.88 | 0.88 |
| 152           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00        | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00        | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/15       | 1.00           | 0.93 | 0.94 | 0.90         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24       | 1.00           | 0.93 | 0.94 | 0.90         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40       | 1.00           | 0.93 | 0.94 | 0.89         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46       | 1.00           | 0.93 | 0.93 | 0.89         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 153           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00        | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00        | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00        | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 154           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 155           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.37         | 1.33 | 1.00 | 1.50  | 1.45 | 0.60 | 0.85         | 0.88 | 0.88 |
| 156           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.93           | 0.94 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 157           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I – 70132 Bari – Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) – [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 – fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

420 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 158           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piast<br>Nro | Brinch Hansen |      |      | IcIte<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|--------------|---------------|------|------|----------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|              | Nc            | Nq   | Ng   |                | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
| 159          | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | X+ A1/15     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | X- A1/24     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | Y+ A1/40     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | Y- A1/46     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 160          | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|              |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | Igk<br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |             | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |      |
|               |               |      |      |               |                |      |      | X+           | A1/15       | 1.00           | 0.93 | 0.94 | 0.90         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24       | 1.00           | 0.93 | 0.94 | 0.90         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40       | 1.00           | 0.93 | 0.93 | 0.89         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46       | 1.00           | 0.93 | 0.93 | 0.89         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 161           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5        | 1.00           | 1.00 | 1.00 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6        | 1.00           | 0.99 | 0.99 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7        | 1.00           | 0.99 | 0.99 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8        | 1.00           | 0.98 | 0.99 | 0.98         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10       | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11       | 1.00           | 1.00 | 1.00 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12       | 1.00           | 0.99 | 0.99 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/13       | 1.00           | 0.99 | 0.99 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/14       | 1.00           | 0.98 | 0.98 | 0.97         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+           | A1/15       | 1.00           | 0.94 | 0.95 | 0.91         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24       | 1.00           | 0.94 | 0.95 | 0.91         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/31       | 1.00           | 0.94 | 0.94 | 0.91         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/37       | 1.00           | 0.94 | 0.94 | 0.91         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 162           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6        | 1.00           | 0.99 | 0.99 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7        | 1.00           | 0.99 | 0.99 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8        | 1.00           | 0.99 | 0.99 | 0.98         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9        | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10       | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 163           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 164           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 165           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 166           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.96           | 0.97 | 0.95 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.96           | 0.97 | 0.95 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.96           | 0.97 | 0.94 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 167           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y-           | A1/37                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 168           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |      |
|               |               |      |      |               |                |      |      | X+           | A1/15                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/24                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/31                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/37                   | 1.00           | 0.94 | 0.94 | 0.91         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 169           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piast<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|--------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|              | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|              |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.95           | 0.95 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.95           | 0.95 | 0.93 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 170          | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.96           | 0.97 | 0.95 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.96           | 0.97 | 0.95 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 171          | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



Engineering & Construction



GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

428 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 172           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 173           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 174           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.94           | 0.95 | 0.91 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.94           | 0.95 | 0.91 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.94           | 0.94 | 0.91 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 175           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 176           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.96           | 0.97 | 0.95 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.96           | 0.97 | 0.95 | 1.39         | 1.35 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

**GRE.EEC.R.25.IT.W.15001.00.103.00**

PAGE

431 di/of 501

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 177           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+           | A1/15                   | 1.00           | 0.95 | 0.95 | 0.93         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/24                   | 1.00           | 0.95 | 0.95 | 0.93         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.39 | 1.35 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 178           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.98 | 0.98 | 0.97         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.44 | 1.39 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.93           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.44         | 1.39 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 179           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/21        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/30        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/40        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/46        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 180           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |



COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/21                   | 1.00           | 0.96 | 0.97 | 0.95         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/30                   | 1.00           | 0.96 | 0.97 | 0.95         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 181           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.41         | 1.37 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/15                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/24                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/40                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/46                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.41 | 1.37 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 182           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |    |    | IcTe<br>Gc=Gq | Incl.PianoPosa |    |    | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|----|----|---------------|----------------|----|----|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq | Ng |               | Bc             | Bq | Bg |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |    |    |               |                |    |    | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    |    | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    | X+ | A1/21        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    | X- | A1/30        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    | Y+ | A1/31        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |    |    |               |                |    | Y- | A1/37        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

|     |       |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|-------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 183 | 19.32 | 9.60 | 9.44 | 1.00 | 1.00 | 1.00 | 1.00 | A1/1  | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/2  | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/3  | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/4  | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/5  | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/6  | 1.00 | 0.99 | 0.99 | 0.99 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/7  | 1.00 | 0.99 | 0.99 | 0.99 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/8  | 1.00 | 0.99 | 0.99 | 0.98 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/9  | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/10 | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/11 | 1.00 | 1.00 | 1.00 | 1.00 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/12 | 1.00 | 0.99 | 0.99 | 0.99 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/13 | 1.00 | 0.99 | 0.99 | 0.99 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      |      | A1/14 | 1.00 | 0.99 | 0.99 | 0.98 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      | X+   | A1/21 | 1.00 | 0.96 | 0.96 | 0.94 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      | X-   | A1/30 | 1.00 | 0.96 | 0.96 | 0.93 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      | Y+   | A1/40 | 1.00 | 0.95 | 0.96 | 0.93 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |
|     |       |      |      |      |      |      | Y-   | A1/46 | 1.00 | 0.95 | 0.96 | 0.93 | 1.43 | 1.38 | 1.00 | 1.50 | 1.45 | 0.60 | 0.86 | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
| 184           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 185           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.95 | 0.95 | 0.92         | 1.43 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
| 186           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | X+           | A1/20                   | 1.00           | 0.94 | 0.95 | 0.92         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X-           | A1/27                   | 1.00           | 0.94 | 0.95 | 0.92         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+           | A1/41                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y-           | A1/43                   | 1.00           | 0.94 | 0.95 | 0.91         | 1.46 | 1.41 | 1.00  | 1.50 | 1.45 | 0.60         | 0.87 | 0.89 | 0.89 |
| 187           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |      |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 188           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.95           | 0.95 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.95           | 0.95 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 189           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |



Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
[www.bfpgroup.net](http://www.bfpgroup.net) - [info@bfpgroup.net](mailto:info@bfpgroup.net)  
 tel. (+39) 0805046361 - fax (+39) 0805619384  
**AZIENDA CON SISTEMA GESTIONE**  
**UNI EN ISO 9001:2015**  
**UNI EN ISO 14001:2015**  
**OHSAS 18001:2007**

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

438 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/41        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/43        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 190           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 191           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.95            | 0.96            | 0.93            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.95            | 0.96            | 0.93            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.95            | 0.95            | 0.92            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.95            | 0.95            | 0.92            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 192           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.99            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96            | 0.96            | 0.94            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96            | 0.96            | 0.94            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.95            | 0.96            | 0.93            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.95            | 0.96            | 0.93            | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
| 193           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.96           | 0.96 | 0.94 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.96           | 0.96 | 0.93 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.95           | 0.96 | 0.93 | 1.43         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 194           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |





Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy
www.bfpgroup.net - info@bfpgroup.net
tel. (+39) 0805046361 - fax (+39) 0805619384
AZIENDA CON SISTEMA GESTIONE
UNI EN ISO 9001:2015
UNI EN ISO 14001:2015
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

441 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

Table with columns: Piast Nro, Brinch Hansen (Nc, Nq, Ng), IclTe (Gc=Gq), Incl.PianoPosa (Bc, Bq, Bg), Comb (N.ro), Iqk (Sism), CoeffIncl.Car. (IcV, IqV, IgV), Affondamento (Dc, Dq, Dg), Forma (Sc, Sq, Sg), Punzonamento (Psic, Psig, Psig). Rows include values for plates 195 and 196 across various combinations.

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IclTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|----------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |                | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X+   | A1/20        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X-   | A1/27        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y+   | A1/34        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y-   | A1/36        | 1.00                    | 0.95           | 0.96 | 0.93 | 1.46         | 1.41 | 1.00 | 1.50  | 1.45 | 0.60 | 0.87         | 0.89 | 0.89 |
| 197           | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/5         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/11        | 1.00                    | 0.99           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y+   | A1/31        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      | Y-   | A1/37        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 198           | 19.32         | 9.60 | 9.44 | 1.00           | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |                |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 199           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.91           | 0.92 | 0.87 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 200           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.92           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.92           | 0.93 | 0.88 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 201           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.94           | 0.94 | 0.91 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.93           | 0.94 | 0.90 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |



**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car.  |                 |                 | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|-----------------|-----------------|-----------------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | I <sub>cV</sub> | I <sub>qV</sub> | I <sub>gV</sub> | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.96            | 0.96            | 0.94            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 204           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 0.99            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98            | 0.98            | 0.97            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00            | 1.00            | 1.00            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00            | 1.00            | 0.99            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99            | 0.99            | 0.98            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98            | 0.98            | 0.97            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/15     | 1.00                    | 0.93            | 0.94            | 0.90            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/24     | 1.00                    | 0.93            | 0.94            | 0.90            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/31     | 1.00                    | 0.93            | 0.93            | 0.89            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/37     | 1.00                    | 0.93            | 0.93            | 0.89            | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 205           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00            | 1.00            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99            | 0.99            | 0.99            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99            | 0.99            | 0.98            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00            | 1.00            | 1.00            | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.95           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 206           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/15        | 1.00                    | 0.97           | 0.97 | 0.95 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/24        | 1.00                    | 0.97           | 0.97 | 0.95 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/31        | 1.00                    | 0.97           | 0.97 | 0.95 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/37        | 1.00                    | 0.97           | 0.97 | 0.95 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 207           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+ A1/21     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X- A1/30     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+ A1/40     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y- A1/46     | 1.00                    | 0.98           | 0.98 | 0.97 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 208           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.93           | 0.94 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 209           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |





Engineering & Construction



Via Napoli, 363/I - 70132 Bari - Italy  
www.bfpgroup.net - info@bfpgroup.net  
tel. (+39) 0805046361 - fax (+39) 0805619384  
AZIENDA CON SISTEMA GESTIONE  
UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015  
OHSAS 18001:2007

GRE CODE

GRE.EEC.R.25.IT.W.15001.00.103.00

PAGE

449 di/of 501

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.94           | 0.95 | 0.92 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y+   | A1/34        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | Y-   | A1/36        | 1.00                    | 0.94           | 0.95 | 0.91 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
| 210           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.99 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X+   | A1/20        | 1.00                    | 0.96           | 0.96 | 0.94 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |
|               |               |      |      |               |                |      | X-   | A1/27        | 1.00                    | 0.96           | 0.96 | 0.93 | 1.38         | 1.34 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.88 | 0.88 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psig | Psig |      |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.95 | 0.96 | 0.93         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 211           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/13                   | 1.00           | 0.99 | 0.99 | 0.99         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      |              | A1/14                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X+           | A1/18                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | X-           | A1/25                   | 1.00           | 0.96 | 0.97 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y+           | A1/34                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
|               |               |      |      |               |                |      |      | Y-           | A1/36                   | 1.00           | 0.96 | 0.96 | 0.94         | 1.38 | 1.34 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.88 | 0.88 |
| 212           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 |              | A1/1                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/2                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/3                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/4                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/5                    | 1.00           | 1.00 | 1.00 | 0.99         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/6                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/7                    | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/8                    | 1.00           | 0.98 | 0.98 | 0.97         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/9                    | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/10                   | 1.00           | 1.00 | 1.00 | 1.00         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/11                   | 1.00           | 1.00 | 1.00 | 0.99         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      |              | A1/12                   | 1.00           | 0.99 | 0.99 | 0.98         | 1.42 | 1.38 | 1.00  | 1.50 | 1.45 | 0.60         | 0.86 | 0.89 | 0.89 |

**COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.**

| Piastr<br>Nro | Brinch Hansen |      |      | IcTe<br>Gc=Gq | Incl.PianoPosa |      |      | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|---------------|---------------|------|------|---------------|----------------|------|------|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|               | Nc            | Nq   | Ng   |               | Bc             | Bq   | Bg   |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.93           | 0.94 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 213           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X+ A1/20     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | X- A1/27     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y+ A1/34     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | Y- A1/36     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
| 214           | 19.32         | 9.60 | 9.44 | 1.00          | 1.00           | 1.00 | 1.00 | A1/1         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/2         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/3         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/4         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/5         | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/6         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/7         | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|               |               |      |      |               |                |      |      | A1/8         | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

COEFFICIENTI DI PORTANZA PIASTRE WINKLER - CONDIZIONI DRENATE - S.L.U.

| Piast<br>Nro | Brinch Hansen |    |    | IcTe<br>Gc=Gq | Incl.PianoPosa |    |    | Comb<br>N.ro | I <sub>gk</sub><br>Sism | CoeffIncl.Car. |      |      | Affondamento |      |      | Forma |      |      | Punzonamento |      |      |
|--------------|---------------|----|----|---------------|----------------|----|----|--------------|-------------------------|----------------|------|------|--------------|------|------|-------|------|------|--------------|------|------|
|              | Nc            | Nq | Ng |               | Bc             | Bq | Bg |              |                         | IcV            | IqV  | IgV  | Dc           | Dq   | Dg   | Sc    | Sq   | Sg   | Psic         | Psiq | Psig |
|              |               |    |    |               |                |    |    | A1/9         | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | A1/10        | 1.00                    | 1.00           | 1.00 | 1.00 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | A1/11        | 1.00                    | 1.00           | 1.00 | 0.99 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | A1/12        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | A1/13        | 1.00                    | 0.99           | 0.99 | 0.98 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | A1/14        | 1.00                    | 0.98           | 0.98 | 0.97 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | X+ A1/20     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | X- A1/27     | 1.00                    | 0.93           | 0.94 | 0.90 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | Y+ A1/34     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |
|              |               |    |    |               |                |    |    | Y- A1/36     | 1.00                    | 0.93           | 0.93 | 0.89 | 1.42         | 1.38 | 1.00 | 1.50  | 1.45 | 0.60 | 0.86         | 0.89 | 0.89 |

VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE

| IDENTIFICATIVO       |               |              | RISULTATI |                   |                 |            |             |           |                    |                |              |                     |
|----------------------|---------------|--------------|-----------|-------------------|-----------------|------------|-------------|-----------|--------------------|----------------|--------------|---------------------|
| Combinazione<br>N.ro | Tipo<br>Elem. | Elem<br>N.ro | N<br>(t)  | Tg(fi)/<br>Gfi/Gr | C/Gc/Gr<br>t/mq | Area<br>mq | Vres<br>(t) | Fh<br>(t) | Verifica<br>Locale | S(Vres)<br>(t) | S(Fh)<br>(t) | Verifica<br>Globale |
| A1 / 34              | PIASTRA       | 1            | 1.40      | 0.244             | 90.91           | 0.289      | 26.59       | 0.25      | OK                 | 26.59          | 0.25         |                     |
|                      | PIASTRA       | 2            | 3.17      | 0.244             | 90.91           | 0.577      | 53.27       | 0.57      | OK                 | 79.86          | 0.82         |                     |
|                      | PIASTRA       | 3            | 1.53      | 0.244             | 90.91           | 0.459      | 42.13       | 0.27      | OK                 | 121.99         | 1.09         |                     |
|                      | PIASTRA       | 4            | 2.14      | 0.244             | 90.91           | 0.919      | 84.04       | 0.38      | OK                 | 206.04         | 1.48         |                     |
|                      | PIASTRA       | 5            | 1.40      | 0.244             | 90.91           | 0.289      | 26.59       | 0.25      | OK                 | 232.63         | 1.73         |                     |
|                      | PIASTRA       | 6            | 1.52      | 0.244             | 90.91           | 0.459      | 42.13       | 0.27      | OK                 | 274.76         | 2.00         |                     |
|                      | PIASTRA       | 7            | 0.76      | 0.244             | 90.91           | 0.341      | 31.21       | 0.14      | OK                 | 305.97         | 2.14         |                     |
|                      | PIASTRA       | 8            | 0.43      | 0.244             | 90.91           | 0.171      | 15.62       | 0.08      | OK                 | 321.58         | 2.22         |                     |
|                      | PIASTRA       | 9            | 0.43      | 0.244             | 90.91           | 0.171      | 15.62       | 0.08      | OK                 | 337.20         | 2.29         |                     |
|                      | PIASTRA       | 11           | 2.04      | 0.244             | 90.91           | 0.420      | 38.70       | 0.37      | OK                 | 375.90         | 2.66         |                     |
|                      | PIASTRA       | 12           | 2.33      | 0.244             | 90.91           | 0.480      | 44.23       | 0.42      | OK                 | 420.13         | 3.08         |                     |
|                      | PIASTRA       | 13           | 2.28      | 0.244             | 90.91           | 0.685      | 62.86       | 0.41      | OK                 | 482.99         | 3.49         |                     |
|                      | PIASTRA       | 14           | 1.94      | 0.244             | 90.91           | 0.785      | 71.85       | 0.35      | OK                 | 554.84         | 3.84         |                     |
|                      | PIASTRA       | 15           | 0.92      | 0.244             | 90.91           | 0.420      | 38.41       | 0.16      | OK                 | 593.24         | 4.00         |                     |
|                      | PIASTRA       | 16           | 1.95      | 0.244             | 90.91           | 0.779      | 71.30       | 0.35      | OK                 | 664.54         | 4.35         |                     |

VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE

| IDENTIFICATIVO |       |      | RISULTATI |         |         |        |      |     |          |         |       |          |
|----------------|-------|------|-----------|---------|---------|--------|------|-----|----------|---------|-------|----------|
| Combinazione   | Tipo  | Elem | N         | Tg(fi)/ | C/Gc/Gr | Area   | Vres | Fh  | Verifica | S(Vres) | S(Fh) | Verifica |
| N.ro           | Elem. | N.ro | (t)       | Gfi/Gr  | t/mq    | mq     | (t)  | (t) | Locale   | (t)     | (t)   | Globale  |
| PIASTRA        | 17    | 2.59 | 0.244     | 90.91   | 0.783   | 71.84  | 0.47 | OK  | 736.38   | 4.82    |       |          |
| PIASTRA        | 18    | 1.64 | 0.244     | 90.91   | 0.351   | 32.28  | 0.29 | OK  | 768.66   | 5.11    |       |          |
| PIASTRA        | 19    | 3.18 | 0.244     | 90.91   | 0.693   | 63.81  | 0.57 | OK  | 832.47   | 5.68    |       |          |
| PIASTRA        | 20    | 1.28 | 0.244     | 90.91   | 0.351   | 32.19  | 0.23 | OK  | 864.67   | 5.91    |       |          |
| PIASTRA        | 21    | 2.65 | 0.244     | 90.91   | 0.680   | 62.51  | 0.48 | OK  | 927.17   | 6.39    |       |          |
| PIASTRA        | 22    | 3.21 | 0.244     | 90.91   | 0.711   | 65.44  | 0.58 | OK  | 992.61   | 6.97    |       |          |
| PIASTRA        | 23    | 3.45 | 0.244     | 90.91   | 0.763   | 70.19  | 0.62 | OK  | 1062.81  | 7.59    |       |          |
| PIASTRA        | 24    | 3.79 | 0.244     | 90.91   | 0.815   | 74.97  | 0.68 | OK  | 1137.78  | 8.27    |       |          |
| PIASTRA        | 25    | 2.44 | 0.244     | 90.91   | 1.365   | 124.65 | 0.44 | OK  | 1262.43  | 8.71    |       |          |
| PIASTRA        | 26    | 2.33 | 0.244     | 90.91   | 1.334   | 121.83 | 0.42 | OK  | 1384.26  | 9.13    |       |          |
| PIASTRA        | 27    | 2.69 | 0.244     | 90.91   | 1.349   | 123.25 | 0.48 | OK  | 1507.51  | 9.61    |       |          |
| PIASTRA        | 28    | 3.56 | 0.244     | 90.91   | 1.363   | 124.81 | 0.64 | OK  | 1632.32  | 10.25   |       |          |
| PIASTRA        | 29    | 1.05 | 0.244     | 90.91   | 1.348   | 122.80 | 0.19 | OK  | 1755.12  | 10.44   |       |          |
| PIASTRA        | 30    | 1.13 | 0.244     | 90.91   | 1.267   | 115.49 | 0.20 | OK  | 1870.62  | 10.64   |       |          |
| PIASTRA        | 31    | 1.52 | 0.244     | 90.91   | 1.216   | 110.89 | 0.27 | OK  | 1981.50  | 10.91   |       |          |
| PIASTRA        | 32    | 2.21 | 0.244     | 90.91   | 1.164   | 106.36 | 0.40 | OK  | 2087.86  | 11.31   |       |          |
| PIASTRA        | 33    | 2.34 | 0.244     | 90.91   | 1.357   | 123.96 | 0.42 | OK  | 2211.82  | 11.73   |       |          |
| PIASTRA        | 34    | 2.29 | 0.244     | 90.91   | 1.304   | 119.13 | 0.41 | OK  | 2330.95  | 12.14   |       |          |
| PIASTRA        | 35    | 2.39 | 0.244     | 90.91   | 1.290   | 117.81 | 0.43 | OK  | 2448.76  | 12.57   |       |          |
| PIASTRA        | 36    | 2.57 | 0.244     | 90.91   | 1.275   | 116.51 | 0.46 | OK  | 2565.28  | 13.04   |       |          |
| PIASTRA        | 37    | 2.56 | 0.244     | 90.91   | 0.660   | 60.58  | 0.46 | OK  | 2625.86  | 13.49   |       |          |
| PIASTRA        | 38    | 2.55 | 0.244     | 90.91   | 0.660   | 60.58  | 0.46 | OK  | 2686.44  | 13.95   |       |          |
| PIASTRA        | 39    | 2.61 | 0.244     | 90.91   | 0.660   | 60.59  | 0.47 | OK  | 2747.03  | 14.42   |       |          |
| PIASTRA        | 40    | 2.26 | 0.244     | 90.91   | 1.054   | 96.34  | 0.41 | OK  | 2843.37  | 14.83   |       |          |
| PIASTRA        | 41    | 2.20 | 0.244     | 90.91   | 0.540   | 49.61  | 0.39 | OK  | 2892.97  | 15.22   |       |          |
| PIASTRA        | 42    | 1.00 | 0.244     | 90.91   | 0.420   | 38.42  | 0.18 | OK  | 2931.40  | 15.40   |       |          |
| PIASTRA        | 43    | 0.95 | 0.244     | 90.91   | 0.420   | 38.41  | 0.17 | OK  | 2969.81  | 15.57   |       |          |
| PIASTRA        | 44    | 0.93 | 0.244     | 90.91   | 0.420   | 38.41  | 0.17 | OK  | 3008.22  | 15.74   |       |          |
| PIASTRA        | 45    | 0.82 | 0.244     | 90.91   | 0.403   | 36.82  | 0.15 | OK  | 3045.04  | 15.89   |       |          |
| PIASTRA        | 46    | 1.59 | 0.244     | 90.91   | 0.810   | 74.07  | 0.29 | OK  | 3119.10  | 16.17   |       |          |
| PIASTRA        | 47    | 1.53 | 0.244     | 90.91   | 0.820   | 74.95  | 0.28 | OK  | 3194.05  | 16.45   |       |          |
| PIASTRA        | 48    | 1.52 | 0.244     | 90.91   | 0.830   | 75.84  | 0.27 | OK  | 3269.89  | 16.72   |       |          |
| PIASTRA        | 49    | 1.53 | 0.244     | 90.91   | 0.838   | 76.51  | 0.28 | OK  | 3346.40  | 17.00   |       |          |

VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE

| IDENTIFICATIVO |       |      | RISULTATI |         |         |       |      |     |          |         |       |          |
|----------------|-------|------|-----------|---------|---------|-------|------|-----|----------|---------|-------|----------|
| Combinazione   | Tipo  | Elem | N         | Tg(fi)/ | C/Gc/Gr | Area  | Vres | Fh  | Verifica | S(Vres) | S(Fh) | Verifica |
| N.ro           | Elem. | N.ro | (t)       | Gfi/Gr  | t/mq    | mq    | (t)  | (t) | Locale   | (t)     | (t)   | Globale  |
| PIASTRA        | 50    | 1.74 | 0.244     | 90.91   | 0.840   | 76.79 | 0.31 | OK  | 3423.19  | 17.31   |       |          |
| PIASTRA        | 51    | 1.69 | 0.244     | 90.91   | 0.840   | 76.77 | 0.30 | OK  | 3499.97  | 17.61   |       |          |
| PIASTRA        | 52    | 1.71 | 0.244     | 90.91   | 0.840   | 76.78 | 0.31 | OK  | 3576.75  | 17.92   |       |          |
| PIASTRA        | 53    | 1.74 | 0.244     | 90.91   | 0.840   | 76.79 | 0.31 | OK  | 3653.53  | 18.23   |       |          |
| PIASTRA        | 54    | 1.42 | 0.244     | 90.91   | 0.437   | 40.09 | 0.25 | OK  | 3693.63  | 18.49   |       |          |
| PIASTRA        | 55    | 2.68 | 0.244     | 90.91   | 0.870   | 79.70 | 0.48 | OK  | 3773.33  | 18.97   |       |          |
| PIASTRA        | 56    | 2.60 | 0.244     | 90.91   | 0.860   | 78.79 | 0.47 | OK  | 3852.11  | 19.44   |       |          |
| PIASTRA        | 57    | 2.62 | 0.244     | 90.91   | 0.850   | 77.90 | 0.47 | OK  | 3930.01  | 19.91   |       |          |
| PIASTRA        | 58    | 2.68 | 0.244     | 90.91   | 0.842   | 77.24 | 0.48 | OK  | 4007.25  | 20.39   |       |          |
| PIASTRA        | 59    | 1.67 | 0.244     | 90.91   | 0.420   | 38.59 | 0.30 | OK  | 4045.84  | 20.69   |       |          |
| PIASTRA        | 60    | 1.65 | 0.244     | 90.91   | 0.420   | 38.58 | 0.30 | OK  | 4084.42  | 20.99   |       |          |
| PIASTRA        | 61    | 1.69 | 0.244     | 90.91   | 0.420   | 38.59 | 0.30 | OK  | 4123.02  | 21.29   |       |          |
| PIASTRA        | 62    | 1.76 | 0.244     | 90.91   | 0.420   | 38.61 | 0.32 | OK  | 4161.63  | 21.61   |       |          |
| PIASTRA        | 63    | 0.92 | 0.244     | 90.91   | 0.420   | 38.41 | 0.17 | OK  | 4200.04  | 21.77   |       |          |
| PIASTRA        | 64    | 0.95 | 0.244     | 90.91   | 0.420   | 38.41 | 0.17 | OK  | 4238.45  | 21.94   |       |          |
| PIASTRA        | 65    | 0.99 | 0.244     | 90.91   | 0.420   | 38.42 | 0.18 | OK  | 4276.87  | 22.12   |       |          |
| PIASTRA        | 66    | 1.54 | 0.244     | 90.91   | 0.840   | 76.74 | 0.28 | OK  | 4353.61  | 22.40   |       |          |
| PIASTRA        | 67    | 1.57 | 0.244     | 90.91   | 0.840   | 76.75 | 0.28 | OK  | 4430.35  | 22.68   |       |          |
| PIASTRA        | 68    | 1.64 | 0.244     | 90.91   | 0.840   | 76.76 | 0.30 | OK  | 4507.12  | 22.97   |       |          |
| PIASTRA        | 69    | 1.60 | 0.244     | 90.91   | 0.812   | 74.22 | 0.29 | OK  | 4581.34  | 23.26   |       |          |
| PIASTRA        | 70    | 1.73 | 0.244     | 90.91   | 0.840   | 76.78 | 0.31 | OK  | 4658.12  | 23.57   |       |          |
| PIASTRA        | 71    | 1.72 | 0.244     | 90.91   | 0.840   | 76.78 | 0.31 | OK  | 4734.90  | 23.88   |       |          |
| PIASTRA        | 72    | 1.77 | 0.244     | 90.91   | 0.840   | 76.80 | 0.32 | OK  | 4811.70  | 24.20   |       |          |
| PIASTRA        | 73    | 1.75 | 0.244     | 90.91   | 0.812   | 74.25 | 0.31 | OK  | 4885.95  | 24.51   |       |          |
| PIASTRA        | 74    | 2.60 | 0.244     | 90.91   | 0.840   | 77.00 | 0.47 | OK  | 4962.95  | 24.98   |       |          |
| PIASTRA        | 75    | 2.55 | 0.244     | 90.91   | 0.840   | 76.98 | 0.46 | OK  | 5039.93  | 25.44   |       |          |
| PIASTRA        | 76    | 2.59 | 0.244     | 90.91   | 0.840   | 77.00 | 0.47 | OK  | 5116.93  | 25.90   |       |          |
| PIASTRA        | 77    | 2.64 | 0.244     | 90.91   | 0.812   | 74.47 | 0.47 | OK  | 5191.40  | 26.38   |       |          |
| PIASTRA        | 78    | 1.70 | 0.244     | 90.91   | 0.420   | 38.59 | 0.30 | OK  | 5229.99  | 26.68   |       |          |
| PIASTRA        | 79    | 1.65 | 0.244     | 90.91   | 0.420   | 38.58 | 0.30 | OK  | 5268.58  | 26.98   |       |          |
| PIASTRA        | 80    | 1.68 | 0.244     | 90.91   | 0.420   | 38.59 | 0.30 | OK  | 5307.17  | 27.28   |       |          |
| PIASTRA        | 81    | 1.36 | 0.244     | 90.91   | 0.330   | 30.33 | 0.25 | OK  | 5337.50  | 27.53   |       |          |
| PIASTRA        | 82    | 4.27 | 0.244     | 90.91   | 0.931   | 85.67 | 0.77 | OK  | 5423.17  | 28.29   |       |          |

VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE

| IDENTIFICATIVO |       |      | RISULTATI |         |         |        |      |     |          |         |       |          |
|----------------|-------|------|-----------|---------|---------|--------|------|-----|----------|---------|-------|----------|
| Combinazione   | Tipo  | Elem | N         | Tg(fi)/ | C/Gc/Gr | Area   | Vres | Fh  | Verifica | S(Vres) | S(Fh) | Verifica |
| N.ro           | Elem. | N.ro | (t)       | Gfi/Gr  | t/mq    | mq     | (t)  | (t) | Locale   | (t)     | (t)   | Globale  |
| PIASTRA        | 83    | 3.87 | 0.244     | 90.91   | 0.872   | 80.20  | 0.70 | OK  | 5503.38  | 28.99   |       |          |
| PIASTRA        | 84    | 3.61 | 0.244     | 90.91   | 0.813   | 74.77  | 0.65 | OK  | 5578.15  | 29.64   |       |          |
| PIASTRA        | 85    | 3.56 | 0.244     | 90.91   | 0.789   | 72.64  | 0.64 | OK  | 5650.79  | 30.28   |       |          |
| PIASTRA        | 86    | 3.89 | 0.244     | 90.91   | 1.558   | 142.60 | 0.70 | OK  | 5793.38  | 30.98   |       |          |
| PIASTRA        | 87    | 2.90 | 0.244     | 90.91   | 1.541   | 140.82 | 0.52 | OK  | 5934.20  | 31.50   |       |          |
| PIASTRA        | 88    | 2.63 | 0.244     | 90.91   | 1.524   | 139.22 | 0.47 | OK  | 6073.42  | 31.97   |       |          |
| PIASTRA        | 89    | 2.82 | 0.244     | 90.91   | 1.554   | 141.92 | 0.51 | OK  | 6215.34  | 32.47   |       |          |
| PIASTRA        | 90    | 2.27 | 0.244     | 90.91   | 1.266   | 115.61 | 0.41 | OK  | 6330.95  | 32.88   |       |          |
| PIASTRA        | 91    | 1.63 | 0.244     | 90.91   | 1.406   | 128.24 | 0.29 | OK  | 6459.19  | 33.18   |       |          |
| PIASTRA        | 92    | 1.30 | 0.244     | 90.91   | 1.457   | 132.76 | 0.23 | OK  | 6591.95  | 33.41   |       |          |
| PIASTRA        | 93    | 1.29 | 0.244     | 90.91   | 1.537   | 140.02 | 0.23 | OK  | 6731.97  | 33.64   |       |          |
| PIASTRA        | 94    | 2.85 | 0.244     | 90.91   | 1.397   | 127.68 | 0.51 | OK  | 6859.65  | 34.15   |       |          |
| PIASTRA        | 95    | 2.72 | 0.244     | 90.91   | 1.474   | 134.64 | 0.49 | OK  | 6994.29  | 34.64   |       |          |
| PIASTRA        | 96    | 2.64 | 0.244     | 90.91   | 1.491   | 136.16 | 0.48 | OK  | 7130.45  | 35.12   |       |          |
| PIASTRA        | 97    | 2.73 | 0.244     | 90.91   | 1.545   | 141.13 | 0.49 | OK  | 7271.58  | 35.61   |       |          |
| PIASTRA        | 98    | 3.01 | 0.244     | 90.91   | 0.758   | 69.68  | 0.54 | OK  | 7341.26  | 36.15   |       |          |
| PIASTRA        | 99    | 2.86 | 0.244     | 90.91   | 0.737   | 67.69  | 0.51 | OK  | 7408.95  | 36.67   |       |          |
| PIASTRA        | 100   | 2.92 | 0.244     | 90.91   | 0.745   | 68.47  | 0.52 | OK  | 7477.42  | 37.19   |       |          |
| PIASTRA        | 101   | 3.10 | 0.244     | 90.91   | 0.773   | 70.99  | 0.56 | OK  | 7548.41  | 37.75   |       |          |
| PIASTRA        | 102   | 3.46 | 0.244     | 90.91   | 0.796   | 73.17  | 0.62 | OK  | 7621.58  | 38.37   |       |          |
| PIASTRA        | 103   | 3.39 | 0.244     | 90.91   | 0.796   | 73.16  | 0.61 | OK  | 7694.73  | 38.98   |       |          |
| PIASTRA        | 104   | 3.43 | 0.244     | 90.91   | 0.796   | 73.17  | 0.62 | OK  | 7767.90  | 39.59   |       |          |
| PIASTRA        | 105   | 3.38 | 0.244     | 90.91   | 0.764   | 70.30  | 0.61 | OK  | 7838.20  | 40.20   |       |          |
| PIASTRA        | 106   | 2.85 | 0.244     | 90.91   | 1.591   | 145.35 | 0.51 | OK  | 7983.55  | 40.71   |       |          |
| PIASTRA        | 107   | 2.83 | 0.244     | 90.91   | 1.591   | 145.35 | 0.51 | OK  | 8128.90  | 41.22   |       |          |
| PIASTRA        | 108   | 2.87 | 0.244     | 90.91   | 1.591   | 145.36 | 0.52 | OK  | 8274.26  | 41.74   |       |          |
| PIASTRA        | 109   | 2.78 | 0.244     | 90.91   | 1.528   | 139.63 | 0.50 | OK  | 8413.88  | 42.24   |       |          |
| PIASTRA        | 110   | 1.34 | 0.244     | 90.91   | 1.591   | 144.99 | 0.24 | OK  | 8558.87  | 42.48   |       |          |
| PIASTRA        | 111   | 1.36 | 0.244     | 90.91   | 1.591   | 144.99 | 0.24 | OK  | 8703.86  | 42.72   |       |          |
| PIASTRA        | 112   | 1.37 | 0.244     | 90.91   | 1.591   | 144.99 | 0.25 | OK  | 8848.85  | 42.97   |       |          |
| PIASTRA        | 113   | 1.32 | 0.244     | 90.91   | 1.528   | 139.27 | 0.24 | OK  | 8988.13  | 43.21   |       |          |
| PIASTRA        | 114   | 2.84 | 0.244     | 90.91   | 1.591   | 145.35 | 0.51 | OK  | 9133.48  | 43.72   |       |          |
| PIASTRA        | 115   | 2.84 | 0.244     | 90.91   | 1.591   | 145.35 | 0.51 | OK  | 9278.83  | 44.23   |       |          |

VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE

| IDENTIFICATIVO |       |      | RISULTATI |         |         |        |      |     |          |         |       |          |
|----------------|-------|------|-----------|---------|---------|--------|------|-----|----------|---------|-------|----------|
| Combinazione   | Tipo  | Elem | N         | Tg(fi)/ | C/Gc/Gr | Area   | Vres | Fh  | Verifica | S(Vres) | S(Fh) | Verifica |
| N.ro           | Elem. | N.ro | (t)       | Gfi/Gr  | t/mq    | mq     | (t)  | (t) | Locale   | (t)     | (t)   | Globale  |
| PIASTRA        | 116   | 2.86 | 0.244     | 90.91   | 1.591   | 145.36 | 0.51 | OK  | 9424.18  | 44.74   |       |          |
| PIASTRA        | 117   | 2.76 | 0.244     | 90.91   | 1.528   | 139.62 | 0.50 | OK  | 9563.80  | 45.24   |       |          |
| PIASTRA        | 118   | 3.09 | 0.244     | 90.91   | 0.796   | 73.08  | 0.55 | OK  | 9636.89  | 45.79   |       |          |
| PIASTRA        | 119   | 3.02 | 0.244     | 90.91   | 0.796   | 73.06  | 0.54 | OK  | 9709.95  | 46.34   |       |          |
| PIASTRA        | 120   | 3.05 | 0.244     | 90.91   | 0.796   | 73.07  | 0.55 | OK  | 9783.02  | 46.88   |       |          |
| PIASTRA        | 121   | 3.01 | 0.244     | 90.91   | 0.764   | 70.21  | 0.54 | OK  | 9853.23  | 47.42   |       |          |
| PIASTRA        | 122   | 3.17 | 0.244     | 90.91   | 0.733   | 67.39  | 0.57 | OK  | 9920.62  | 47.99   |       |          |
| PIASTRA        | 123   | 3.13 | 0.244     | 90.91   | 0.733   | 67.38  | 0.56 | OK  | 9988.00  | 48.56   |       |          |
| PIASTRA        | 124   | 3.18 | 0.244     | 90.91   | 0.733   | 67.40  | 0.57 | OK  | 10055.40 | 49.13   |       |          |
| PIASTRA        | 125   | 3.36 | 0.244     | 90.91   | 0.754   | 69.34  | 0.60 | OK  | 10124.74 | 49.73   |       |          |
| PIASTRA        | 126   | 2.65 | 0.244     | 90.91   | 1.466   | 133.88 | 0.48 | OK  | 10258.62 | 50.21   |       |          |
| PIASTRA        | 127   | 2.62 | 0.244     | 90.91   | 1.466   | 133.88 | 0.47 | OK  | 10392.50 | 50.68   |       |          |
| PIASTRA        | 128   | 2.62 | 0.244     | 90.91   | 1.466   | 133.88 | 0.47 | OK  | 10526.37 | 51.15   |       |          |
| PIASTRA        | 129   | 2.68 | 0.244     | 90.91   | 1.508   | 137.70 | 0.48 | OK  | 10664.07 | 51.63   |       |          |
| PIASTRA        | 130   | 1.27 | 0.244     | 90.91   | 1.466   | 133.55 | 0.23 | OK  | 10797.62 | 51.86   |       |          |
| PIASTRA        | 131   | 1.25 | 0.244     | 90.91   | 1.466   | 133.54 | 0.23 | OK  | 10931.16 | 52.08   |       |          |
| PIASTRA        | 132   | 1.21 | 0.244     | 90.91   | 1.466   | 133.53 | 0.22 | OK  | 11064.70 | 52.30   |       |          |
| PIASTRA        | 133   | 1.20 | 0.244     | 90.91   | 1.508   | 137.34 | 0.22 | OK  | 11202.04 | 52.52   |       |          |
| PIASTRA        | 134   | 2.63 | 0.244     | 90.91   | 1.466   | 133.88 | 0.47 | OK  | 11335.92 | 52.99   |       |          |
| PIASTRA        | 135   | 2.59 | 0.244     | 90.91   | 1.466   | 133.87 | 0.47 | OK  | 11469.79 | 53.46   |       |          |
| PIASTRA        | 136   | 2.57 | 0.244     | 90.91   | 1.466   | 133.86 | 0.46 | OK  | 11603.65 | 53.92   |       |          |
| PIASTRA        | 137   | 2.60 | 0.244     | 90.91   | 1.508   | 137.68 | 0.47 | OK  | 11741.33 | 54.38   |       |          |
| PIASTRA        | 138   | 2.79 | 0.244     | 90.91   | 0.733   | 67.30  | 0.50 | OK  | 11808.63 | 54.89   |       |          |
| PIASTRA        | 139   | 2.73 | 0.244     | 90.91   | 0.733   | 67.28  | 0.49 | OK  | 11875.91 | 55.38   |       |          |
| PIASTRA        | 140   | 2.74 | 0.244     | 90.91   | 0.733   | 67.29  | 0.49 | OK  | 11943.20 | 55.87   |       |          |
| PIASTRA        | 141   | 2.87 | 0.244     | 90.91   | 0.754   | 69.22  | 0.52 | OK  | 12012.42 | 56.39   |       |          |
| PIASTRA        | 142   | 3.39 | 0.244     | 90.91   | 0.775   | 71.25  | 0.61 | OK  | 12083.67 | 56.99   |       |          |
| PIASTRA        | 143   | 3.38 | 0.244     | 90.91   | 0.775   | 71.25  | 0.61 | OK  | 12154.92 | 57.60   |       |          |
| PIASTRA        | 144   | 3.48 | 0.244     | 90.91   | 0.775   | 71.27  | 0.62 | OK  | 12226.20 | 58.23   |       |          |
| PIASTRA        | 145   | 1.81 | 0.244     | 90.91   | 0.387   | 35.65  | 0.32 | OK  | 12261.85 | 58.55   |       |          |
| PIASTRA        | 146   | 2.80 | 0.244     | 90.91   | 1.549   | 141.53 | 0.50 | OK  | 12403.38 | 59.05   |       |          |
| PIASTRA        | 147   | 3.27 | 0.244     | 90.91   | 1.549   | 141.65 | 0.59 | OK  | 12545.03 | 59.64   |       |          |
| PIASTRA        | 148   | 4.66 | 0.244     | 90.91   | 1.549   | 141.99 | 0.84 | OK  | 12687.02 | 60.48   |       |          |



VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE

| IDENTIFICATIVO |         |      | RISULTATI |         |         |       |        |      |          |          |       |          |
|----------------|---------|------|-----------|---------|---------|-------|--------|------|----------|----------|-------|----------|
| Combinazione   | Tipo    | Elem | N         | Tg(fi)/ | C/Gc/Gr | Area  | Vres   | Fh   | Verifica | S(Vres)  | S(Fh) | Verifica |
| N.ro           | Elem.   | N.ro | (t)       | Gfi/Gr  | t/mq    | mq    | (t)    | (t)  | Locale   | (t)      | (t)   | Globale  |
|                | PIASTRA | 149  | 3.12      | 0.244   | 90.91   | 0.775 | 71.19  | 0.56 | OK       | 12758.21 | 61.04 |          |
|                | PIASTRA | 150  | 1.35      | 0.244   | 90.91   | 1.549 | 141.18 | 0.24 | OK       | 12899.39 | 61.28 |          |
|                | PIASTRA | 151  | 2.05      | 0.244   | 90.91   | 1.549 | 141.35 | 0.37 | OK       | 13040.74 | 61.65 |          |
|                | PIASTRA | 152  | 3.81      | 0.244   | 90.91   | 1.549 | 141.78 | 0.68 | OK       | 13182.52 | 62.33 |          |
|                | PIASTRA | 153  | 2.81      | 0.244   | 90.91   | 0.775 | 71.11  | 0.51 | OK       | 13253.63 | 62.84 |          |
|                | PIASTRA | 154  | 2.69      | 0.244   | 90.91   | 1.549 | 141.51 | 0.48 | OK       | 13395.14 | 63.32 |          |
|                | PIASTRA | 155  | 3.06      | 0.244   | 90.91   | 1.549 | 141.60 | 0.55 | OK       | 13536.73 | 63.87 |          |
|                | PIASTRA | 156  | 4.16      | 0.244   | 90.91   | 1.549 | 141.87 | 0.75 | OK       | 13678.60 | 64.62 |          |
|                | PIASTRA | 157  | 2.71      | 0.244   | 90.91   | 0.775 | 71.09  | 0.49 | OK       | 13749.69 | 65.11 |          |
|                | PIASTRA | 158  | 2.83      | 0.244   | 90.91   | 0.775 | 71.11  | 0.51 | OK       | 13820.80 | 65.61 |          |
|                | PIASTRA | 159  | 2.74      | 0.244   | 90.91   | 0.775 | 71.09  | 0.49 | OK       | 13891.89 | 66.10 |          |
|                | PIASTRA | 160  | 2.73      | 0.244   | 90.91   | 0.775 | 71.09  | 0.49 | OK       | 13962.98 | 66.59 |          |
|                | PIASTRA | 161  | 1.36      | 0.244   | 90.91   | 0.387 | 35.54  | 0.24 | OK       | 13998.53 | 66.84 |          |
|                | PIASTRA | 213  | 1.73      | 0.244   | 90.91   | 0.577 | 52.92  | 0.31 | OK       | 14051.45 | 67.15 |          |
|                | PIASTRA | 214  | 1.16      | 0.244   | 90.91   | 0.577 | 52.78  | 0.21 | OK       | 14104.23 | 67.36 |          |
|                | PIASTRA | 215  | 1.97      | 0.244   | 90.91   | 0.577 | 52.98  | 0.35 | OK       | 14157.21 | 67.71 |          |
|                | PIASTRA | 216  | 2.34      | 0.244   | 90.91   | 0.577 | 53.07  | 0.42 | OK       | 14210.28 | 68.13 |          |
|                | PIASTRA | 217  | 2.86      | 0.244   | 90.91   | 1.155 | 105.70 | 0.51 | OK       | 14315.98 | 68.65 |          |
|                | PIASTRA | 218  | 1.88      | 0.244   | 90.91   | 1.155 | 105.46 | 0.34 | OK       | 14421.43 | 68.98 |          |
|                | PIASTRA | 219  | 2.58      | 0.244   | 90.91   | 1.155 | 105.63 | 0.46 | OK       | 14527.06 | 69.45 |          |
|                | PIASTRA | 220  | 3.46      | 0.244   | 90.91   | 1.155 | 105.84 | 0.62 | OK       | 14632.91 | 70.07 |          |
|                | PIASTRA | 221  | 2.09      | 0.244   | 90.91   | 0.919 | 84.03  | 0.38 | OK       | 14716.94 | 70.44 |          |
|                | PIASTRA | 222  | 1.56      | 0.244   | 90.91   | 0.919 | 83.90  | 0.28 | OK       | 14800.84 | 70.73 |          |
|                | PIASTRA | 223  | 1.75      | 0.244   | 90.91   | 0.919 | 83.95  | 0.31 | OK       | 14884.79 | 71.04 |          |
|                | PIASTRA | 224  | 1.96      | 0.244   | 90.91   | 0.577 | 52.98  | 0.35 | OK       | 14937.77 | 71.39 |          |
|                | PIASTRA | 225  | 1.15      | 0.244   | 90.91   | 0.577 | 52.78  | 0.21 | OK       | 14990.55 | 71.60 |          |
|                | PIASTRA | 226  | 1.74      | 0.244   | 90.91   | 0.577 | 52.92  | 0.31 | OK       | 15043.47 | 71.91 |          |
|                | PIASTRA | 227  | 2.58      | 0.244   | 90.91   | 1.155 | 105.63 | 0.46 | OK       | 15149.10 | 72.37 |          |
|                | PIASTRA | 228  | 1.88      | 0.244   | 90.91   | 1.155 | 105.46 | 0.34 | OK       | 15254.56 | 72.71 |          |
|                | PIASTRA | 229  | 2.87      | 0.244   | 90.91   | 1.155 | 105.70 | 0.51 | OK       | 15360.26 | 73.23 |          |
|                | PIASTRA | 230  | 2.33      | 0.244   | 90.91   | 0.577 | 53.07  | 0.42 | OK       | 15413.32 | 73.64 |          |
|                | PIASTRA | 231  | 1.74      | 0.244   | 90.91   | 0.919 | 83.95  | 0.31 | OK       | 15497.27 | 73.96 |          |
|                | PIASTRA | 232  | 1.56      | 0.244   | 90.91   | 0.919 | 83.90  | 0.28 | OK       | 15581.17 | 74.24 |          |

VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE

| IDENTIFICATIVO |       |      | RISULTATI |         |         |        |      |     |          |         |       |          |
|----------------|-------|------|-----------|---------|---------|--------|------|-----|----------|---------|-------|----------|
| Combinazione   | Tipo  | Elem | N         | Tg(fi)/ | C/Gc/Gr | Area   | Vres | Fh  | Verifica | S(Vres) | S(Fh) | Verifica |
| N.ro           | Elem. | N.ro | (t)       | Gfi/Gr  | t/mq    | mq     | (t)  | (t) | Locale   | (t)     | (t)   | Globale  |
| PIASTRA        | 233   | 2.08 | 0.244     | 90.91   | 0.919   | 84.03  | 0.37 | OK  | 15665.20 | 74.61   |       |          |
| PIASTRA        | 234   | 1.53 | 0.244     | 90.91   | 0.683   | 62.42  | 0.27 | OK  | 15727.62 | 74.89   |       |          |
| PIASTRA        | 235   | 1.42 | 0.244     | 90.91   | 0.683   | 62.39  | 0.26 | OK  | 15790.01 | 75.14   |       |          |
| PIASTRA        | 236   | 1.39 | 0.244     | 90.91   | 0.683   | 62.38  | 0.25 | OK  | 15852.40 | 75.39   |       |          |
| PIASTRA        | 237   | 1.60 | 0.244     | 90.91   | 0.683   | 62.44  | 0.29 | OK  | 15914.83 | 75.68   |       |          |
| PIASTRA        | 238   | 0.99 | 0.244     | 90.91   | 0.341   | 31.26  | 0.18 | OK  | 15946.10 | 75.86   |       |          |
| PIASTRA        | 239   | 0.77 | 0.244     | 90.91   | 0.341   | 31.21  | 0.14 | OK  | 15977.31 | 76.00   |       |          |
| PIASTRA        | 240   | 0.79 | 0.244     | 90.91   | 0.341   | 31.21  | 0.14 | OK  | 16008.52 | 76.14   |       |          |
| PIASTRA        | 241   | 0.81 | 0.244     | 90.91   | 0.341   | 31.22  | 0.15 | OK  | 16039.75 | 76.28   |       |          |
| PIASTRA        | 242   | 1.00 | 0.244     | 90.91   | 0.341   | 31.27  | 0.18 | OK  | 16071.01 | 76.46   |       |          |
| PIASTRA        | 243   | 1.61 | 0.244     | 90.91   | 0.683   | 62.44  | 0.29 | OK  | 16133.45 | 76.75   |       |          |
| PIASTRA        | 244   | 1.40 | 0.244     | 90.91   | 0.683   | 62.39  | 0.25 | OK  | 16195.83 | 77.00   |       |          |
| PIASTRA        | 245   | 1.43 | 0.244     | 90.91   | 0.683   | 62.39  | 0.26 | OK  | 16258.23 | 77.26   |       |          |
| PIASTRA        | 246   | 0.82 | 0.244     | 90.91   | 0.341   | 31.22  | 0.15 | OK  | 16289.45 | 77.41   |       |          |
| PIASTRA        | 247   | 0.79 | 0.244     | 90.91   | 0.341   | 31.22  | 0.14 | OK  | 16320.67 | 77.55   |       |          |
| PIASTRA        | 248   | 0.77 | 0.244     | 90.91   | 0.341   | 31.21  | 0.14 | OK  | 16351.88 | 77.69   |       |          |
| PIASTRA        | 283   | 3.20 | 0.244     | 90.91   | 0.701   | 64.54  | 0.58 | OK  | 16416.42 | 78.26   |       |          |
| PIASTRA        | 284   | 3.13 | 0.244     | 90.91   | 0.701   | 64.53  | 0.56 | OK  | 16480.95 | 78.83   |       |          |
| PIASTRA        | 285   | 3.15 | 0.244     | 90.91   | 0.701   | 64.53  | 0.57 | OK  | 16545.48 | 79.39   |       |          |
| PIASTRA        | 286   | 2.85 | 0.244     | 90.91   | 0.701   | 64.46  | 0.51 | OK  | 16609.94 | 79.90   |       |          |
| PIASTRA        | 287   | 4.40 | 0.244     | 90.91   | 1.403   | 128.60 | 0.79 | OK  | 16738.54 | 80.70   |       |          |
| PIASTRA        | 288   | 3.15 | 0.244     | 90.91   | 1.403   | 128.30 | 0.57 | OK  | 16866.83 | 81.26   |       |          |
| PIASTRA        | 289   | 2.60 | 0.244     | 90.91   | 1.403   | 128.16 | 0.47 | OK  | 16995.00 | 81.73   |       |          |
| PIASTRA        | 290   | 2.59 | 0.244     | 90.91   | 0.701   | 64.39  | 0.47 | OK  | 17059.39 | 82.19   |       |          |
| PIASTRA        | 291   | 3.67 | 0.244     | 90.91   | 1.403   | 128.42 | 0.66 | OK  | 17187.81 | 82.85   |       |          |
| PIASTRA        | 292   | 2.06 | 0.244     | 90.91   | 1.403   | 128.03 | 0.37 | OK  | 17315.84 | 83.22   |       |          |
| PIASTRA        | 293   | 1.27 | 0.244     | 90.91   | 1.403   | 127.84 | 0.23 | OK  | 17443.68 | 83.45   |       |          |
| PIASTRA        | 294   | 2.52 | 0.244     | 90.91   | 0.701   | 64.38  | 0.45 | OK  | 17508.06 | 83.90   |       |          |
| PIASTRA        | 295   | 3.98 | 0.244     | 90.91   | 1.403   | 128.50 | 0.72 | OK  | 17636.55 | 84.62   |       |          |
| PIASTRA        | 296   | 2.95 | 0.244     | 90.91   | 1.403   | 128.25 | 0.53 | OK  | 17764.80 | 85.15   |       |          |
| PIASTRA        | 297   | 2.51 | 0.244     | 90.91   | 1.403   | 128.14 | 0.45 | OK  | 17892.94 | 85.60   |       |          |
| PIASTRA        | 298   | 2.56 | 0.244     | 90.91   | 0.701   | 64.39  | 0.46 | OK  | 17957.33 | 86.06   |       |          |
| PIASTRA        | 299   | 2.57 | 0.244     | 90.91   | 0.701   | 64.39  | 0.46 | OK  | 18021.72 | 86.52   |       |          |

**VERIFICA ALLO SCORRIMENTO - CONDIZIONI DRENATE**

| IDENTIFICATIVO |       |      | RISULTATI |         |         |       |       |      |          |          |       |          |
|----------------|-------|------|-----------|---------|---------|-------|-------|------|----------|----------|-------|----------|
| Combinazione   | Tipo  | Elem | N         | Tg(fi)/ | C/Gc/Gr | Area  | Vres  | Fh   | Verifica | S(Vres)  | S(Fh) | Verifica |
| N.ro           | Elem. | N.ro | (t)       | Gfi/Gr  | t/mq    | mq    | (t)   | (t)  | Locale   | (t)      | (t)   | Globale  |
| PIASTRA        | 300   |      | 2.64      | 0.244   | 90.91   | 0.701 | 64.41 | 0.47 | OK       | 18086.13 | 87.00 | OK       |

**PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO - SLU**

| Comb    | DRENATE |        |          |      | NON DRENATE |        |          |      | RISULTATI |        |
|---------|---------|--------|----------|------|-------------|--------|----------|------|-----------|--------|
|         | Risult  | Resist | Moltipl. | %Pl. | Risult      | Resist | Moltipl. | %Pl. | Moltipl.  | STATUS |
| N.ro    | (t)     | (t)    | Collasso | Moll | (t)         | (t)    | Collasso | Moll | Minimo    | (m)    |
| A1 / 1  | 696     | 696    | 1.000    | 0    |             |        |          |      | 1.000     | OK     |
| A1 / 2  | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 3  | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 4  | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 5  | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 6  | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 7  | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 8  | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 9  | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 10 | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 11 | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 12 | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 13 | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 14 | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 15 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 16 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 17 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 18 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 19 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 20 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 21 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 22 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |

**PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO - SLU**

| Comb<br>N.ro | DRENATE       |               |                      |              | NON DRENATE   |               |                      |              | RISULTATI          |               |
|--------------|---------------|---------------|----------------------|--------------|---------------|---------------|----------------------|--------------|--------------------|---------------|
|              | Result<br>(t) | Resist<br>(t) | Moltipl.<br>Collasso | %Pl.<br>Moll | Result<br>(t) | Resist<br>(t) | Moltipl.<br>Collasso | %Pl.<br>Moll | Moltipl.<br>Minimo | STATUS<br>(m) |
| A1 / 23      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 24      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 25      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 26      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 27      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 28      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 29      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 30      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 31      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 32      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 33      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 34      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 35      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 36      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 37      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 38      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 39      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 40      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 41      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 42      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 43      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 44      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 45      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |
| A1 / 46      | 484           | 484           | 1.000                | 0            |               |               |                      |              |                    | OK            |

**PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: A1/1**

| Nodo3d | DRENATE |         | NON DRENATE |         | Nodo3d | DRENATE |         | NON DRENATE |         | Nodo3d | DRENATE |         | NON DRENATE |         |
|--------|---------|---------|-------------|---------|--------|---------|---------|-------------|---------|--------|---------|---------|-------------|---------|
|        | SpostZ/ | SpostZ/ | SpostZ/     | SpostZ/ |        | SpostZ/ | SpostZ/ | SpostZ/     | SpostZ/ |        | SpostZ/ | SpostZ/ | SpostZ/     | SpostZ/ |
|        |         |         |             |         |        |         |         |             |         |        |         |         |             |         |

| N.ro | (cm)   | SpostEI | (cm) | SpostEI | N.ro | (cm)   | SpostEI | (cm) | SpostEI | N.ro | (cm)   | SpostEI | (cm) | SpostEI |
|------|--------|---------|------|---------|------|--------|---------|------|---------|------|--------|---------|------|---------|
| 1    | -0.060 | ELAST.  |      |         | 2    | -0.054 | ELAST.  |      |         | 3    | -0.045 | ELAST.  |      |         |
| 4    | -0.032 | ELAST.  |      |         | 5    | -0.059 | ELAST.  |      |         | 6    | -0.044 | ELAST.  |      |         |
| 7    | -0.029 | ELAST.  |      |         | 8    | -0.038 | ELAST.  |      |         | 9    | -0.039 | ELAST.  |      |         |
| 11   | -0.071 | ELAST.  |      |         | 12   | -0.070 | ELAST.  |      |         | 13   | -0.042 | ELAST.  |      |         |
| 14   | -0.030 | ELAST.  |      |         | 15   | -0.025 | ELAST.  |      |         | 16   | -0.030 | ELAST.  |      |         |
| 17   | -0.041 | ELAST.  |      |         | 18   | -0.071 | ELAST.  |      |         | 19   | -0.062 | ELAST.  |      |         |
| 20   | -0.054 | ELAST.  |      |         | 21   | -0.051 | ELAST.  |      |         | 22   | -0.063 | ELAST.  |      |         |
| 23   | -0.064 | ELAST.  |      |         | 24   | -0.067 | ELAST.  |      |         | 25   | -0.028 | ELAST.  |      |         |
| 26   | -0.028 | ELAST.  |      |         | 27   | -0.031 | ELAST.  |      |         | 28   | -0.036 | ELAST.  |      |         |
| 29   | -0.014 | ELAST.  |      |         | 30   | -0.015 | ELAST.  |      |         | 31   | -0.020 | ELAST.  |      |         |
| 32   | -0.026 | ELAST.  |      |         | 33   | -0.025 | ELAST.  |      |         | 34   | -0.026 | ELAST.  |      |         |
| 35   | -0.028 | ELAST.  |      |         | 36   | -0.030 | ELAST.  |      |         | 37   | -0.052 | ELAST.  |      |         |
| 38   | -0.053 | ELAST.  |      |         | 39   | -0.054 | ELAST.  |      |         | 40   | -0.033 | ELAST.  |      |         |
| 41   | -0.055 | ELAST.  |      |         | 42   | -0.029 | ELAST.  |      |         | 43   | -0.027 | ELAST.  |      |         |
| 44   | -0.025 | ELAST.  |      |         | 45   | -0.030 | ELAST.  |      |         | 46   | -0.030 | ELAST.  |      |         |
| 47   | -0.029 | ELAST.  |      |         | 48   | -0.028 | ELAST.  |      |         | 49   | -0.028 | ELAST.  |      |         |
| 50   | -0.034 | ELAST.  |      |         | 51   | -0.033 | ELAST.  |      |         | 52   | -0.033 | ELAST.  |      |         |
| 53   | -0.034 | ELAST.  |      |         | 54   | -0.043 | ELAST.  |      |         | 55   | -0.043 | ELAST.  |      |         |
| 56   | -0.043 | ELAST.  |      |         | 57   | -0.043 | ELAST.  |      |         | 58   | -0.044 | ELAST.  |      |         |
| 59   | -0.054 | ELAST.  |      |         | 60   | -0.054 | ELAST.  |      |         | 61   | -0.055 | ELAST.  |      |         |
| 62   | -0.055 | ELAST.  |      |         | 63   | -0.025 | ELAST.  |      |         | 64   | -0.027 | ELAST.  |      |         |
| 65   | -0.029 | ELAST.  |      |         | 66   | -0.028 | ELAST.  |      |         | 67   | -0.029 | ELAST.  |      |         |
| 68   | -0.030 | ELAST.  |      |         | 69   | -0.029 | ELAST.  |      |         | 70   | -0.034 | ELAST.  |      |         |
| 71   | -0.034 | ELAST.  |      |         | 72   | -0.035 | ELAST.  |      |         | 73   | -0.034 | ELAST.  |      |         |
| 74   | -0.043 | ELAST.  |      |         | 75   | -0.043 | ELAST.  |      |         | 76   | -0.044 | ELAST.  |      |         |
| 77   | -0.044 | ELAST.  |      |         | 78   | -0.055 | ELAST.  |      |         | 79   | -0.055 | ELAST.  |      |         |
| 80   | -0.055 | ELAST.  |      |         | 81   | -0.056 | ELAST.  |      |         | 82   | -0.065 | ELAST.  |      |         |
| 83   | -0.062 | ELAST.  |      |         | 84   | -0.061 | ELAST.  |      |         | 85   | -0.061 | ELAST.  |      |         |
| 86   | -0.035 | ELAST.  |      |         | 87   | -0.030 | ELAST.  |      |         | 88   | -0.027 | ELAST.  |      |         |
| 89   | -0.027 | ELAST.  |      |         | 90   | -0.025 | ELAST.  |      |         | 91   | -0.019 | ELAST.  |      |         |
| 92   | -0.015 | ELAST.  |      |         | 93   | -0.013 | ELAST.  |      |         | 94   | -0.032 | ELAST.  |      |         |
| 95   | -0.029 | ELAST.  |      |         | 96   | -0.027 | ELAST.  |      |         | 97   | -0.026 | ELAST.  |      |         |
| 98   | -0.055 | ELAST.  |      |         | 99   | -0.055 | ELAST.  |      |         | 100  | -0.055 | ELAST.  |      |         |
| 101  | -0.055 | ELAST.  |      |         | 102  | -0.060 | ELAST.  |      |         | 103  | -0.059 | ELAST.  |      |         |
| 104  | -0.060 | ELAST.  |      |         | 105  | -0.060 | ELAST.  |      |         | 106  | -0.026 | ELAST.  |      |         |

PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: A1/1

| DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         |
|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|
| Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ |
| N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl |
| 107     | -0.026 | ELAST.      |        |         | 108     | -0.027 | ELAST.      |        |         | 109     | -0.027 | ELAST.      |        |         |
| 110     | -0.013 | ELAST.      |        |         | 111     | -0.013 | ELAST.      |        |         | 112     | -0.014 | ELAST.      |        |         |
| 113     | -0.014 | ELAST.      |        |         | 114     | -0.026 | ELAST.      |        |         | 115     | -0.026 | ELAST.      |        |         |
| 116     | -0.026 | ELAST.      |        |         | 117     | -0.026 | ELAST.      |        |         | 118     | -0.055 | ELAST.      |        |         |
| 119     | -0.055 | ELAST.      |        |         | 120     | -0.055 | ELAST.      |        |         | 121     | -0.055 | ELAST.      |        |         |
| 122     | -0.059 | ELAST.      |        |         | 123     | -0.059 | ELAST.      |        |         | 124     | -0.059 | ELAST.      |        |         |
| 125     | -0.059 | ELAST.      |        |         | 126     | -0.027 | ELAST.      |        |         | 127     | -0.026 | ELAST.      |        |         |
| 128     | -0.026 | ELAST.      |        |         | 129     | -0.026 | ELAST.      |        |         | 130     | -0.014 | ELAST.      |        |         |
| 131     | -0.013 | ELAST.      |        |         | 132     | -0.013 | ELAST.      |        |         | 133     | -0.013 | ELAST.      |        |         |
| 134     | -0.026 | ELAST.      |        |         | 135     | -0.026 | ELAST.      |        |         | 136     | -0.025 | ELAST.      |        |         |
| 137     | -0.025 | ELAST.      |        |         | 138     | -0.055 | ELAST.      |        |         | 139     | -0.054 | ELAST.      |        |         |
| 140     | -0.053 | ELAST.      |        |         | 141     | -0.052 | ELAST.      |        |         | 142     | -0.058 | ELAST.      |        |         |
| 143     | -0.059 | ELAST.      |        |         | 144     | -0.062 | ELAST.      |        |         | 145     | -0.067 | ELAST.      |        |         |
| 146     | -0.028 | ELAST.      |        |         | 147     | -0.033 | ELAST.      |        |         | 148     | -0.042 | ELAST.      |        |         |
| 149     | -0.053 | ELAST.      |        |         | 150     | -0.015 | ELAST.      |        |         | 151     | -0.022 | ELAST.      |        |         |
| 152     | -0.034 | ELAST.      |        |         | 153     | -0.046 | ELAST.      |        |         | 154     | -0.026 | ELAST.      |        |         |
| 155     | -0.031 | ELAST.      |        |         | 156     | -0.039 | ELAST.      |        |         | 157     | -0.048 | ELAST.      |        |         |
| 158     | -0.051 | ELAST.      |        |         | 159     | -0.051 | ELAST.      |        |         | 160     | -0.052 | ELAST.      |        |         |
| 161     | -0.055 | ELAST.      |        |         | 213     | -0.044 | ELAST.      |        |         | 214     | -0.038 | ELAST.      |        |         |
| 215     | -0.046 | ELAST.      |        |         | 216     | -0.052 | ELAST.      |        |         | 217     | -0.038 | ELAST.      |        |         |
| 218     | -0.032 | ELAST.      |        |         | 219     | -0.035 | ELAST.      |        |         | 220     | -0.039 | ELAST.      |        |         |
| 221     | -0.034 | ELAST.      |        |         | 222     | -0.029 | ELAST.      |        |         | 223     | -0.030 | ELAST.      |        |         |
| 224     | -0.046 | ELAST.      |        |         | 225     | -0.038 | ELAST.      |        |         | 226     | -0.043 | ELAST.      |        |         |
| 227     | -0.035 | ELAST.      |        |         | 228     | -0.031 | ELAST.      |        |         | 229     | -0.038 | ELAST.      |        |         |
| 230     | -0.051 | ELAST.      |        |         | 231     | -0.030 | ELAST.      |        |         | 232     | -0.029 | ELAST.      |        |         |
| 233     | -0.034 | ELAST.      |        |         | 234     | -0.030 | ELAST.      |        |         | 235     | -0.029 | ELAST.      |        |         |
| 236     | -0.029 | ELAST.      |        |         | 237     | -0.033 | ELAST.      |        |         | 238     | -0.041 | ELAST.      |        |         |
| 239     | -0.029 | ELAST.      |        |         | 240     | -0.029 | ELAST.      |        |         | 241     | -0.032 | ELAST.      |        |         |
| 242     | -0.041 | ELAST.      |        |         | 243     | -0.033 | ELAST.      |        |         | 244     | -0.029 | ELAST.      |        |         |
| 245     | -0.029 | ELAST.      |        |         | 246     | -0.032 | ELAST.      |        |         | 247     | -0.029 | ELAST.      |        |         |
| 248     | -0.029 | ELAST.      |        |         | 283     | -0.066 | ELAST.      |        |         | 284     | -0.063 | ELAST.      |        |         |
| 285     | -0.062 | ELAST.      |        |         | 286     | -0.055 | ELAST.      |        |         | 287     | -0.045 | ELAST.      |        |         |

**PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: A1/1**

| DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         |
|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|
| Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ |
| N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl |
| 288     | -0.036 | ELAST.      |        |         | 289     | -0.030 | ELAST.      |        |         | 290     | -0.047 | ELAST.      |        |         |
| 291     | -0.035 | ELAST.      |        |         | 292     | -0.024 | ELAST.      |        |         | 293     | -0.016 | ELAST.      |        |         |
| 294     | -0.047 | ELAST.      |        |         | 295     | -0.039 | ELAST.      |        |         | 296     | -0.031 | ELAST.      |        |         |
| 297     | -0.027 | ELAST.      |        |         | 298     | -0.051 | ELAST.      |        |         | 299     | -0.050 | ELAST.      |        |         |
| 300     | -0.050 | ELAST.      |        |         |         |        |             |        |         |         |        |             |        |         |

**PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO - SLD**

| Comb    | DRENATE |        |          |      | NON DRENATE |        |          |      | RISULTATI |        |
|---------|---------|--------|----------|------|-------------|--------|----------|------|-----------|--------|
|         | Result  | Resist | Moltipl. | %PI. | Result      | Resist | Moltipl. | %PI. | Moltipl.  | STATUS |
| N.ro    | (t)     | (t)    | Collasso | Moll | (t)         | (t)    | Collasso | Moll | Minimo    | (m)    |
| A1 / 1  | 696     | 696    | 1.000    | 0    |             |        |          |      | 1.000     | OK     |
| A1 / 2  | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 3  | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 4  | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 5  | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 6  | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 7  | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 8  | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 9  | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 10 | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 11 | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 12 | 696     | 696    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 13 | 690     | 690    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 14 | 681     | 681    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 15 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 16 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 17 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |
| A1 / 18 | 484     | 484    | 1.000    | 0    |             |        |          |      |           | OK     |

**PORTANZA GLOBALE PIASTRE - MOLTIPLICATORI DI COLLASSO - SLD**

| Comb<br>N.ro | DRENATE       |               |                     |              | NON DRENATE   |               |                     |              | RISULTATI         |               |
|--------------|---------------|---------------|---------------------|--------------|---------------|---------------|---------------------|--------------|-------------------|---------------|
|              | Result<br>(t) | Resist<br>(t) | Multip.<br>Collasso | %Pl.<br>Moll | Result<br>(t) | Resist<br>(t) | Multip.<br>Collasso | %Pl.<br>Moll | Multip.<br>Minimo | STATUS<br>(m) |
| A1 / 19      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 20      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 21      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 22      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 23      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 24      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 25      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 26      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 27      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 28      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 29      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 30      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 31      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 32      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 33      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 34      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 35      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 36      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 37      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 38      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 39      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 40      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 41      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 42      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 43      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 44      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 45      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |
| A1 / 46      | 484           | 484           | 1.000               | 0            |               |               |                     |              |                   | OK            |



PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: SLD/1

| DRENATE |        | NON DRENATE        |        | DRENATE            |        | NON DRENATE |                    | DRENATE |                    | NON DRENATE |        |                    |        |                    |
|---------|--------|--------------------|--------|--------------------|--------|-------------|--------------------|---------|--------------------|-------------|--------|--------------------|--------|--------------------|
| Nodo3d  | SpostZ | SpostZ/<br>SpostEl | SpostZ | SpostZ/<br>SpostEl | Nodo3d | SpostZ      | SpostZ/<br>SpostEl | SpostZ  | SpostZ/<br>SpostEl | Nodo3d      | SpostZ | SpostZ/<br>SpostEl | SpostZ | SpostZ/<br>SpostEl |
| N.ro    | (cm)   |                    | (cm)   |                    | N.ro   | (cm)        |                    | (cm)    |                    | N.ro        | (cm)   |                    | (cm)   |                    |
| 1       | -0.060 | ELAST.             |        |                    | 2      | -0.054      | ELAST.             |         |                    | 3           | -0.045 | ELAST.             |        |                    |
| 4       | -0.032 | ELAST.             |        |                    | 5      | -0.059      | ELAST.             |         |                    | 6           | -0.044 | ELAST.             |        |                    |
| 7       | -0.029 | ELAST.             |        |                    | 8      | -0.038      | ELAST.             |         |                    | 9           | -0.039 | ELAST.             |        |                    |
| 11      | -0.071 | ELAST.             |        |                    | 12     | -0.070      | ELAST.             |         |                    | 13          | -0.042 | ELAST.             |        |                    |
| 14      | -0.030 | ELAST.             |        |                    | 15     | -0.025      | ELAST.             |         |                    | 16          | -0.030 | ELAST.             |        |                    |
| 17      | -0.041 | ELAST.             |        |                    | 18     | -0.071      | ELAST.             |         |                    | 19          | -0.062 | ELAST.             |        |                    |
| 20      | -0.054 | ELAST.             |        |                    | 21     | -0.051      | ELAST.             |         |                    | 22          | -0.063 | ELAST.             |        |                    |
| 23      | -0.064 | ELAST.             |        |                    | 24     | -0.067      | ELAST.             |         |                    | 25          | -0.028 | ELAST.             |        |                    |
| 26      | -0.028 | ELAST.             |        |                    | 27     | -0.031      | ELAST.             |         |                    | 28          | -0.036 | ELAST.             |        |                    |
| 29      | -0.014 | ELAST.             |        |                    | 30     | -0.015      | ELAST.             |         |                    | 31          | -0.020 | ELAST.             |        |                    |
| 32      | -0.026 | ELAST.             |        |                    | 33     | -0.025      | ELAST.             |         |                    | 34          | -0.026 | ELAST.             |        |                    |
| 35      | -0.028 | ELAST.             |        |                    | 36     | -0.030      | ELAST.             |         |                    | 37          | -0.052 | ELAST.             |        |                    |
| 38      | -0.053 | ELAST.             |        |                    | 39     | -0.054      | ELAST.             |         |                    | 40          | -0.033 | ELAST.             |        |                    |
| 41      | -0.055 | ELAST.             |        |                    | 42     | -0.029      | ELAST.             |         |                    | 43          | -0.027 | ELAST.             |        |                    |
| 44      | -0.025 | ELAST.             |        |                    | 45     | -0.030      | ELAST.             |         |                    | 46          | -0.030 | ELAST.             |        |                    |
| 47      | -0.029 | ELAST.             |        |                    | 48     | -0.028      | ELAST.             |         |                    | 49          | -0.028 | ELAST.             |        |                    |
| 50      | -0.034 | ELAST.             |        |                    | 51     | -0.033      | ELAST.             |         |                    | 52          | -0.033 | ELAST.             |        |                    |
| 53      | -0.034 | ELAST.             |        |                    | 54     | -0.043      | ELAST.             |         |                    | 55          | -0.043 | ELAST.             |        |                    |
| 56      | -0.043 | ELAST.             |        |                    | 57     | -0.043      | ELAST.             |         |                    | 58          | -0.044 | ELAST.             |        |                    |
| 59      | -0.054 | ELAST.             |        |                    | 60     | -0.054      | ELAST.             |         |                    | 61          | -0.055 | ELAST.             |        |                    |
| 62      | -0.055 | ELAST.             |        |                    | 63     | -0.025      | ELAST.             |         |                    | 64          | -0.027 | ELAST.             |        |                    |
| 65      | -0.029 | ELAST.             |        |                    | 66     | -0.028      | ELAST.             |         |                    | 67          | -0.029 | ELAST.             |        |                    |
| 68      | -0.030 | ELAST.             |        |                    | 69     | -0.029      | ELAST.             |         |                    | 70          | -0.034 | ELAST.             |        |                    |
| 71      | -0.034 | ELAST.             |        |                    | 72     | -0.035      | ELAST.             |         |                    | 73          | -0.034 | ELAST.             |        |                    |
| 74      | -0.043 | ELAST.             |        |                    | 75     | -0.043      | ELAST.             |         |                    | 76          | -0.044 | ELAST.             |        |                    |
| 77      | -0.044 | ELAST.             |        |                    | 78     | -0.055      | ELAST.             |         |                    | 79          | -0.055 | ELAST.             |        |                    |
| 80      | -0.055 | ELAST.             |        |                    | 81     | -0.056      | ELAST.             |         |                    | 82          | -0.065 | ELAST.             |        |                    |
| 83      | -0.062 | ELAST.             |        |                    | 84     | -0.061      | ELAST.             |         |                    | 85          | -0.061 | ELAST.             |        |                    |
| 86      | -0.035 | ELAST.             |        |                    | 87     | -0.030      | ELAST.             |         |                    | 88          | -0.027 | ELAST.             |        |                    |
| 89      | -0.027 | ELAST.             |        |                    | 90     | -0.025      | ELAST.             |         |                    | 91          | -0.019 | ELAST.             |        |                    |
| 92      | -0.015 | ELAST.             |        |                    | 93     | -0.013      | ELAST.             |         |                    | 94          | -0.032 | ELAST.             |        |                    |

PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: SLD/1

| DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         |
|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|
| Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ |
| N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl |
| 95      | -0.029 | ELAST.      |        |         | 96      | -0.027 | ELAST.      |        |         | 97      | -0.026 | ELAST.      |        |         |
| 98      | -0.055 | ELAST.      |        |         | 99      | -0.055 | ELAST.      |        |         | 100     | -0.055 | ELAST.      |        |         |
| 101     | -0.055 | ELAST.      |        |         | 102     | -0.060 | ELAST.      |        |         | 103     | -0.059 | ELAST.      |        |         |
| 104     | -0.060 | ELAST.      |        |         | 105     | -0.060 | ELAST.      |        |         | 106     | -0.026 | ELAST.      |        |         |
| 107     | -0.026 | ELAST.      |        |         | 108     | -0.027 | ELAST.      |        |         | 109     | -0.027 | ELAST.      |        |         |
| 110     | -0.013 | ELAST.      |        |         | 111     | -0.013 | ELAST.      |        |         | 112     | -0.014 | ELAST.      |        |         |
| 113     | -0.014 | ELAST.      |        |         | 114     | -0.026 | ELAST.      |        |         | 115     | -0.026 | ELAST.      |        |         |
| 116     | -0.026 | ELAST.      |        |         | 117     | -0.026 | ELAST.      |        |         | 118     | -0.055 | ELAST.      |        |         |
| 119     | -0.055 | ELAST.      |        |         | 120     | -0.055 | ELAST.      |        |         | 121     | -0.055 | ELAST.      |        |         |
| 122     | -0.059 | ELAST.      |        |         | 123     | -0.059 | ELAST.      |        |         | 124     | -0.059 | ELAST.      |        |         |
| 125     | -0.059 | ELAST.      |        |         | 126     | -0.027 | ELAST.      |        |         | 127     | -0.026 | ELAST.      |        |         |
| 128     | -0.026 | ELAST.      |        |         | 129     | -0.026 | ELAST.      |        |         | 130     | -0.014 | ELAST.      |        |         |
| 131     | -0.013 | ELAST.      |        |         | 132     | -0.013 | ELAST.      |        |         | 133     | -0.013 | ELAST.      |        |         |
| 134     | -0.026 | ELAST.      |        |         | 135     | -0.026 | ELAST.      |        |         | 136     | -0.025 | ELAST.      |        |         |
| 137     | -0.025 | ELAST.      |        |         | 138     | -0.055 | ELAST.      |        |         | 139     | -0.054 | ELAST.      |        |         |
| 140     | -0.053 | ELAST.      |        |         | 141     | -0.052 | ELAST.      |        |         | 142     | -0.058 | ELAST.      |        |         |
| 143     | -0.059 | ELAST.      |        |         | 144     | -0.062 | ELAST.      |        |         | 145     | -0.067 | ELAST.      |        |         |
| 146     | -0.028 | ELAST.      |        |         | 147     | -0.033 | ELAST.      |        |         | 148     | -0.042 | ELAST.      |        |         |
| 149     | -0.053 | ELAST.      |        |         | 150     | -0.015 | ELAST.      |        |         | 151     | -0.022 | ELAST.      |        |         |
| 152     | -0.034 | ELAST.      |        |         | 153     | -0.046 | ELAST.      |        |         | 154     | -0.026 | ELAST.      |        |         |
| 155     | -0.031 | ELAST.      |        |         | 156     | -0.039 | ELAST.      |        |         | 157     | -0.048 | ELAST.      |        |         |
| 158     | -0.051 | ELAST.      |        |         | 159     | -0.051 | ELAST.      |        |         | 160     | -0.052 | ELAST.      |        |         |
| 161     | -0.055 | ELAST.      |        |         | 213     | -0.044 | ELAST.      |        |         | 214     | -0.038 | ELAST.      |        |         |
| 215     | -0.046 | ELAST.      |        |         | 216     | -0.052 | ELAST.      |        |         | 217     | -0.038 | ELAST.      |        |         |
| 218     | -0.032 | ELAST.      |        |         | 219     | -0.035 | ELAST.      |        |         | 220     | -0.039 | ELAST.      |        |         |
| 221     | -0.034 | ELAST.      |        |         | 222     | -0.029 | ELAST.      |        |         | 223     | -0.030 | ELAST.      |        |         |
| 224     | -0.046 | ELAST.      |        |         | 225     | -0.038 | ELAST.      |        |         | 226     | -0.043 | ELAST.      |        |         |
| 227     | -0.035 | ELAST.      |        |         | 228     | -0.031 | ELAST.      |        |         | 229     | -0.038 | ELAST.      |        |         |
| 230     | -0.051 | ELAST.      |        |         | 231     | -0.030 | ELAST.      |        |         | 232     | -0.029 | ELAST.      |        |         |
| 233     | -0.034 | ELAST.      |        |         | 234     | -0.030 | ELAST.      |        |         | 235     | -0.029 | ELAST.      |        |         |
| 236     | -0.029 | ELAST.      |        |         | 237     | -0.033 | ELAST.      |        |         | 238     | -0.041 | ELAST.      |        |         |
| 239     | -0.029 | ELAST.      |        |         | 240     | -0.029 | ELAST.      |        |         | 241     | -0.032 | ELAST.      |        |         |

PORTANZA GLOBALE PIASTRE - ABBASSAMENTI COMBINAZ.: SLD/1

| DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         | DRENATE |        | NON DRENATE |        |         |
|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|---------|--------|-------------|--------|---------|
| Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ | Nodo3d  | SpostZ | SpostZ/     | SpostZ | SpostZ/ |
| N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl | N.ro    | (cm)   | SpostEl     | (cm)   | SpostEl |
| 242     | -0.041 | ELAST.      |        |         | 243     | -0.033 | ELAST.      |        |         | 244     | -0.029 | ELAST.      |        |         |
| 245     | -0.029 | ELAST.      |        |         | 246     | -0.032 | ELAST.      |        |         | 247     | -0.029 | ELAST.      |        |         |
| 248     | -0.029 | ELAST.      |        |         | 283     | -0.066 | ELAST.      |        |         | 284     | -0.063 | ELAST.      |        |         |
| 285     | -0.062 | ELAST.      |        |         | 286     | -0.055 | ELAST.      |        |         | 287     | -0.045 | ELAST.      |        |         |
| 288     | -0.036 | ELAST.      |        |         | 289     | -0.030 | ELAST.      |        |         | 290     | -0.047 | ELAST.      |        |         |
| 291     | -0.035 | ELAST.      |        |         | 292     | -0.024 | ELAST.      |        |         | 293     | -0.016 | ELAST.      |        |         |
| 294     | -0.047 | ELAST.      |        |         | 295     | -0.039 | ELAST.      |        |         | 296     | -0.031 | ELAST.      |        |         |
| 297     | -0.027 | ELAST.      |        |         | 298     | -0.051 | ELAST.      |        |         | 299     | -0.050 | ELAST.      |        |         |
| 300     | -0.050 | ELAST.      |        |         |         |        |             |        |         |         |        |             |        |         |

CEDIMENTI ELASTICI ED EDOMETRICI

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
| 1    | Rare 1   | 0.94    | 0.94    | 2    | Rare 1   | 1.29    | 1.29    | 3    | Rare 1   | 1.17    | 1.17    | 4    | Rare 1   | 1.31    | 1.31    |
|      | Rare 2   | 0.93    | 0.93    |      | Rare 2   | 1.28    | 1.28    |      | Rare 2   | 1.16    | 1.16    |      | Rare 2   | 1.30    | 1.30    |
|      | Rare 3   | 0.94    | 0.94    |      | Rare 3   | 1.29    | 1.29    |      | Rare 3   | 1.17    | 1.17    |      | Rare 3   | 1.31    | 1.31    |
|      | Rare 4   | 0.93    | 0.93    |      | Rare 4   | 1.28    | 1.28    |      | Rare 4   | 1.16    | 1.16    |      | Rare 4   | 1.30    | 1.30    |
|      | Rare 5   | 0.92    | 0.92    |      | Rare 5   | 1.26    | 1.26    |      | Rare 5   | 1.14    | 1.14    |      | Rare 5   | 1.28    | 1.28    |
|      | Rare 6   | 0.92    | 0.92    |      | Rare 6   | 1.27    | 1.27    |      | Rare 6   | 1.15    | 1.15    |      | Rare 6   | 1.29    | 1.29    |
|      | Rare 7   | 0.91    | 0.91    |      | Rare 7   | 1.25    | 1.25    |      | Rare 7   | 1.14    | 1.14    |      | Rare 7   | 1.28    | 1.28    |
|      | Rare 8   | 0.88    | 0.88    |      | Rare 8   | 1.22    | 1.22    |      | Rare 8   | 1.11    | 1.11    |      | Rare 8   | 1.25    | 1.25    |
|      | Rare 9   | 0.95    | 0.95    |      | Rare 9   | 1.29    | 1.29    |      | Rare 9   | 1.17    | 1.17    |      | Rare 9   | 1.31    | 1.31    |
|      | Rare 10  | 0.94    | 0.94    |      | Rare 10  | 1.28    | 1.28    |      | Rare 10  | 1.16    | 1.16    |      | Rare 10  | 1.30    | 1.30    |
|      | Rare 11  | 0.92    | 0.92    |      | Rare 11  | 1.26    | 1.26    |      | Rare 11  | 1.14    | 1.14    |      | Rare 11  | 1.28    | 1.28    |
|      | Rare 12  | 0.97    | 0.97    |      | Rare 12  | 1.32    | 1.32    |      | Rare 12  | 1.20    | 1.20    |      | Rare 12  | 1.34    | 1.34    |
|      | Rare 13  | 0.96    | 0.96    |      | Rare 13  | 1.31    | 1.31    |      | Rare 13  | 1.18    | 1.18    |      | Rare 13  | 1.32    | 1.32    |
|      | Rare 14  | 0.97    | 0.97    |      | Rare 14  | 1.30    | 1.30    |      | Rare 14  | 1.18    | 1.18    |      | Rare 14  | 1.32    | 1.32    |
|      | Freq 1   | 0.90    | 0.90    |      | Freq 1   | 1.23    | 1.23    |      | Freq 1   | 1.12    | 1.12    |      | Freq 1   | 1.25    | 1.25    |
|      | Freq 2   | 0.90    | 0.90    |      | Freq 2   | 1.23    | 1.23    |      | Freq 2   | 1.12    | 1.12    |      | Freq 2   | 1.25    | 1.25    |
|      | Freq 3   | 0.89    | 0.89    |      | Freq 3   | 1.22    | 1.22    |      | Freq 3   | 1.11    | 1.11    |      | Freq 3   | 1.24    | 1.24    |
|      | Freq 4   | 0.89    | 0.89    |      | Freq 4   | 1.21    | 1.21    |      | Freq 4   | 1.10    | 1.10    |      | Freq 4   | 1.24    | 1.24    |
|      | Freq 5   | 0.90    | 0.90    |      | Freq 5   | 1.22    | 1.22    |      | Freq 5   | 1.11    | 1.11    |      | Freq 5   | 1.24    | 1.24    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 6   | 0.90    | 0.90    |      | Freq 6   | 1.23    | 1.23    |      | Freq 6   | 1.12    | 1.12    |      | Freq 6   | 1.25    | 1.25    |
|      | Perm 1   | 0.89    | 0.89    |      | Perm 1   | 1.22    | 1.22    |      | Perm 1   | 1.11    | 1.11    |      | Perm 1   | 1.24    | 1.24    |
|      | MAX.     | 0.97    | 0.97    |      | MAX.     | 1.32    | 1.32    |      | MAX.     | 1.20    | 1.20    |      | MAX.     | 1.34    | 1.34    |
| 5    | Rare 1   | 1.17    | 1.17    | 6    | Rare 1   | 1.25    | 1.25    | 7    | Rare 1   | 1.21    | 1.21    | 8    | Rare 1   | 1.20    | 1.20    |
|      | Rare 2   | 1.16    | 1.16    |      | Rare 2   | 1.24    | 1.24    |      | Rare 2   | 1.19    | 1.19    |      | Rare 2   | 1.18    | 1.18    |
|      | Rare 3   | 1.17    | 1.17    |      | Rare 3   | 1.25    | 1.25    |      | Rare 3   | 1.21    | 1.21    |      | Rare 3   | 1.20    | 1.20    |
|      | Rare 4   | 1.16    | 1.16    |      | Rare 4   | 1.24    | 1.24    |      | Rare 4   | 1.19    | 1.19    |      | Rare 4   | 1.18    | 1.18    |
|      | Rare 5   | 1.14    | 1.14    |      | Rare 5   | 1.22    | 1.22    |      | Rare 5   | 1.17    | 1.17    |      | Rare 5   | 1.16    | 1.16    |
|      | Rare 6   | 1.15    | 1.15    |      | Rare 6   | 1.24    | 1.24    |      | Rare 6   | 1.19    | 1.19    |      | Rare 6   | 1.18    | 1.18    |
|      | Rare 7   | 1.14    | 1.14    |      | Rare 7   | 1.22    | 1.22    |      | Rare 7   | 1.18    | 1.18    |      | Rare 7   | 1.16    | 1.16    |
|      | Rare 8   | 1.11    | 1.11    |      | Rare 8   | 1.19    | 1.19    |      | Rare 8   | 1.15    | 1.15    |      | Rare 8   | 1.13    | 1.13    |
|      | Rare 9   | 1.17    | 1.17    |      | Rare 9   | 1.25    | 1.25    |      | Rare 9   | 1.21    | 1.21    |      | Rare 9   | 1.20    | 1.20    |
|      | Rare 10  | 1.16    | 1.16    |      | Rare 10  | 1.24    | 1.24    |      | Rare 10  | 1.19    | 1.19    |      | Rare 10  | 1.18    | 1.18    |
|      | Rare 11  | 1.14    | 1.14    |      | Rare 11  | 1.22    | 1.22    |      | Rare 11  | 1.17    | 1.17    |      | Rare 11  | 1.16    | 1.16    |
|      | Rare 12  | 1.20    | 1.20    |      | Rare 12  | 1.27    | 1.27    |      | Rare 12  | 1.23    | 1.23    |      | Rare 12  | 1.22    | 1.22    |
|      | Rare 13  | 1.18    | 1.18    |      | Rare 13  | 1.26    | 1.26    |      | Rare 13  | 1.21    | 1.21    |      | Rare 13  | 1.20    | 1.20    |
|      | Rare 14  | 1.18    | 1.18    |      | Rare 14  | 1.25    | 1.25    |      | Rare 14  | 1.20    | 1.20    |      | Rare 14  | 1.19    | 1.19    |
|      | Freq 1   | 1.12    | 1.12    |      | Freq 1   | 1.18    | 1.18    |      | Freq 1   | 1.14    | 1.14    |      | Freq 1   | 1.13    | 1.13    |
|      | Freq 2   | 1.12    | 1.12    |      | Freq 2   | 1.19    | 1.19    |      | Freq 2   | 1.14    | 1.14    |      | Freq 2   | 1.13    | 1.13    |
|      | Freq 3   | 1.11    | 1.11    |      | Freq 3   | 1.18    | 1.18    |      | Freq 3   | 1.13    | 1.13    |      | Freq 3   | 1.12    | 1.12    |
|      | Freq 4   | 1.10    | 1.10    |      | Freq 4   | 1.17    | 1.17    |      | Freq 4   | 1.13    | 1.13    |      | Freq 4   | 1.12    | 1.12    |
|      | Freq 5   | 1.11    | 1.11    |      | Freq 5   | 1.18    | 1.18    |      | Freq 5   | 1.13    | 1.13    |      | Freq 5   | 1.12    | 1.12    |
|      | Freq 6   | 1.12    | 1.12    |      | Freq 6   | 1.18    | 1.18    |      | Freq 6   | 1.14    | 1.14    |      | Freq 6   | 1.13    | 1.13    |
|      | Perm 1   | 1.11    | 1.11    |      | Perm 1   | 1.18    | 1.18    |      | Perm 1   | 1.13    | 1.13    |      | Perm 1   | 1.12    | 1.12    |
|      | MAX.     | 1.20    | 1.20    |      | MAX.     | 1.27    | 1.27    |      | MAX.     | 1.23    | 1.23    |      | MAX.     | 1.22    | 1.22    |
| 9    | Rare 1   | 0.89    | 0.89    | 10   | Rare 1   | 0.71    | 0.71    | 11   | Rare 1   | 1.06    | 1.06    | 12   | Rare 1   | 1.05    | 1.05    |
|      | Rare 2   | 0.88    | 0.88    |      | Rare 2   | 0.70    | 0.70    |      | Rare 2   | 1.05    | 1.05    |      | Rare 2   | 1.04    | 1.04    |
|      | Rare 3   | 0.90    | 0.90    |      | Rare 3   | 0.71    | 0.71    |      | Rare 3   | 1.06    | 1.06    |      | Rare 3   | 1.05    | 1.05    |
|      | Rare 4   | 0.89    | 0.89    |      | Rare 4   | 0.70    | 0.70    |      | Rare 4   | 1.05    | 1.05    |      | Rare 4   | 1.04    | 1.04    |
|      | Rare 5   | 0.87    | 0.87    |      | Rare 5   | 0.69    | 0.69    |      | Rare 5   | 1.03    | 1.03    |      | Rare 5   | 1.02    | 1.02    |
|      | Rare 6   | 0.87    | 0.87    |      | Rare 6   | 0.73    | 0.73    |      | Rare 6   | 1.08    | 1.08    |      | Rare 6   | 1.06    | 1.06    |
|      | Rare 7   | 0.86    | 0.86    |      | Rare 7   | 0.73    | 0.73    |      | Rare 7   | 1.07    | 1.07    |      | Rare 7   | 1.05    | 1.05    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 8   | 0.83    | 0.83    |      | Rare 8   | 0.73    | 0.73    |      | Rare 8   | 1.06    | 1.06    |      | Rare 8   | 1.04    | 1.04    |
|      | Rare 9   | 0.89    | 0.89    |      | Rare 9   | 0.71    | 0.71    |      | Rare 9   | 1.07    | 1.07    |      | Rare 9   | 1.05    | 1.05    |
|      | Rare 10  | 0.88    | 0.88    |      | Rare 10  | 0.71    | 0.71    |      | Rare 10  | 1.05    | 1.05    |      | Rare 10  | 1.04    | 1.04    |
|      | Rare 11  | 0.87    | 0.87    |      | Rare 11  | 0.70    | 0.70    |      | Rare 11  | 1.03    | 1.03    |      | Rare 11  | 1.02    | 1.02    |
|      | Rare 12  | 0.92    | 0.92    |      | Rare 12  | 0.69    | 0.69    |      | Rare 12  | 1.05    | 1.05    |      | Rare 12  | 1.04    | 1.04    |
|      | Rare 13  | 0.91    | 0.91    |      | Rare 13  | 0.68    | 0.68    |      | Rare 13  | 1.03    | 1.03    |      | Rare 13  | 1.03    | 1.03    |
|      | Rare 14  | 0.91    | 0.91    |      | Rare 14  | 0.65    | 0.65    |      | Rare 14  | 1.00    | 1.00    |      | Rare 14  | 1.00    | 1.00    |
|      | Freq 1   | 0.85    | 0.85    |      | Freq 1   | 0.68    | 0.68    |      | Freq 1   | 1.01    | 1.01    |      | Freq 1   | 0.99    | 0.99    |
|      | Freq 2   | 0.85    | 0.85    |      | Freq 2   | 0.68    | 0.68    |      | Freq 2   | 1.01    | 1.01    |      | Freq 2   | 0.99    | 0.99    |
|      | Freq 3   | 0.85    | 0.85    |      | Freq 3   | 0.67    | 0.67    |      | Freq 3   | 1.00    | 1.00    |      | Freq 3   | 0.98    | 0.98    |
|      | Freq 4   | 0.84    | 0.84    |      | Freq 4   | 0.68    | 0.68    |      | Freq 4   | 1.00    | 1.00    |      | Freq 4   | 0.99    | 0.99    |
|      | Freq 5   | 0.84    | 0.84    |      | Freq 5   | 0.67    | 0.67    |      | Freq 5   | 1.00    | 1.00    |      | Freq 5   | 0.98    | 0.98    |
|      | Freq 6   | 0.85    | 0.85    |      | Freq 6   | 0.66    | 0.66    |      | Freq 6   | 0.99    | 0.99    |      | Freq 6   | 0.98    | 0.98    |
|      | Perm 1   | 0.85    | 0.85    |      | Perm 1   | 0.67    | 0.67    |      | Perm 1   | 1.00    | 1.00    |      | Perm 1   | 0.98    | 0.98    |
|      | MAX.     | 0.92    | 0.92    |      | MAX.     | 0.73    | 0.73    |      | MAX.     | 1.08    | 1.08    |      | MAX.     | 1.06    | 1.06    |
| 13   | Rare 1   | 1.04    | 1.04    | 14   | Rare 1   | 1.00    | 1.00    | 15   | Rare 1   | 1.13    | 1.13    | 16   | Rare 1   | 1.11    | 1.11    |
|      | Rare 2   | 1.02    | 1.02    |      | Rare 2   | 0.98    | 0.98    |      | Rare 2   | 1.12    | 1.12    |      | Rare 2   | 1.10    | 1.10    |
|      | Rare 3   | 1.04    | 1.04    |      | Rare 3   | 1.00    | 1.00    |      | Rare 3   | 1.13    | 1.13    |      | Rare 3   | 1.11    | 1.11    |
|      | Rare 4   | 1.02    | 1.02    |      | Rare 4   | 0.98    | 0.98    |      | Rare 4   | 1.12    | 1.12    |      | Rare 4   | 1.10    | 1.10    |
|      | Rare 5   | 1.00    | 1.00    |      | Rare 5   | 0.96    | 0.96    |      | Rare 5   | 1.10    | 1.10    |      | Rare 5   | 1.08    | 1.08    |
|      | Rare 6   | 1.04    | 1.04    |      | Rare 6   | 1.01    | 1.01    |      | Rare 6   | 1.14    | 1.14    |      | Rare 6   | 1.12    | 1.12    |
|      | Rare 7   | 1.03    | 1.03    |      | Rare 7   | 0.99    | 0.99    |      | Rare 7   | 1.13    | 1.13    |      | Rare 7   | 1.11    | 1.11    |
|      | Rare 8   | 1.02    | 1.02    |      | Rare 8   | 0.98    | 0.98    |      | Rare 8   | 1.11    | 1.11    |      | Rare 8   | 1.10    | 1.10    |
|      | Rare 9   | 1.04    | 1.04    |      | Rare 9   | 1.00    | 1.00    |      | Rare 9   | 1.13    | 1.13    |      | Rare 9   | 1.11    | 1.11    |
|      | Rare 10  | 1.02    | 1.02    |      | Rare 10  | 0.98    | 0.98    |      | Rare 10  | 1.12    | 1.12    |      | Rare 10  | 1.10    | 1.10    |
|      | Rare 11  | 1.00    | 1.00    |      | Rare 11  | 0.96    | 0.96    |      | Rare 11  | 1.10    | 1.10    |      | Rare 11  | 1.07    | 1.07    |
|      | Rare 12  | 1.03    | 1.03    |      | Rare 12  | 0.99    | 0.99    |      | Rare 12  | 1.12    | 1.12    |      | Rare 12  | 1.10    | 1.10    |
|      | Rare 13  | 1.01    | 1.01    |      | Rare 13  | 0.98    | 0.98    |      | Rare 13  | 1.11    | 1.11    |      | Rare 13  | 1.08    | 1.08    |
|      | Rare 14  | 0.99    | 0.99    |      | Rare 14  | 0.95    | 0.95    |      | Rare 14  | 1.08    | 1.08    |      | Rare 14  | 1.05    | 1.05    |
|      | Freq 1   | 0.97    | 0.97    |      | Freq 1   | 0.94    | 0.94    |      | Freq 1   | 1.07    | 1.07    |      | Freq 1   | 1.05    | 1.05    |
|      | Freq 2   | 0.98    | 0.98    |      | Freq 2   | 0.94    | 0.94    |      | Freq 2   | 1.07    | 1.07    |      | Freq 2   | 1.05    | 1.05    |
|      | Freq 3   | 0.97    | 0.97    |      | Freq 3   | 0.93    | 0.93    |      | Freq 3   | 1.06    | 1.06    |      | Freq 3   | 1.04    | 1.04    |
|      | Freq 4   | 0.97    | 0.97    |      | Freq 4   | 0.93    | 0.93    |      | Freq 4   | 1.06    | 1.06    |      | Freq 4   | 1.04    | 1.04    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 5   | 0.97    | 0.97    |      | Freq 5   | 0.93    | 0.93    |      | Freq 5   | 1.06    | 1.06    |      | Freq 5   | 1.04    | 1.04    |
|      | Freq 6   | 0.96    | 0.96    |      | Freq 6   | 0.93    | 0.93    |      | Freq 6   | 1.05    | 1.05    |      | Freq 6   | 1.03    | 1.03    |
|      | Perm 1   | 0.97    | 0.97    |      | Perm 1   | 0.93    | 0.93    |      | Perm 1   | 1.06    | 1.06    |      | Perm 1   | 1.04    | 1.04    |
|      | MAX.     | 1.04    | 1.04    |      | MAX.     | 1.01    | 1.01    |      | MAX.     | 1.14    | 1.14    |      | MAX.     | 1.12    | 1.12    |
| 17   | Rare 1   | 1.07    | 1.07    | 18   | Rare 1   | 0.73    | 0.73    | 19   | Rare 1   | 1.17    | 1.17    | 20   | Rare 1   | 0.85    | 0.85    |
|      | Rare 2   | 1.06    | 1.06    |      | Rare 2   | 0.73    | 0.73    |      | Rare 2   | 1.17    | 1.17    |      | Rare 2   | 0.85    | 0.85    |
|      | Rare 3   | 1.07    | 1.07    |      | Rare 3   | 0.74    | 0.74    |      | Rare 3   | 1.17    | 1.17    |      | Rare 3   | 0.85    | 0.85    |
|      | Rare 4   | 1.06    | 1.06    |      | Rare 4   | 0.73    | 0.73    |      | Rare 4   | 1.16    | 1.16    |      | Rare 4   | 0.85    | 0.85    |
|      | Rare 5   | 1.04    | 1.04    |      | Rare 5   | 0.72    | 0.72    |      | Rare 5   | 1.15    | 1.15    |      | Rare 5   | 0.84    | 0.84    |
|      | Rare 6   | 1.09    | 1.09    |      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 1.17    | 1.17    |      | Rare 6   | 0.86    | 0.86    |
|      | Rare 7   | 1.08    | 1.08    |      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 1.16    | 1.16    |      | Rare 7   | 0.86    | 0.86    |
|      | Rare 8   | 1.07    | 1.07    |      | Rare 8   | 0.76    | 0.76    |      | Rare 8   | 1.15    | 1.15    |      | Rare 8   | 0.86    | 0.86    |
|      | Rare 9   | 1.07    | 1.07    |      | Rare 9   | 0.73    | 0.73    |      | Rare 9   | 1.17    | 1.17    |      | Rare 9   | 0.86    | 0.86    |
|      | Rare 10  | 1.06    | 1.06    |      | Rare 10  | 0.73    | 0.73    |      | Rare 10  | 1.17    | 1.17    |      | Rare 10  | 0.85    | 0.85    |
|      | Rare 11  | 1.04    | 1.04    |      | Rare 11  | 0.71    | 0.71    |      | Rare 11  | 1.15    | 1.15    |      | Rare 11  | 0.84    | 0.84    |
|      | Rare 12  | 1.05    | 1.05    |      | Rare 12  | 0.71    | 0.71    |      | Rare 12  | 1.18    | 1.18    |      | Rare 12  | 0.85    | 0.85    |
|      | Rare 13  | 1.04    | 1.04    |      | Rare 13  | 0.70    | 0.70    |      | Rare 13  | 1.17    | 1.17    |      | Rare 13  | 0.84    | 0.84    |
|      | Rare 14  | 1.01    | 1.01    |      | Rare 14  | 0.67    | 0.67    |      | Rare 14  | 1.16    | 1.16    |      | Rare 14  | 0.83    | 0.83    |
|      | Freq 1   | 1.01    | 1.01    |      | Freq 1   | 0.70    | 0.70    |      | Freq 1   | 1.13    | 1.13    |      | Freq 1   | 0.83    | 0.83    |
|      | Freq 2   | 1.01    | 1.01    |      | Freq 2   | 0.70    | 0.70    |      | Freq 2   | 1.12    | 1.12    |      | Freq 2   | 0.82    | 0.82    |
|      | Freq 3   | 1.01    | 1.01    |      | Freq 3   | 0.70    | 0.70    |      | Freq 3   | 1.12    | 1.12    |      | Freq 3   | 0.81    | 0.81    |
|      | Freq 4   | 1.01    | 1.01    |      | Freq 4   | 0.70    | 0.70    |      | Freq 4   | 1.11    | 1.11    |      | Freq 4   | 0.82    | 0.82    |
|      | Freq 5   | 1.01    | 1.01    |      | Freq 5   | 0.69    | 0.69    |      | Freq 5   | 1.12    | 1.12    |      | Freq 5   | 0.81    | 0.81    |
|      | Freq 6   | 1.00    | 1.00    |      | Freq 6   | 0.69    | 0.69    |      | Freq 6   | 1.12    | 1.12    |      | Freq 6   | 0.81    | 0.81    |
|      | Perm 1   | 1.01    | 1.01    |      | Perm 1   | 0.69    | 0.69    |      | Perm 1   | 1.12    | 1.12    |      | Perm 1   | 0.81    | 0.81    |
|      | MAX.     | 1.09    | 1.09    |      | MAX.     | 0.76    | 0.76    |      | MAX.     | 1.18    | 1.18    |      | MAX.     | 0.86    | 0.86    |
| 21   | Rare 1   | 1.18    | 1.18    | 22   | Rare 1   | 0.88    | 0.88    | 23   | Rare 1   | 0.88    | 0.88    | 24   | Rare 1   | 1.01    | 1.01    |
|      | Rare 2   | 1.17    | 1.17    |      | Rare 2   | 0.87    | 0.87    |      | Rare 2   | 0.87    | 0.87    |      | Rare 2   | 1.01    | 1.01    |
|      | Rare 3   | 1.18    | 1.18    |      | Rare 3   | 0.88    | 0.88    |      | Rare 3   | 0.88    | 0.88    |      | Rare 3   | 1.01    | 1.01    |
|      | Rare 4   | 1.17    | 1.17    |      | Rare 4   | 0.87    | 0.87    |      | Rare 4   | 0.87    | 0.87    |      | Rare 4   | 1.01    | 1.01    |
|      | Rare 5   | 1.16    | 1.16    |      | Rare 5   | 0.86    | 0.86    |      | Rare 5   | 0.87    | 0.87    |      | Rare 5   | 1.00    | 1.00    |
|      | Rare 6   | 1.18    | 1.18    |      | Rare 6   | 0.88    | 0.88    |      | Rare 6   | 0.88    | 0.88    |      | Rare 6   | 1.01    | 1.01    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 7   | 1.17    | 1.17    |      | Rare 7   | 0.88    | 0.88    |      | Rare 7   | 0.88    | 0.88    |      | Rare 7   | 1.01    | 1.01    |
|      | Rare 8   | 1.15    | 1.15    |      | Rare 8   | 0.88    | 0.88    |      | Rare 8   | 0.88    | 0.88    |      | Rare 8   | 1.00    | 1.00    |
|      | Rare 9   | 1.18    | 1.18    |      | Rare 9   | 0.87    | 0.87    |      | Rare 9   | 0.88    | 0.88    |      | Rare 9   | 1.01    | 1.01    |
|      | Rare 10  | 1.17    | 1.17    |      | Rare 10  | 0.87    | 0.87    |      | Rare 10  | 0.87    | 0.87    |      | Rare 10  | 1.01    | 1.01    |
|      | Rare 11  | 1.16    | 1.16    |      | Rare 11  | 0.86    | 0.86    |      | Rare 11  | 0.87    | 0.87    |      | Rare 11  | 1.00    | 1.00    |
|      | Rare 12  | 1.18    | 1.18    |      | Rare 12  | 0.87    | 0.87    |      | Rare 12  | 0.87    | 0.87    |      | Rare 12  | 1.01    | 1.01    |
|      | Rare 13  | 1.18    | 1.18    |      | Rare 13  | 0.86    | 0.86    |      | Rare 13  | 0.87    | 0.87    |      | Rare 13  | 1.01    | 1.01    |
|      | Rare 14  | 1.16    | 1.16    |      | Rare 14  | 0.85    | 0.85    |      | Rare 14  | 0.86    | 0.86    |      | Rare 14  | 1.01    | 1.01    |
|      | Freq 1   | 1.13    | 1.13    |      | Freq 1   | 0.84    | 0.84    |      | Freq 1   | 0.85    | 0.85    |      | Freq 1   | 0.98    | 0.98    |
|      | Freq 2   | 1.13    | 1.13    |      | Freq 2   | 0.84    | 0.84    |      | Freq 2   | 0.84    | 0.84    |      | Freq 2   | 0.96    | 0.96    |
|      | Freq 3   | 1.12    | 1.12    |      | Freq 3   | 0.83    | 0.83    |      | Freq 3   | 0.84    | 0.84    |      | Freq 3   | 0.96    | 0.96    |
|      | Freq 4   | 1.12    | 1.12    |      | Freq 4   | 0.84    | 0.84    |      | Freq 4   | 0.84    | 0.84    |      | Freq 4   | 0.96    | 0.96    |
|      | Freq 5   | 1.12    | 1.12    |      | Freq 5   | 0.83    | 0.83    |      | Freq 5   | 0.84    | 0.84    |      | Freq 5   | 0.96    | 0.96    |
|      | Freq 6   | 1.12    | 1.12    |      | Freq 6   | 0.83    | 0.83    |      | Freq 6   | 0.83    | 0.83    |      | Freq 6   | 0.96    | 0.96    |
|      | Perm 1   | 1.12    | 1.12    |      | Perm 1   | 0.83    | 0.83    |      | Perm 1   | 0.84    | 0.84    |      | Perm 1   | 0.96    | 0.96    |
|      | MAX.     | 1.18    | 1.18    |      | MAX.     | 0.88    | 0.88    |      | MAX.     | 0.88    | 0.88    |      | MAX.     | 1.01    | 1.01    |
| 25   | Rare 1   | 0.97    | 0.97    | 26   | Rare 1   | 0.44    | 0.44    | 30   | Rare 1   | 0.45    | 0.45    | 31   | Rare 1   | 0.45    | 0.45    |
|      | Rare 2   | 0.96    | 0.96    |      | Rare 2   | 0.44    | 0.44    |      | Rare 2   | 0.45    | 0.45    |      | Rare 2   | 0.45    | 0.45    |
|      | Rare 3   | 0.97    | 0.97    |      | Rare 3   | 0.44    | 0.44    |      | Rare 3   | 0.45    | 0.45    |      | Rare 3   | 0.45    | 0.45    |
|      | Rare 4   | 0.96    | 0.96    |      | Rare 4   | 0.44    | 0.44    |      | Rare 4   | 0.45    | 0.45    |      | Rare 4   | 0.45    | 0.45    |
|      | Rare 5   | 0.95    | 0.95    |      | Rare 5   | 0.44    | 0.44    |      | Rare 5   | 0.45    | 0.45    |      | Rare 5   | 0.45    | 0.45    |
|      | Rare 6   | 0.97    | 0.97    |      | Rare 6   | 0.44    | 0.44    |      | Rare 6   | 0.45    | 0.45    |      | Rare 6   | 0.45    | 0.45    |
|      | Rare 7   | 0.96    | 0.96    |      | Rare 7   | 0.44    | 0.44    |      | Rare 7   | 0.45    | 0.45    |      | Rare 7   | 0.45    | 0.45    |
|      | Rare 8   | 0.95    | 0.95    |      | Rare 8   | 0.44    | 0.44    |      | Rare 8   | 0.46    | 0.46    |      | Rare 8   | 0.45    | 0.45    |
|      | Rare 9   | 0.97    | 0.97    |      | Rare 9   | 0.44    | 0.44    |      | Rare 9   | 0.45    | 0.45    |      | Rare 9   | 0.45    | 0.45    |
|      | Rare 10  | 0.97    | 0.97    |      | Rare 10  | 0.44    | 0.44    |      | Rare 10  | 0.45    | 0.45    |      | Rare 10  | 0.45    | 0.45    |
|      | Rare 11  | 0.96    | 0.96    |      | Rare 11  | 0.44    | 0.44    |      | Rare 11  | 0.45    | 0.45    |      | Rare 11  | 0.45    | 0.45    |
|      | Rare 12  | 0.97    | 0.97    |      | Rare 12  | 0.44    | 0.44    |      | Rare 12  | 0.45    | 0.45    |      | Rare 12  | 0.45    | 0.45    |
|      | Rare 13  | 0.97    | 0.97    |      | Rare 13  | 0.44    | 0.44    |      | Rare 13  | 0.45    | 0.45    |      | Rare 13  | 0.45    | 0.45    |
|      | Rare 14  | 0.96    | 0.96    |      | Rare 14  | 0.44    | 0.44    |      | Rare 14  | 0.45    | 0.45    |      | Rare 14  | 0.45    | 0.45    |
|      | Freq 1   | 0.93    | 0.93    |      | Freq 1   | 0.43    | 0.43    |      | Freq 1   | 0.45    | 0.45    |      | Freq 1   | 0.44    | 0.44    |
|      | Freq 2   | 0.93    | 0.93    |      | Freq 2   | 0.42    | 0.42    |      | Freq 2   | 0.43    | 0.43    |      | Freq 2   | 0.43    | 0.43    |
|      | Freq 3   | 0.93    | 0.93    |      | Freq 3   | 0.42    | 0.42    |      | Freq 3   | 0.44    | 0.44    |      | Freq 3   | 0.43    | 0.43    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 4   | 0.93    | 0.93    |      | Freq 4   | 0.42    | 0.42    |      | Freq 4   | 0.44    | 0.44    |      | Freq 4   | 0.43    | 0.43    |
|      | Freq 5   | 0.93    | 0.93    |      | Freq 5   | 0.42    | 0.42    |      | Freq 5   | 0.44    | 0.44    |      | Freq 5   | 0.43    | 0.43    |
|      | Freq 6   | 0.93    | 0.93    |      | Freq 6   | 0.42    | 0.42    |      | Freq 6   | 0.43    | 0.43    |      | Freq 6   | 0.43    | 0.43    |
|      | Perm 1   | 0.93    | 0.93    |      | Perm 1   | 0.42    | 0.42    |      | Perm 1   | 0.44    | 0.44    |      | Perm 1   | 0.43    | 0.43    |
|      | MAX.     | 0.97    | 0.97    |      | MAX.     | 0.44    | 0.44    |      | MAX.     | 0.46    | 0.46    |      | MAX.     | 0.45    | 0.45    |
| 32   | Rare 1   | 0.42    | 0.42    | 33   | Rare 1   | 0.96    | 0.96    | 34   | Rare 1   | 1.31    | 1.31    | 35   | Rare 1   | 1.33    | 1.33    |
|      | Rare 2   | 0.42    | 0.42    |      | Rare 2   | 0.95    | 0.95    |      | Rare 2   | 1.29    | 1.29    |      | Rare 2   | 1.31    | 1.31    |
|      | Rare 3   | 0.42    | 0.42    |      | Rare 3   | 0.96    | 0.96    |      | Rare 3   | 1.31    | 1.31    |      | Rare 3   | 1.33    | 1.33    |
|      | Rare 4   | 0.42    | 0.42    |      | Rare 4   | 0.95    | 0.95    |      | Rare 4   | 1.29    | 1.29    |      | Rare 4   | 1.31    | 1.31    |
|      | Rare 5   | 0.43    | 0.43    |      | Rare 5   | 0.94    | 0.94    |      | Rare 5   | 1.27    | 1.27    |      | Rare 5   | 1.29    | 1.29    |
|      | Rare 6   | 0.42    | 0.42    |      | Rare 6   | 0.96    | 0.96    |      | Rare 6   | 1.28    | 1.28    |      | Rare 6   | 1.30    | 1.30    |
|      | Rare 7   | 0.42    | 0.42    |      | Rare 7   | 0.95    | 0.95    |      | Rare 7   | 1.27    | 1.27    |      | Rare 7   | 1.29    | 1.29    |
|      | Rare 8   | 0.43    | 0.43    |      | Rare 8   | 0.93    | 0.93    |      | Rare 8   | 1.23    | 1.23    |      | Rare 8   | 1.25    | 1.25    |
|      | Rare 9   | 0.42    | 0.42    |      | Rare 9   | 0.95    | 0.95    |      | Rare 9   | 1.31    | 1.31    |      | Rare 9   | 1.33    | 1.33    |
|      | Rare 10  | 0.42    | 0.42    |      | Rare 10  | 0.95    | 0.95    |      | Rare 10  | 1.29    | 1.29    |      | Rare 10  | 1.31    | 1.31    |
|      | Rare 11  | 0.43    | 0.43    |      | Rare 11  | 0.93    | 0.93    |      | Rare 11  | 1.27    | 1.27    |      | Rare 11  | 1.29    | 1.29    |
|      | Rare 12  | 0.42    | 0.42    |      | Rare 12  | 0.96    | 0.96    |      | Rare 12  | 1.34    | 1.34    |      | Rare 12  | 1.35    | 1.35    |
|      | Rare 13  | 0.42    | 0.42    |      | Rare 13  | 0.95    | 0.95    |      | Rare 13  | 1.32    | 1.32    |      | Rare 13  | 1.34    | 1.34    |
|      | Rare 14  | 0.43    | 0.43    |      | Rare 14  | 0.93    | 0.93    |      | Rare 14  | 1.32    | 1.32    |      | Rare 14  | 1.34    | 1.34    |
|      | Freq 1   | 0.42    | 0.42    |      | Freq 1   | 0.92    | 0.92    |      | Freq 1   | 1.24    | 1.24    |      | Freq 1   | 1.26    | 1.26    |
|      | Freq 2   | 0.41    | 0.41    |      | Freq 2   | 0.91    | 0.91    |      | Freq 2   | 1.24    | 1.24    |      | Freq 2   | 1.26    | 1.26    |
|      | Freq 3   | 0.41    | 0.41    |      | Freq 3   | 0.91    | 0.91    |      | Freq 3   | 1.24    | 1.24    |      | Freq 3   | 1.25    | 1.25    |
|      | Freq 4   | 0.41    | 0.41    |      | Freq 4   | 0.91    | 0.91    |      | Freq 4   | 1.23    | 1.23    |      | Freq 4   | 1.24    | 1.24    |
|      | Freq 5   | 0.41    | 0.41    |      | Freq 5   | 0.91    | 0.91    |      | Freq 5   | 1.24    | 1.24    |      | Freq 5   | 1.25    | 1.25    |
|      | Freq 6   | 0.41    | 0.41    |      | Freq 6   | 0.91    | 0.91    |      | Freq 6   | 1.24    | 1.24    |      | Freq 6   | 1.26    | 1.26    |
|      | Perm 1   | 0.41    | 0.41    |      | Perm 1   | 0.91    | 0.91    |      | Perm 1   | 1.24    | 1.24    |      | Perm 1   | 1.25    | 1.25    |
|      | MAX.     | 0.43    | 0.43    |      | MAX.     | 0.96    | 0.96    |      | MAX.     | 1.34    | 1.34    |      | MAX.     | 1.35    | 1.35    |
| 36   | Rare 1   | 1.31    | 1.31    | 37   | Rare 1   | 0.78    | 0.78    | 38   | Rare 1   | 0.78    | 0.78    | 39   | Rare 1   | 0.86    | 0.86    |
|      | Rare 2   | 1.30    | 1.30    |      | Rare 2   | 0.78    | 0.78    |      | Rare 2   | 0.78    | 0.78    |      | Rare 2   | 0.86    | 0.86    |
|      | Rare 3   | 1.31    | 1.31    |      | Rare 3   | 0.78    | 0.78    |      | Rare 3   | 0.78    | 0.78    |      | Rare 3   | 0.86    | 0.86    |
|      | Rare 4   | 1.30    | 1.30    |      | Rare 4   | 0.78    | 0.78    |      | Rare 4   | 0.78    | 0.78    |      | Rare 4   | 0.86    | 0.86    |
|      | Rare 5   | 1.28    | 1.28    |      | Rare 5   | 0.77    | 0.77    |      | Rare 5   | 0.77    | 0.77    |      | Rare 5   | 0.85    | 0.85    |



**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 6   | 1.29    | 1.29    |      | Rare 6   | 0.78    | 0.78    |      | Rare 6   | 0.77    | 0.77    |      | Rare 6   | 0.86    | 0.86    |
|      | Rare 7   | 1.27    | 1.27    |      | Rare 7   | 0.77    | 0.77    |      | Rare 7   | 0.77    | 0.77    |      | Rare 7   | 0.85    | 0.85    |
|      | Rare 8   | 1.23    | 1.23    |      | Rare 8   | 0.76    | 0.76    |      | Rare 8   | 0.76    | 0.76    |      | Rare 8   | 0.84    | 0.84    |
|      | Rare 9   | 1.31    | 1.31    |      | Rare 9   | 0.78    | 0.78    |      | Rare 9   | 0.78    | 0.78    |      | Rare 9   | 0.86    | 0.86    |
|      | Rare 10  | 1.30    | 1.30    |      | Rare 10  | 0.78    | 0.78    |      | Rare 10  | 0.78    | 0.78    |      | Rare 10  | 0.86    | 0.86    |
|      | Rare 11  | 1.28    | 1.28    |      | Rare 11  | 0.77    | 0.77    |      | Rare 11  | 0.77    | 0.77    |      | Rare 11  | 0.85    | 0.85    |
|      | Rare 12  | 1.34    | 1.34    |      | Rare 12  | 0.79    | 0.79    |      | Rare 12  | 0.79    | 0.79    |      | Rare 12  | 0.87    | 0.87    |
|      | Rare 13  | 1.33    | 1.33    |      | Rare 13  | 0.79    | 0.79    |      | Rare 13  | 0.78    | 0.78    |      | Rare 13  | 0.86    | 0.86    |
|      | Rare 14  | 1.33    | 1.33    |      | Rare 14  | 0.78    | 0.78    |      | Rare 14  | 0.78    | 0.78    |      | Rare 14  | 0.86    | 0.86    |
|      | Freq 1   | 1.25    | 1.25    |      | Freq 1   | 0.75    | 0.75    |      | Freq 1   | 0.75    | 0.75    |      | Freq 1   | 0.83    | 0.83    |
|      | Freq 2   | 1.25    | 1.25    |      | Freq 2   | 0.75    | 0.75    |      | Freq 2   | 0.74    | 0.74    |      | Freq 2   | 0.82    | 0.82    |
|      | Freq 3   | 1.24    | 1.24    |      | Freq 3   | 0.74    | 0.74    |      | Freq 3   | 0.74    | 0.74    |      | Freq 3   | 0.82    | 0.82    |
|      | Freq 4   | 1.23    | 1.23    |      | Freq 4   | 0.74    | 0.74    |      | Freq 4   | 0.74    | 0.74    |      | Freq 4   | 0.82    | 0.82    |
|      | Freq 5   | 1.24    | 1.24    |      | Freq 5   | 0.74    | 0.74    |      | Freq 5   | 0.74    | 0.74    |      | Freq 5   | 0.82    | 0.82    |
|      | Freq 6   | 1.25    | 1.25    |      | Freq 6   | 0.75    | 0.75    |      | Freq 6   | 0.74    | 0.74    |      | Freq 6   | 0.82    | 0.82    |
|      | Perm 1   | 1.24    | 1.24    |      | Perm 1   | 0.74    | 0.74    |      | Perm 1   | 0.74    | 0.74    |      | Perm 1   | 0.82    | 0.82    |
|      | MAX.     | 1.34    | 1.34    |      | MAX.     | 0.79    | 0.79    |      | MAX.     | 0.79    | 0.79    |      | MAX.     | 0.87    | 0.87    |
| 40   | Rare 1   | 1.00    | 1.00    | 41   | Rare 1   | 0.49    | 0.49    | 42   | Rare 1   | 0.61    | 0.61    | 43   | Rare 1   | 0.78    | 0.78    |
|      | Rare 2   | 0.99    | 0.99    |      | Rare 2   | 0.49    | 0.49    |      | Rare 2   | 0.61    | 0.61    |      | Rare 2   | 0.78    | 0.78    |
|      | Rare 3   | 1.00    | 1.00    |      | Rare 3   | 0.49    | 0.49    |      | Rare 3   | 0.61    | 0.61    |      | Rare 3   | 0.78    | 0.78    |
|      | Rare 4   | 0.99    | 0.99    |      | Rare 4   | 0.49    | 0.49    |      | Rare 4   | 0.61    | 0.61    |      | Rare 4   | 0.78    | 0.78    |
|      | Rare 5   | 0.98    | 0.98    |      | Rare 5   | 0.49    | 0.49    |      | Rare 5   | 0.60    | 0.60    |      | Rare 5   | 0.77    | 0.77    |
|      | Rare 6   | 1.00    | 1.00    |      | Rare 6   | 0.49    | 0.49    |      | Rare 6   | 0.61    | 0.61    |      | Rare 6   | 0.79    | 0.79    |
|      | Rare 7   | 0.99    | 0.99    |      | Rare 7   | 0.49    | 0.49    |      | Rare 7   | 0.61    | 0.61    |      | Rare 7   | 0.78    | 0.78    |
|      | Rare 8   | 0.98    | 0.98    |      | Rare 8   | 0.49    | 0.49    |      | Rare 8   | 0.61    | 0.61    |      | Rare 8   | 0.78    | 0.78    |
|      | Rare 9   | 1.00    | 1.00    |      | Rare 9   | 0.49    | 0.49    |      | Rare 9   | 0.61    | 0.61    |      | Rare 9   | 0.78    | 0.78    |
|      | Rare 10  | 1.00    | 1.00    |      | Rare 10  | 0.49    | 0.49    |      | Rare 10  | 0.61    | 0.61    |      | Rare 10  | 0.78    | 0.78    |
|      | Rare 11  | 0.99    | 0.99    |      | Rare 11  | 0.49    | 0.49    |      | Rare 11  | 0.61    | 0.61    |      | Rare 11  | 0.77    | 0.77    |
|      | Rare 12  | 1.01    | 1.01    |      | Rare 12  | 0.49    | 0.49    |      | Rare 12  | 0.60    | 0.60    |      | Rare 12  | 0.77    | 0.77    |
|      | Rare 13  | 1.00    | 1.00    |      | Rare 13  | 0.49    | 0.49    |      | Rare 13  | 0.60    | 0.60    |      | Rare 13  | 0.77    | 0.77    |
|      | Rare 14  | 0.99    | 0.99    |      | Rare 14  | 0.48    | 0.48    |      | Rare 14  | 0.60    | 0.60    |      | Rare 14  | 0.76    | 0.76    |
|      | Freq 1   | 0.96    | 0.96    |      | Freq 1   | 0.48    | 0.48    |      | Freq 1   | 0.59    | 0.59    |      | Freq 1   | 0.76    | 0.76    |
|      | Freq 2   | 0.96    | 0.96    |      | Freq 2   | 0.47    | 0.47    |      | Freq 2   | 0.58    | 0.58    |      | Freq 2   | 0.75    | 0.75    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 3   | 0.95    | 0.95    |      | Freq 3   | 0.47    | 0.47    |      | Freq 3   | 0.58    | 0.58    |      | Freq 3   | 0.74    | 0.74    |
|      | Freq 4   | 0.95    | 0.95    |      | Freq 4   | 0.47    | 0.47    |      | Freq 4   | 0.58    | 0.58    |      | Freq 4   | 0.75    | 0.75    |
|      | Freq 5   | 0.95    | 0.95    |      | Freq 5   | 0.47    | 0.47    |      | Freq 5   | 0.58    | 0.58    |      | Freq 5   | 0.74    | 0.74    |
|      | Freq 6   | 0.95    | 0.95    |      | Freq 6   | 0.47    | 0.47    |      | Freq 6   | 0.58    | 0.58    |      | Freq 6   | 0.74    | 0.74    |
|      | Perm 1   | 0.95    | 0.95    |      | Perm 1   | 0.47    | 0.47    |      | Perm 1   | 0.58    | 0.58    |      | Perm 1   | 0.74    | 0.74    |
|      | MAX.     | 1.01    | 1.01    |      | MAX.     | 0.49    | 0.49    |      | MAX.     | 0.61    | 0.61    |      | MAX.     | 0.79    | 0.79    |
| 44   | Rare 1   | 0.74    | 0.74    | 45   | Rare 1   | 0.76    | 0.76    | 46   | Rare 1   | 0.79    | 0.79    | 47   | Rare 1   | 0.85    | 0.85    |
|      | Rare 2   | 0.74    | 0.74    |      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.79    | 0.79    |      | Rare 2   | 0.85    | 0.85    |
|      | Rare 3   | 0.74    | 0.74    |      | Rare 3   | 0.76    | 0.76    |      | Rare 3   | 0.79    | 0.79    |      | Rare 3   | 0.85    | 0.85    |
|      | Rare 4   | 0.74    | 0.74    |      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.79    | 0.79    |      | Rare 4   | 0.85    | 0.85    |
|      | Rare 5   | 0.73    | 0.73    |      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.78    | 0.78    |      | Rare 5   | 0.84    | 0.84    |
|      | Rare 6   | 0.74    | 0.74    |      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 0.80    | 0.80    |      | Rare 6   | 0.86    | 0.86    |
|      | Rare 7   | 0.74    | 0.74    |      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 0.79    | 0.79    |      | Rare 7   | 0.85    | 0.85    |
|      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.75    | 0.75    |      | Rare 8   | 0.79    | 0.79    |      | Rare 8   | 0.85    | 0.85    |
|      | Rare 9   | 0.74    | 0.74    |      | Rare 9   | 0.76    | 0.76    |      | Rare 9   | 0.79    | 0.79    |      | Rare 9   | 0.85    | 0.85    |
|      | Rare 10  | 0.74    | 0.74    |      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.79    | 0.79    |      | Rare 10  | 0.85    | 0.85    |
|      | Rare 11  | 0.73    | 0.73    |      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.78    | 0.78    |      | Rare 11  | 0.84    | 0.84    |
|      | Rare 12  | 0.74    | 0.74    |      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.79    | 0.79    |      | Rare 12  | 0.84    | 0.84    |
|      | Rare 13  | 0.73    | 0.73    |      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.78    | 0.78    |      | Rare 13  | 0.84    | 0.84    |
|      | Rare 14  | 0.72    | 0.72    |      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.77    | 0.77    |      | Rare 14  | 0.82    | 0.82    |
|      | Freq 1   | 0.71    | 0.71    |      | Freq 1   | 0.73    | 0.73    |      | Freq 1   | 0.76    | 0.76    |      | Freq 1   | 0.82    | 0.82    |
|      | Freq 2   | 0.70    | 0.70    |      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.75    | 0.75    |      | Freq 2   | 0.81    | 0.81    |
|      | Freq 3   | 0.70    | 0.70    |      | Freq 3   | 0.72    | 0.72    |      | Freq 3   | 0.75    | 0.75    |      | Freq 3   | 0.81    | 0.81    |
|      | Freq 4   | 0.70    | 0.70    |      | Freq 4   | 0.72    | 0.72    |      | Freq 4   | 0.75    | 0.75    |      | Freq 4   | 0.81    | 0.81    |
|      | Freq 5   | 0.70    | 0.70    |      | Freq 5   | 0.72    | 0.72    |      | Freq 5   | 0.75    | 0.75    |      | Freq 5   | 0.81    | 0.81    |
|      | Freq 6   | 0.70    | 0.70    |      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.75    | 0.75    |      | Freq 6   | 0.80    | 0.80    |
|      | Perm 1   | 0.70    | 0.70    |      | Perm 1   | 0.72    | 0.72    |      | Perm 1   | 0.75    | 0.75    |      | Perm 1   | 0.81    | 0.81    |
|      | MAX.     | 0.74    | 0.74    |      | MAX.     | 0.76    | 0.76    |      | MAX.     | 0.80    | 0.80    |      | MAX.     | 0.86    | 0.86    |
| 48   | Rare 1   | 1.07    | 1.07    | 49   | Rare 1   | 1.08    | 1.08    | 50   | Rare 1   | 1.10    | 1.10    | 51   | Rare 1   | 0.87    | 0.87    |
|      | Rare 2   | 1.06    | 1.06    |      | Rare 2   | 1.06    | 1.06    |      | Rare 2   | 1.09    | 1.09    |      | Rare 2   | 0.86    | 0.86    |
|      | Rare 3   | 1.07    | 1.07    |      | Rare 3   | 1.08    | 1.08    |      | Rare 3   | 1.10    | 1.10    |      | Rare 3   | 0.87    | 0.87    |
|      | Rare 4   | 1.06    | 1.06    |      | Rare 4   | 1.06    | 1.06    |      | Rare 4   | 1.09    | 1.09    |      | Rare 4   | 0.86    | 0.86    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 5   | 1.04    | 1.04    |      | Rare 5   | 1.04    | 1.04    |      | Rare 5   | 1.06    | 1.06    |      | Rare 5   | 0.85    | 0.85    |
|      | Rare 6   | 1.09    | 1.09    |      | Rare 6   | 1.09    | 1.09    |      | Rare 6   | 1.11    | 1.11    |      | Rare 6   | 0.88    | 0.88    |
|      | Rare 7   | 1.08    | 1.08    |      | Rare 7   | 1.08    | 1.08    |      | Rare 7   | 1.10    | 1.10    |      | Rare 7   | 0.87    | 0.87    |
|      | Rare 8   | 1.07    | 1.07    |      | Rare 8   | 1.07    | 1.07    |      | Rare 8   | 1.09    | 1.09    |      | Rare 8   | 0.87    | 0.87    |
|      | Rare 9   | 1.07    | 1.07    |      | Rare 9   | 1.08    | 1.08    |      | Rare 9   | 1.10    | 1.10    |      | Rare 9   | 0.87    | 0.87    |
|      | Rare 10  | 1.06    | 1.06    |      | Rare 10  | 1.07    | 1.07    |      | Rare 10  | 1.09    | 1.09    |      | Rare 10  | 0.86    | 0.86    |
|      | Rare 11  | 1.04    | 1.04    |      | Rare 11  | 1.05    | 1.05    |      | Rare 11  | 1.07    | 1.07    |      | Rare 11  | 0.86    | 0.86    |
|      | Rare 12  | 1.05    | 1.05    |      | Rare 12  | 1.06    | 1.06    |      | Rare 12  | 1.08    | 1.08    |      | Rare 12  | 0.86    | 0.86    |
|      | Rare 13  | 1.04    | 1.04    |      | Rare 13  | 1.05    | 1.05    |      | Rare 13  | 1.07    | 1.07    |      | Rare 13  | 0.86    | 0.86    |
|      | Rare 14  | 1.01    | 1.01    |      | Rare 14  | 1.02    | 1.02    |      | Rare 14  | 1.04    | 1.04    |      | Rare 14  | 0.84    | 0.84    |
|      | Freq 1   | 1.01    | 1.01    |      | Freq 1   | 1.02    | 1.02    |      | Freq 1   | 1.04    | 1.04    |      | Freq 1   | 0.83    | 0.83    |
|      | Freq 2   | 1.01    | 1.01    |      | Freq 2   | 1.02    | 1.02    |      | Freq 2   | 1.04    | 1.04    |      | Freq 2   | 0.83    | 0.83    |
|      | Freq 3   | 1.01    | 1.01    |      | Freq 3   | 1.01    | 1.01    |      | Freq 3   | 1.03    | 1.03    |      | Freq 3   | 0.82    | 0.82    |
|      | Freq 4   | 1.01    | 1.01    |      | Freq 4   | 1.02    | 1.02    |      | Freq 4   | 1.03    | 1.03    |      | Freq 4   | 0.83    | 0.83    |
|      | Freq 5   | 1.01    | 1.01    |      | Freq 5   | 1.01    | 1.01    |      | Freq 5   | 1.03    | 1.03    |      | Freq 5   | 0.82    | 0.82    |
|      | Freq 6   | 1.00    | 1.00    |      | Freq 6   | 1.00    | 1.00    |      | Freq 6   | 1.02    | 1.02    |      | Freq 6   | 0.82    | 0.82    |
|      | Perm 1   | 1.01    | 1.01    |      | Perm 1   | 1.01    | 1.01    |      | Perm 1   | 1.03    | 1.03    |      | Perm 1   | 0.82    | 0.82    |
|      | MAX.     | 1.09    | 1.09    |      | MAX.     | 1.09    | 1.09    |      | MAX.     | 1.11    | 1.11    |      | MAX.     | 0.88    | 0.88    |
| 52   | Rare 1   | 0.77    | 0.77    | 53   | Rare 1   | 0.72    | 0.72    | 54   | Rare 1   | 0.71    | 0.71    | 55   | Rare 1   | 0.75    | 0.75    |
|      | Rare 2   | 0.77    | 0.77    |      | Rare 2   | 0.72    | 0.72    |      | Rare 2   | 0.71    | 0.71    |      | Rare 2   | 0.75    | 0.75    |
|      | Rare 3   | 0.77    | 0.77    |      | Rare 3   | 0.72    | 0.72    |      | Rare 3   | 0.71    | 0.71    |      | Rare 3   | 0.75    | 0.75    |
|      | Rare 4   | 0.76    | 0.76    |      | Rare 4   | 0.72    | 0.72    |      | Rare 4   | 0.71    | 0.71    |      | Rare 4   | 0.75    | 0.75    |
|      | Rare 5   | 0.76    | 0.76    |      | Rare 5   | 0.72    | 0.72    |      | Rare 5   | 0.70    | 0.70    |      | Rare 5   | 0.74    | 0.74    |
|      | Rare 6   | 0.78    | 0.78    |      | Rare 6   | 0.73    | 0.73    |      | Rare 6   | 0.72    | 0.72    |      | Rare 6   | 0.76    | 0.76    |
|      | Rare 7   | 0.77    | 0.77    |      | Rare 7   | 0.73    | 0.73    |      | Rare 7   | 0.71    | 0.71    |      | Rare 7   | 0.76    | 0.76    |
|      | Rare 8   | 0.78    | 0.78    |      | Rare 8   | 0.73    | 0.73    |      | Rare 8   | 0.71    | 0.71    |      | Rare 8   | 0.76    | 0.76    |
|      | Rare 9   | 0.77    | 0.77    |      | Rare 9   | 0.72    | 0.72    |      | Rare 9   | 0.71    | 0.71    |      | Rare 9   | 0.75    | 0.75    |
|      | Rare 10  | 0.77    | 0.77    |      | Rare 10  | 0.72    | 0.72    |      | Rare 10  | 0.71    | 0.71    |      | Rare 10  | 0.75    | 0.75    |
|      | Rare 11  | 0.76    | 0.76    |      | Rare 11  | 0.72    | 0.72    |      | Rare 11  | 0.70    | 0.70    |      | Rare 11  | 0.74    | 0.74    |
|      | Rare 12  | 0.76    | 0.76    |      | Rare 12  | 0.72    | 0.72    |      | Rare 12  | 0.70    | 0.70    |      | Rare 12  | 0.74    | 0.74    |
|      | Rare 13  | 0.76    | 0.76    |      | Rare 13  | 0.71    | 0.71    |      | Rare 13  | 0.70    | 0.70    |      | Rare 13  | 0.73    | 0.73    |
|      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.70    | 0.70    |      | Rare 14  | 0.69    | 0.69    |      | Rare 14  | 0.72    | 0.72    |
|      | Freq 1   | 0.75    | 0.75    |      | Freq 1   | 0.70    | 0.70    |      | Freq 1   | 0.69    | 0.69    |      | Freq 1   | 0.72    | 0.72    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 2   | 0.74    | 0.74    |      | Freq 2   | 0.69    | 0.69    |      | Freq 2   | 0.68    | 0.68    |      | Freq 2   | 0.72    | 0.72    |
|      | Freq 3   | 0.73    | 0.73    |      | Freq 3   | 0.69    | 0.69    |      | Freq 3   | 0.68    | 0.68    |      | Freq 3   | 0.71    | 0.71    |
|      | Freq 4   | 0.74    | 0.74    |      | Freq 4   | 0.69    | 0.69    |      | Freq 4   | 0.68    | 0.68    |      | Freq 4   | 0.72    | 0.72    |
|      | Freq 5   | 0.73    | 0.73    |      | Freq 5   | 0.69    | 0.69    |      | Freq 5   | 0.68    | 0.68    |      | Freq 5   | 0.71    | 0.71    |
|      | Freq 6   | 0.73    | 0.73    |      | Freq 6   | 0.69    | 0.69    |      | Freq 6   | 0.67    | 0.67    |      | Freq 6   | 0.71    | 0.71    |
|      | Perm 1   | 0.73    | 0.73    |      | Perm 1   | 0.69    | 0.69    |      | Perm 1   | 0.68    | 0.68    |      | Perm 1   | 0.71    | 0.71    |
|      | MAX.     | 0.78    | 0.78    |      | MAX.     | 0.73    | 0.73    |      | MAX.     | 0.72    | 0.72    |      | MAX.     | 0.76    | 0.76    |
| 56   | Rare 1   | 0.76    | 0.76    | 57   | Rare 1   | 0.73    | 0.73    | 58   | Rare 1   | 0.73    | 0.73    | 59   | Rare 1   | 0.73    | 0.73    |
|      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.73    | 0.73    |      | Rare 2   | 0.73    | 0.73    |      | Rare 2   | 0.73    | 0.73    |
|      | Rare 3   | 0.76    | 0.76    |      | Rare 3   | 0.73    | 0.73    |      | Rare 3   | 0.73    | 0.73    |      | Rare 3   | 0.73    | 0.73    |
|      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.73    | 0.73    |      | Rare 4   | 0.73    | 0.73    |      | Rare 4   | 0.73    | 0.73    |
|      | Rare 5   | 0.75    | 0.75    |      | Rare 5   | 0.72    | 0.72    |      | Rare 5   | 0.72    | 0.72    |      | Rare 5   | 0.72    | 0.72    |
|      | Rare 6   | 0.77    | 0.77    |      | Rare 6   | 0.74    | 0.74    |      | Rare 6   | 0.74    | 0.74    |      | Rare 6   | 0.74    | 0.74    |
|      | Rare 7   | 0.77    | 0.77    |      | Rare 7   | 0.74    | 0.74    |      | Rare 7   | 0.74    | 0.74    |      | Rare 7   | 0.74    | 0.74    |
|      | Rare 8   | 0.77    | 0.77    |      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.74    | 0.74    |
|      | Rare 9   | 0.76    | 0.76    |      | Rare 9   | 0.73    | 0.73    |      | Rare 9   | 0.73    | 0.73    |      | Rare 9   | 0.73    | 0.73    |
|      | Rare 10  | 0.76    | 0.76    |      | Rare 10  | 0.73    | 0.73    |      | Rare 10  | 0.73    | 0.73    |      | Rare 10  | 0.73    | 0.73    |
|      | Rare 11  | 0.75    | 0.75    |      | Rare 11  | 0.73    | 0.73    |      | Rare 11  | 0.72    | 0.72    |      | Rare 11  | 0.72    | 0.72    |
|      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.72    | 0.72    |      | Rare 12  | 0.72    | 0.72    |      | Rare 12  | 0.72    | 0.72    |
|      | Rare 13  | 0.74    | 0.74    |      | Rare 13  | 0.72    | 0.72    |      | Rare 13  | 0.72    | 0.72    |      | Rare 13  | 0.72    | 0.72    |
|      | Rare 14  | 0.73    | 0.73    |      | Rare 14  | 0.71    | 0.71    |      | Rare 14  | 0.71    | 0.71    |      | Rare 14  | 0.71    | 0.71    |
|      | Freq 1   | 0.73    | 0.73    |      | Freq 1   | 0.71    | 0.71    |      | Freq 1   | 0.71    | 0.71    |      | Freq 1   | 0.71    | 0.71    |
|      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.70    | 0.70    |      | Freq 2   | 0.70    | 0.70    |      | Freq 2   | 0.70    | 0.70    |
|      | Freq 3   | 0.72    | 0.72    |      | Freq 3   | 0.70    | 0.70    |      | Freq 3   | 0.70    | 0.70    |      | Freq 3   | 0.70    | 0.70    |
|      | Freq 4   | 0.73    | 0.73    |      | Freq 4   | 0.70    | 0.70    |      | Freq 4   | 0.70    | 0.70    |      | Freq 4   | 0.70    | 0.70    |
|      | Freq 5   | 0.72    | 0.72    |      | Freq 5   | 0.70    | 0.70    |      | Freq 5   | 0.70    | 0.70    |      | Freq 5   | 0.70    | 0.70    |
|      | Freq 6   | 0.72    | 0.72    |      | Freq 6   | 0.70    | 0.70    |      | Freq 6   | 0.69    | 0.69    |      | Freq 6   | 0.69    | 0.69    |
|      | Perm 1   | 0.72    | 0.72    |      | Perm 1   | 0.70    | 0.70    |      | Perm 1   | 0.70    | 0.70    |      | Perm 1   | 0.70    | 0.70    |
|      | MAX.     | 0.77    | 0.77    |      | MAX.     | 0.74    | 0.74    |      | MAX.     | 0.74    | 0.74    |      | MAX.     | 0.74    | 0.74    |
| 60   | Rare 1   | 0.85    | 0.85    | 61   | Rare 1   | 0.83    | 0.83    | 62   | Rare 1   | 0.84    | 0.84    | 63   | Rare 1   | 0.86    | 0.86    |
|      | Rare 2   | 0.84    | 0.84    |      | Rare 2   | 0.83    | 0.83    |      | Rare 2   | 0.84    | 0.84    |      | Rare 2   | 0.85    | 0.85    |
|      | Rare 3   | 0.85    | 0.85    |      | Rare 3   | 0.83    | 0.83    |      | Rare 3   | 0.84    | 0.84    |      | Rare 3   | 0.86    | 0.86    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 4   | 0.84    | 0.84    |      | Rare 4   | 0.83    | 0.83    |      | Rare 4   | 0.84    | 0.84    |      | Rare 4   | 0.85    | 0.85    |
|      | Rare 5   | 0.83    | 0.83    |      | Rare 5   | 0.82    | 0.82    |      | Rare 5   | 0.83    | 0.83    |      | Rare 5   | 0.84    | 0.84    |
|      | Rare 6   | 0.86    | 0.86    |      | Rare 6   | 0.84    | 0.84    |      | Rare 6   | 0.85    | 0.85    |      | Rare 6   | 0.87    | 0.87    |
|      | Rare 7   | 0.85    | 0.85    |      | Rare 7   | 0.84    | 0.84    |      | Rare 7   | 0.84    | 0.84    |      | Rare 7   | 0.86    | 0.86    |
|      | Rare 8   | 0.85    | 0.85    |      | Rare 8   | 0.83    | 0.83    |      | Rare 8   | 0.84    | 0.84    |      | Rare 8   | 0.86    | 0.86    |
|      | Rare 9   | 0.85    | 0.85    |      | Rare 9   | 0.83    | 0.83    |      | Rare 9   | 0.84    | 0.84    |      | Rare 9   | 0.86    | 0.86    |
|      | Rare 10  | 0.84    | 0.84    |      | Rare 10  | 0.83    | 0.83    |      | Rare 10  | 0.84    | 0.84    |      | Rare 10  | 0.85    | 0.85    |
|      | Rare 11  | 0.83    | 0.83    |      | Rare 11  | 0.82    | 0.82    |      | Rare 11  | 0.83    | 0.83    |      | Rare 11  | 0.84    | 0.84    |
|      | Rare 12  | 0.84    | 0.84    |      | Rare 12  | 0.83    | 0.83    |      | Rare 12  | 0.84    | 0.84    |      | Rare 12  | 0.85    | 0.85    |
|      | Rare 13  | 0.83    | 0.83    |      | Rare 13  | 0.82    | 0.82    |      | Rare 13  | 0.83    | 0.83    |      | Rare 13  | 0.85    | 0.85    |
|      | Rare 14  | 0.82    | 0.82    |      | Rare 14  | 0.81    | 0.81    |      | Rare 14  | 0.82    | 0.82    |      | Rare 14  | 0.83    | 0.83    |
|      | Freq 1   | 0.81    | 0.81    |      | Freq 1   | 0.80    | 0.80    |      | Freq 1   | 0.81    | 0.81    |      | Freq 1   | 0.82    | 0.82    |
|      | Freq 2   | 0.81    | 0.81    |      | Freq 2   | 0.79    | 0.79    |      | Freq 2   | 0.80    | 0.80    |      | Freq 2   | 0.82    | 0.82    |
|      | Freq 3   | 0.80    | 0.80    |      | Freq 3   | 0.79    | 0.79    |      | Freq 3   | 0.80    | 0.80    |      | Freq 3   | 0.81    | 0.81    |
|      | Freq 4   | 0.80    | 0.80    |      | Freq 4   | 0.79    | 0.79    |      | Freq 4   | 0.80    | 0.80    |      | Freq 4   | 0.82    | 0.82    |
|      | Freq 5   | 0.80    | 0.80    |      | Freq 5   | 0.79    | 0.79    |      | Freq 5   | 0.80    | 0.80    |      | Freq 5   | 0.81    | 0.81    |
|      | Freq 6   | 0.80    | 0.80    |      | Freq 6   | 0.79    | 0.79    |      | Freq 6   | 0.80    | 0.80    |      | Freq 6   | 0.81    | 0.81    |
|      | Perm 1   | 0.80    | 0.80    |      | Perm 1   | 0.79    | 0.79    |      | Perm 1   | 0.80    | 0.80    |      | Perm 1   | 0.81    | 0.81    |
|      | MAX.     | 0.86    | 0.86    |      | MAX.     | 0.84    | 0.84    |      | MAX.     | 0.85    | 0.85    |      | MAX.     | 0.87    | 0.87    |
| 64   | Rare 1   | 0.96    | 0.96    | 65   | Rare 1   | 1.03    | 1.03    | 66   | Rare 1   | 1.04    | 1.04    | 67   | Rare 1   | 1.06    | 1.06    |
|      | Rare 2   | 0.94    | 0.94    |      | Rare 2   | 1.02    | 1.02    |      | Rare 2   | 1.03    | 1.03    |      | Rare 2   | 1.05    | 1.05    |
|      | Rare 3   | 0.95    | 0.95    |      | Rare 3   | 1.03    | 1.03    |      | Rare 3   | 1.04    | 1.04    |      | Rare 3   | 1.06    | 1.06    |
|      | Rare 4   | 0.94    | 0.94    |      | Rare 4   | 1.02    | 1.02    |      | Rare 4   | 1.03    | 1.03    |      | Rare 4   | 1.05    | 1.05    |
|      | Rare 5   | 0.93    | 0.93    |      | Rare 5   | 1.01    | 1.01    |      | Rare 5   | 1.01    | 1.01    |      | Rare 5   | 1.03    | 1.03    |
|      | Rare 6   | 0.96    | 0.96    |      | Rare 6   | 1.04    | 1.04    |      | Rare 6   | 1.04    | 1.04    |      | Rare 6   | 1.07    | 1.07    |
|      | Rare 7   | 0.95    | 0.95    |      | Rare 7   | 1.03    | 1.03    |      | Rare 7   | 1.03    | 1.03    |      | Rare 7   | 1.06    | 1.06    |
|      | Rare 8   | 0.94    | 0.94    |      | Rare 8   | 1.02    | 1.02    |      | Rare 8   | 1.02    | 1.02    |      | Rare 8   | 1.04    | 1.04    |
|      | Rare 9   | 0.96    | 0.96    |      | Rare 9   | 1.03    | 1.03    |      | Rare 9   | 1.04    | 1.04    |      | Rare 9   | 1.06    | 1.06    |
|      | Rare 10  | 0.94    | 0.94    |      | Rare 10  | 1.02    | 1.02    |      | Rare 10  | 1.03    | 1.03    |      | Rare 10  | 1.05    | 1.05    |
|      | Rare 11  | 0.93    | 0.93    |      | Rare 11  | 1.01    | 1.01    |      | Rare 11  | 1.01    | 1.01    |      | Rare 11  | 1.03    | 1.03    |
|      | Rare 12  | 0.95    | 0.95    |      | Rare 12  | 1.03    | 1.03    |      | Rare 12  | 1.03    | 1.03    |      | Rare 12  | 1.05    | 1.05    |
|      | Rare 13  | 0.94    | 0.94    |      | Rare 13  | 1.02    | 1.02    |      | Rare 13  | 1.02    | 1.02    |      | Rare 13  | 1.04    | 1.04    |
|      | Rare 14  | 0.91    | 0.91    |      | Rare 14  | 0.99    | 0.99    |      | Rare 14  | 1.00    | 1.00    |      | Rare 14  | 1.02    | 1.02    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 1   | 0.90    | 0.90    |      | Freq 1   | 0.98    | 0.98    |      | Freq 1   | 0.98    | 0.98    |      | Freq 1   | 1.00    | 1.00    |
|      | Freq 2   | 0.90    | 0.90    |      | Freq 2   | 0.98    | 0.98    |      | Freq 2   | 0.98    | 0.98    |      | Freq 2   | 1.00    | 1.00    |
|      | Freq 3   | 0.90    | 0.90    |      | Freq 3   | 0.97    | 0.97    |      | Freq 3   | 0.98    | 0.98    |      | Freq 3   | 1.00    | 1.00    |
|      | Freq 4   | 0.90    | 0.90    |      | Freq 4   | 0.97    | 0.97    |      | Freq 4   | 0.98    | 0.98    |      | Freq 4   | 1.00    | 1.00    |
|      | Freq 5   | 0.90    | 0.90    |      | Freq 5   | 0.97    | 0.97    |      | Freq 5   | 0.98    | 0.98    |      | Freq 5   | 1.00    | 1.00    |
|      | Freq 6   | 0.89    | 0.89    |      | Freq 6   | 0.97    | 0.97    |      | Freq 6   | 0.97    | 0.97    |      | Freq 6   | 0.99    | 0.99    |
|      | Perm 1   | 0.90    | 0.90    |      | Perm 1   | 0.97    | 0.97    |      | Perm 1   | 0.98    | 0.98    |      | Perm 1   | 1.00    | 1.00    |
|      | MAX.     | 0.96    | 0.96    |      | MAX.     | 1.04    | 1.04    |      | MAX.     | 1.04    | 1.04    |      | MAX.     | 1.07    | 1.07    |
| 68   | Rare 1   | 1.09    | 1.09    | 69   | Rare 1   | 0.98    | 0.98    | 70   | Rare 1   | 0.97    | 0.97    | 71   | Rare 1   | 1.00    | 1.00    |
|      | Rare 2   | 1.08    | 1.08    |      | Rare 2   | 0.97    | 0.97    |      | Rare 2   | 0.96    | 0.96    |      | Rare 2   | 0.99    | 0.99    |
|      | Rare 3   | 1.09    | 1.09    |      | Rare 3   | 0.98    | 0.98    |      | Rare 3   | 0.97    | 0.97    |      | Rare 3   | 1.00    | 1.00    |
|      | Rare 4   | 1.08    | 1.08    |      | Rare 4   | 0.97    | 0.97    |      | Rare 4   | 0.96    | 0.96    |      | Rare 4   | 0.99    | 0.99    |
|      | Rare 5   | 1.06    | 1.06    |      | Rare 5   | 0.95    | 0.95    |      | Rare 5   | 0.94    | 0.94    |      | Rare 5   | 0.97    | 0.97    |
|      | Rare 6   | 1.10    | 1.10    |      | Rare 6   | 0.99    | 0.99    |      | Rare 6   | 0.98    | 0.98    |      | Rare 6   | 1.01    | 1.01    |
|      | Rare 7   | 1.08    | 1.08    |      | Rare 7   | 0.98    | 0.98    |      | Rare 7   | 0.97    | 0.97    |      | Rare 7   | 1.00    | 1.00    |
|      | Rare 8   | 1.07    | 1.07    |      | Rare 8   | 0.97    | 0.97    |      | Rare 8   | 0.96    | 0.96    |      | Rare 8   | 0.98    | 0.98    |
|      | Rare 9   | 1.09    | 1.09    |      | Rare 9   | 0.98    | 0.98    |      | Rare 9   | 0.97    | 0.97    |      | Rare 9   | 1.00    | 1.00    |
|      | Rare 10  | 1.08    | 1.08    |      | Rare 10  | 0.97    | 0.97    |      | Rare 10  | 0.96    | 0.96    |      | Rare 10  | 0.99    | 0.99    |
|      | Rare 11  | 1.06    | 1.06    |      | Rare 11  | 0.95    | 0.95    |      | Rare 11  | 0.94    | 0.94    |      | Rare 11  | 0.97    | 0.97    |
|      | Rare 12  | 1.08    | 1.08    |      | Rare 12  | 0.97    | 0.97    |      | Rare 12  | 0.96    | 0.96    |      | Rare 12  | 0.99    | 0.99    |
|      | Rare 13  | 1.07    | 1.07    |      | Rare 13  | 0.96    | 0.96    |      | Rare 13  | 0.95    | 0.95    |      | Rare 13  | 0.98    | 0.98    |
|      | Rare 14  | 1.04    | 1.04    |      | Rare 14  | 0.93    | 0.93    |      | Rare 14  | 0.93    | 0.93    |      | Rare 14  | 0.95    | 0.95    |
|      | Freq 1   | 1.03    | 1.03    |      | Freq 1   | 0.93    | 0.93    |      | Freq 1   | 0.92    | 0.92    |      | Freq 1   | 0.94    | 0.94    |
|      | Freq 2   | 1.03    | 1.03    |      | Freq 2   | 0.93    | 0.93    |      | Freq 2   | 0.92    | 0.92    |      | Freq 2   | 0.94    | 0.94    |
|      | Freq 3   | 1.02    | 1.02    |      | Freq 3   | 0.92    | 0.92    |      | Freq 3   | 0.91    | 0.91    |      | Freq 3   | 0.93    | 0.93    |
|      | Freq 4   | 1.02    | 1.02    |      | Freq 4   | 0.92    | 0.92    |      | Freq 4   | 0.92    | 0.92    |      | Freq 4   | 0.94    | 0.94    |
|      | Freq 5   | 1.02    | 1.02    |      | Freq 5   | 0.92    | 0.92    |      | Freq 5   | 0.91    | 0.91    |      | Freq 5   | 0.93    | 0.93    |
|      | Freq 6   | 1.02    | 1.02    |      | Freq 6   | 0.91    | 0.91    |      | Freq 6   | 0.91    | 0.91    |      | Freq 6   | 0.93    | 0.93    |
|      | Perm 1   | 1.02    | 1.02    |      | Perm 1   | 0.92    | 0.92    |      | Perm 1   | 0.91    | 0.91    |      | Perm 1   | 0.93    | 0.93    |
|      | MAX.     | 1.10    | 1.10    |      | MAX.     | 0.99    | 0.99    |      | MAX.     | 0.98    | 0.98    |      | MAX.     | 1.01    | 1.01    |
| 72   | Rare 1   | 0.71    | 0.71    | 73   | Rare 1   | 0.73    | 0.73    | 74   | Rare 1   | 0.78    | 0.78    | 75   | Rare 1   | 0.73    | 0.73    |
|      | Rare 2   | 0.71    | 0.71    |      | Rare 2   | 0.73    | 0.73    |      | Rare 2   | 0.78    | 0.78    |      | Rare 2   | 0.73    | 0.73    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo    | Combinaz | Ced.El. | Ced.Ed. | Filo    | Combinaz | Ced.El. | Ced.Ed. | Filo    | Combinaz | Ced.El. | Ced.Ed. | Filo    | Combinaz | Ced.El. | Ced.Ed. |
|---------|----------|---------|---------|---------|----------|---------|---------|---------|----------|---------|---------|---------|----------|---------|---------|
| N.ro    | N.ro     | cm      | cm      | N.ro    | N.ro     | cm      | cm      | N.ro    | N.ro     | cm      | cm      | N.ro    | N.ro     | cm      | cm      |
| Rare 3  |          | 0.71    | 0.71    | Rare 3  |          | 0.73    | 0.73    | Rare 3  |          | 0.78    | 0.78    | Rare 3  |          | 0.73    | 0.73    |
| Rare 4  |          | 0.71    | 0.71    | Rare 4  |          | 0.73    | 0.73    | Rare 4  |          | 0.78    | 0.78    | Rare 4  |          | 0.73    | 0.73    |
| Rare 5  |          | 0.70    | 0.70    | Rare 5  |          | 0.72    | 0.72    | Rare 5  |          | 0.77    | 0.77    | Rare 5  |          | 0.73    | 0.73    |
| Rare 6  |          | 0.72    | 0.72    | Rare 6  |          | 0.74    | 0.74    | Rare 6  |          | 0.79    | 0.79    | Rare 6  |          | 0.74    | 0.74    |
| Rare 7  |          | 0.72    | 0.72    | Rare 7  |          | 0.73    | 0.73    | Rare 7  |          | 0.79    | 0.79    | Rare 7  |          | 0.74    | 0.74    |
| Rare 8  |          | 0.72    | 0.72    | Rare 8  |          | 0.74    | 0.74    | Rare 8  |          | 0.79    | 0.79    | Rare 8  |          | 0.74    | 0.74    |
| Rare 9  |          | 0.71    | 0.71    | Rare 9  |          | 0.73    | 0.73    | Rare 9  |          | 0.78    | 0.78    | Rare 9  |          | 0.73    | 0.73    |
| Rare 10 |          | 0.71    | 0.71    | Rare 10 |          | 0.73    | 0.73    | Rare 10 |          | 0.78    | 0.78    | Rare 10 |          | 0.73    | 0.73    |
| Rare 11 |          | 0.70    | 0.70    | Rare 11 |          | 0.72    | 0.72    | Rare 11 |          | 0.77    | 0.77    | Rare 11 |          | 0.72    | 0.72    |
| Rare 12 |          | 0.70    | 0.70    | Rare 12 |          | 0.72    | 0.72    | Rare 12 |          | 0.77    | 0.77    | Rare 12 |          | 0.72    | 0.72    |
| Rare 13 |          | 0.70    | 0.70    | Rare 13 |          | 0.72    | 0.72    | Rare 13 |          | 0.77    | 0.77    | Rare 13 |          | 0.72    | 0.72    |
| Rare 14 |          | 0.69    | 0.69    | Rare 14 |          | 0.71    | 0.71    | Rare 14 |          | 0.75    | 0.75    | Rare 14 |          | 0.71    | 0.71    |
| Freq 1  |          | 0.69    | 0.69    | Freq 1  |          | 0.71    | 0.71    | Freq 1  |          | 0.75    | 0.75    | Freq 1  |          | 0.71    | 0.71    |
| Freq 2  |          | 0.68    | 0.68    | Freq 2  |          | 0.70    | 0.70    | Freq 2  |          | 0.75    | 0.75    | Freq 2  |          | 0.70    | 0.70    |
| Freq 3  |          | 0.68    | 0.68    | Freq 3  |          | 0.70    | 0.70    | Freq 3  |          | 0.74    | 0.74    | Freq 3  |          | 0.70    | 0.70    |
| Freq 4  |          | 0.68    | 0.68    | Freq 4  |          | 0.70    | 0.70    | Freq 4  |          | 0.75    | 0.75    | Freq 4  |          | 0.70    | 0.70    |
| Freq 5  |          | 0.68    | 0.68    | Freq 5  |          | 0.70    | 0.70    | Freq 5  |          | 0.74    | 0.74    | Freq 5  |          | 0.70    | 0.70    |
| Freq 6  |          | 0.68    | 0.68    | Freq 6  |          | 0.69    | 0.69    | Freq 6  |          | 0.74    | 0.74    | Freq 6  |          | 0.69    | 0.69    |
| Perm 1  |          | 0.68    | 0.68    | Perm 1  |          | 0.70    | 0.70    | Perm 1  |          | 0.74    | 0.74    | Perm 1  |          | 0.70    | 0.70    |
| MAX.    |          | 0.72    | 0.72    | MAX.    |          | 0.74    | 0.74    | MAX.    |          | 0.79    | 0.79    | MAX.    |          | 0.74    | 0.74    |
| 76      | Rare 1   | 0.75    | 0.75    | 77      | Rare 1   | 0.78    | 0.78    | 78      | Rare 1   | 0.80    | 0.80    | 79      | Rare 1   | 0.86    | 0.86    |
|         | Rare 2   | 0.74    | 0.74    |         | Rare 2   | 0.78    | 0.78    |         | Rare 2   | 0.80    | 0.80    |         | Rare 2   | 0.85    | 0.85    |
|         | Rare 3   | 0.75    | 0.75    |         | Rare 3   | 0.78    | 0.78    |         | Rare 3   | 0.80    | 0.80    |         | Rare 3   | 0.86    | 0.86    |
|         | Rare 4   | 0.74    | 0.74    |         | Rare 4   | 0.78    | 0.78    |         | Rare 4   | 0.80    | 0.80    |         | Rare 4   | 0.85    | 0.85    |
|         | Rare 5   | 0.74    | 0.74    |         | Rare 5   | 0.77    | 0.77    |         | Rare 5   | 0.79    | 0.79    |         | Rare 5   | 0.84    | 0.84    |
|         | Rare 6   | 0.76    | 0.76    |         | Rare 6   | 0.79    | 0.79    |         | Rare 6   | 0.81    | 0.81    |         | Rare 6   | 0.86    | 0.86    |
|         | Rare 7   | 0.75    | 0.75    |         | Rare 7   | 0.79    | 0.79    |         | Rare 7   | 0.81    | 0.81    |         | Rare 7   | 0.86    | 0.86    |
|         | Rare 8   | 0.75    | 0.75    |         | Rare 8   | 0.79    | 0.79    |         | Rare 8   | 0.81    | 0.81    |         | Rare 8   | 0.85    | 0.85    |
|         | Rare 9   | 0.74    | 0.74    |         | Rare 9   | 0.78    | 0.78    |         | Rare 9   | 0.80    | 0.80    |         | Rare 9   | 0.86    | 0.86    |
|         | Rare 10  | 0.74    | 0.74    |         | Rare 10  | 0.77    | 0.77    |         | Rare 10  | 0.80    | 0.80    |         | Rare 10  | 0.85    | 0.85    |
|         | Rare 11  | 0.74    | 0.74    |         | Rare 11  | 0.77    | 0.77    |         | Rare 11  | 0.79    | 0.79    |         | Rare 11  | 0.84    | 0.84    |
|         | Rare 12  | 0.73    | 0.73    |         | Rare 12  | 0.77    | 0.77    |         | Rare 12  | 0.79    | 0.79    |         | Rare 12  | 0.85    | 0.85    |
|         | Rare 13  | 0.73    | 0.73    |         | Rare 13  | 0.76    | 0.76    |         | Rare 13  | 0.78    | 0.78    |         | Rare 13  | 0.84    | 0.84    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 14  | 0.72    | 0.72    |      | Rare 14  | 0.75    | 0.75    |      | Rare 14  | 0.77    | 0.77    |      | Rare 14  | 0.83    | 0.83    |
|      | Freq 1   | 0.72    | 0.72    |      | Freq 1   | 0.75    | 0.75    |      | Freq 1   | 0.77    | 0.77    |      | Freq 1   | 0.82    | 0.82    |
|      | Freq 2   | 0.71    | 0.71    |      | Freq 2   | 0.74    | 0.74    |      | Freq 2   | 0.76    | 0.76    |      | Freq 2   | 0.81    | 0.81    |
|      | Freq 3   | 0.71    | 0.71    |      | Freq 3   | 0.74    | 0.74    |      | Freq 3   | 0.76    | 0.76    |      | Freq 3   | 0.81    | 0.81    |
|      | Freq 4   | 0.71    | 0.71    |      | Freq 4   | 0.75    | 0.75    |      | Freq 4   | 0.77    | 0.77    |      | Freq 4   | 0.81    | 0.81    |
|      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.74    | 0.74    |      | Freq 5   | 0.76    | 0.76    |      | Freq 5   | 0.81    | 0.81    |
|      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.74    | 0.74    |      | Freq 6   | 0.76    | 0.76    |      | Freq 6   | 0.81    | 0.81    |
|      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.74    | 0.74    |      | Perm 1   | 0.76    | 0.76    |      | Perm 1   | 0.81    | 0.81    |
|      | MAX.     | 0.76    | 0.76    |      | MAX.     | 0.79    | 0.79    |      | MAX.     | 0.81    | 0.81    |      | MAX.     | 0.86    | 0.86    |
| 80   | Rare 1   | 0.86    | 0.86    | 81   | Rare 1   | 0.88    | 0.88    | 82   | Rare 1   | 0.89    | 0.89    | 83   | Rare 1   | 1.07    | 1.07    |
|      | Rare 2   | 0.85    | 0.85    |      | Rare 2   | 0.87    | 0.87    |      | Rare 2   | 0.89    | 0.89    |      | Rare 2   | 1.06    | 1.06    |
|      | Rare 3   | 0.86    | 0.86    |      | Rare 3   | 0.88    | 0.88    |      | Rare 3   | 0.90    | 0.90    |      | Rare 3   | 1.07    | 1.07    |
|      | Rare 4   | 0.85    | 0.85    |      | Rare 4   | 0.87    | 0.87    |      | Rare 4   | 0.89    | 0.89    |      | Rare 4   | 1.06    | 1.06    |
|      | Rare 5   | 0.84    | 0.84    |      | Rare 5   | 0.86    | 0.86    |      | Rare 5   | 0.88    | 0.88    |      | Rare 5   | 1.04    | 1.04    |
|      | Rare 6   | 0.87    | 0.87    |      | Rare 6   | 0.89    | 0.89    |      | Rare 6   | 0.90    | 0.90    |      | Rare 6   | 1.08    | 1.08    |
|      | Rare 7   | 0.86    | 0.86    |      | Rare 7   | 0.88    | 0.88    |      | Rare 7   | 0.90    | 0.90    |      | Rare 7   | 1.06    | 1.06    |
|      | Rare 8   | 0.85    | 0.85    |      | Rare 8   | 0.87    | 0.87    |      | Rare 8   | 0.89    | 0.89    |      | Rare 8   | 1.05    | 1.05    |
|      | Rare 9   | 0.86    | 0.86    |      | Rare 9   | 0.88    | 0.88    |      | Rare 9   | 0.89    | 0.89    |      | Rare 9   | 1.07    | 1.07    |
|      | Rare 10  | 0.85    | 0.85    |      | Rare 10  | 0.87    | 0.87    |      | Rare 10  | 0.89    | 0.89    |      | Rare 10  | 1.06    | 1.06    |
|      | Rare 11  | 0.84    | 0.84    |      | Rare 11  | 0.86    | 0.86    |      | Rare 11  | 0.88    | 0.88    |      | Rare 11  | 1.04    | 1.04    |
|      | Rare 12  | 0.85    | 0.85    |      | Rare 12  | 0.87    | 0.87    |      | Rare 12  | 0.89    | 0.89    |      | Rare 12  | 1.06    | 1.06    |
|      | Rare 13  | 0.84    | 0.84    |      | Rare 13  | 0.86    | 0.86    |      | Rare 13  | 0.88    | 0.88    |      | Rare 13  | 1.05    | 1.05    |
|      | Rare 14  | 0.83    | 0.83    |      | Rare 14  | 0.85    | 0.85    |      | Rare 14  | 0.86    | 0.86    |      | Rare 14  | 1.03    | 1.03    |
|      | Freq 1   | 0.82    | 0.82    |      | Freq 1   | 0.84    | 0.84    |      | Freq 1   | 0.86    | 0.86    |      | Freq 1   | 1.01    | 1.01    |
|      | Freq 2   | 0.82    | 0.82    |      | Freq 2   | 0.83    | 0.83    |      | Freq 2   | 0.85    | 0.85    |      | Freq 2   | 1.01    | 1.01    |
|      | Freq 3   | 0.81    | 0.81    |      | Freq 3   | 0.83    | 0.83    |      | Freq 3   | 0.85    | 0.85    |      | Freq 3   | 1.00    | 1.00    |
|      | Freq 4   | 0.81    | 0.81    |      | Freq 4   | 0.83    | 0.83    |      | Freq 4   | 0.85    | 0.85    |      | Freq 4   | 1.01    | 1.01    |
|      | Freq 5   | 0.81    | 0.81    |      | Freq 5   | 0.83    | 0.83    |      | Freq 5   | 0.85    | 0.85    |      | Freq 5   | 1.00    | 1.00    |
|      | Freq 6   | 0.81    | 0.81    |      | Freq 6   | 0.83    | 0.83    |      | Freq 6   | 0.84    | 0.84    |      | Freq 6   | 1.00    | 1.00    |
|      | Perm 1   | 0.81    | 0.81    |      | Perm 1   | 0.83    | 0.83    |      | Perm 1   | 0.85    | 0.85    |      | Perm 1   | 1.00    | 1.00    |
|      | MAX.     | 0.87    | 0.87    |      | MAX.     | 0.89    | 0.89    |      | MAX.     | 0.90    | 0.90    |      | MAX.     | 1.08    | 1.08    |
| 84   | Rare 1   | 1.06    | 1.06    | 85   | Rare 1   | 1.07    | 1.07    | 86   | Rare 1   | 1.07    | 1.07    | 87   | Rare 1   | 1.01    | 1.01    |



**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 2   | 1.04    | 1.04    |      | Rare 2   | 1.06    | 1.06    |      | Rare 2   | 1.06    | 1.06    |      | Rare 2   | 0.99    | 0.99    |
|      | Rare 3   | 1.06    | 1.06    |      | Rare 3   | 1.07    | 1.07    |      | Rare 3   | 1.07    | 1.07    |      | Rare 3   | 1.01    | 1.01    |
|      | Rare 4   | 1.04    | 1.04    |      | Rare 4   | 1.06    | 1.06    |      | Rare 4   | 1.06    | 1.06    |      | Rare 4   | 0.99    | 0.99    |
|      | Rare 5   | 1.03    | 1.03    |      | Rare 5   | 1.04    | 1.04    |      | Rare 5   | 1.04    | 1.04    |      | Rare 5   | 0.97    | 0.97    |
|      | Rare 6   | 1.06    | 1.06    |      | Rare 6   | 1.08    | 1.08    |      | Rare 6   | 1.08    | 1.08    |      | Rare 6   | 1.02    | 1.02    |
|      | Rare 7   | 1.05    | 1.05    |      | Rare 7   | 1.07    | 1.07    |      | Rare 7   | 1.07    | 1.07    |      | Rare 7   | 1.00    | 1.00    |
|      | Rare 8   | 1.04    | 1.04    |      | Rare 8   | 1.05    | 1.05    |      | Rare 8   | 1.06    | 1.06    |      | Rare 8   | 0.99    | 0.99    |
|      | Rare 9   | 1.06    | 1.06    |      | Rare 9   | 1.07    | 1.07    |      | Rare 9   | 1.07    | 1.07    |      | Rare 9   | 1.01    | 1.01    |
|      | Rare 10  | 1.04    | 1.04    |      | Rare 10  | 1.06    | 1.06    |      | Rare 10  | 1.06    | 1.06    |      | Rare 10  | 0.99    | 0.99    |
|      | Rare 11  | 1.03    | 1.03    |      | Rare 11  | 1.04    | 1.04    |      | Rare 11  | 1.04    | 1.04    |      | Rare 11  | 0.97    | 0.97    |
|      | Rare 12  | 1.05    | 1.05    |      | Rare 12  | 1.06    | 1.06    |      | Rare 12  | 1.07    | 1.07    |      | Rare 12  | 1.00    | 1.00    |
|      | Rare 13  | 1.04    | 1.04    |      | Rare 13  | 1.05    | 1.05    |      | Rare 13  | 1.05    | 1.05    |      | Rare 13  | 0.98    | 0.98    |
|      | Rare 14  | 1.02    | 1.02    |      | Rare 14  | 1.03    | 1.03    |      | Rare 14  | 1.03    | 1.03    |      | Rare 14  | 0.96    | 0.96    |
|      | Freq 1   | 1.00    | 1.00    |      | Freq 1   | 1.01    | 1.01    |      | Freq 1   | 1.02    | 1.02    |      | Freq 1   | 0.95    | 0.95    |
|      | Freq 2   | 1.00    | 1.00    |      | Freq 2   | 1.01    | 1.01    |      | Freq 2   | 1.01    | 1.01    |      | Freq 2   | 0.95    | 0.95    |
|      | Freq 3   | 0.99    | 0.99    |      | Freq 3   | 1.00    | 1.00    |      | Freq 3   | 1.01    | 1.01    |      | Freq 3   | 0.94    | 0.94    |
|      | Freq 4   | 0.99    | 0.99    |      | Freq 4   | 1.01    | 1.01    |      | Freq 4   | 1.01    | 1.01    |      | Freq 4   | 0.94    | 0.94    |
|      | Freq 5   | 0.99    | 0.99    |      | Freq 5   | 1.01    | 1.01    |      | Freq 5   | 1.01    | 1.01    |      | Freq 5   | 0.94    | 0.94    |
|      | Freq 6   | 0.99    | 0.99    |      | Freq 6   | 1.00    | 1.00    |      | Freq 6   | 1.00    | 1.00    |      | Freq 6   | 0.94    | 0.94    |
|      | Perm 1   | 0.99    | 0.99    |      | Perm 1   | 1.00    | 1.00    |      | Perm 1   | 1.01    | 1.01    |      | Perm 1   | 0.94    | 0.94    |
|      | MAX.     | 1.06    | 1.06    |      | MAX.     | 1.08    | 1.08    |      | MAX.     | 1.08    | 1.08    |      | MAX.     | 1.02    | 1.02    |
| 88   | Rare 1   | 0.99    | 0.99    | 89   | Rare 1   | 1.00    | 1.00    | 90   | Rare 1   | 1.31    | 1.31    | 91   | Rare 1   | 1.30    | 1.30    |
|      | Rare 2   | 0.98    | 0.98    |      | Rare 2   | 0.99    | 0.99    |      | Rare 2   | 1.29    | 1.29    |      | Rare 2   | 1.29    | 1.29    |
|      | Rare 3   | 0.99    | 0.99    |      | Rare 3   | 1.00    | 1.00    |      | Rare 3   | 1.31    | 1.31    |      | Rare 3   | 1.30    | 1.30    |
|      | Rare 4   | 0.98    | 0.98    |      | Rare 4   | 0.99    | 0.99    |      | Rare 4   | 1.29    | 1.29    |      | Rare 4   | 1.29    | 1.29    |
|      | Rare 5   | 0.96    | 0.96    |      | Rare 5   | 0.97    | 0.97    |      | Rare 5   | 1.27    | 1.27    |      | Rare 5   | 1.27    | 1.27    |
|      | Rare 6   | 1.00    | 1.00    |      | Rare 6   | 1.01    | 1.01    |      | Rare 6   | 1.28    | 1.28    |      | Rare 6   | 1.28    | 1.28    |
|      | Rare 7   | 0.99    | 0.99    |      | Rare 7   | 1.00    | 1.00    |      | Rare 7   | 1.27    | 1.27    |      | Rare 7   | 1.27    | 1.27    |
|      | Rare 8   | 0.97    | 0.97    |      | Rare 8   | 0.98    | 0.98    |      | Rare 8   | 1.23    | 1.23    |      | Rare 8   | 1.23    | 1.23    |
|      | Rare 9   | 0.99    | 0.99    |      | Rare 9   | 1.00    | 1.00    |      | Rare 9   | 1.31    | 1.31    |      | Rare 9   | 1.30    | 1.30    |
|      | Rare 10  | 0.98    | 0.98    |      | Rare 10  | 0.99    | 0.99    |      | Rare 10  | 1.29    | 1.29    |      | Rare 10  | 1.29    | 1.29    |
|      | Rare 11  | 0.96    | 0.96    |      | Rare 11  | 0.97    | 0.97    |      | Rare 11  | 1.27    | 1.27    |      | Rare 11  | 1.27    | 1.27    |
|      | Rare 12  | 0.98    | 0.98    |      | Rare 12  | 0.99    | 0.99    |      | Rare 12  | 1.33    | 1.33    |      | Rare 12  | 1.33    | 1.33    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 13  | 0.97    | 0.97    |      | Rare 13  | 0.98    | 0.98    |      | Rare 13  | 1.32    | 1.32    |      | Rare 13  | 1.31    | 1.31    |
|      | Rare 14  | 0.94    | 0.94    |      | Rare 14  | 0.95    | 0.95    |      | Rare 14  | 1.31    | 1.31    |      | Rare 14  | 1.31    | 1.31    |
|      | Freq 1   | 0.93    | 0.93    |      | Freq 1   | 0.94    | 0.94    |      | Freq 1   | 1.24    | 1.24    |      | Freq 1   | 1.24    | 1.24    |
|      | Freq 2   | 0.93    | 0.93    |      | Freq 2   | 0.94    | 0.94    |      | Freq 2   | 1.24    | 1.24    |      | Freq 2   | 1.24    | 1.24    |
|      | Freq 3   | 0.93    | 0.93    |      | Freq 3   | 0.93    | 0.93    |      | Freq 3   | 1.23    | 1.23    |      | Freq 3   | 1.23    | 1.23    |
|      | Freq 4   | 0.93    | 0.93    |      | Freq 4   | 0.94    | 0.94    |      | Freq 4   | 1.22    | 1.22    |      | Freq 4   | 1.22    | 1.22    |
|      | Freq 5   | 0.93    | 0.93    |      | Freq 5   | 0.93    | 0.93    |      | Freq 5   | 1.23    | 1.23    |      | Freq 5   | 1.23    | 1.23    |
|      | Freq 6   | 0.92    | 0.92    |      | Freq 6   | 0.93    | 0.93    |      | Freq 6   | 1.24    | 1.24    |      | Freq 6   | 1.24    | 1.24    |
|      | Perm 1   | 0.93    | 0.93    |      | Perm 1   | 0.93    | 0.93    |      | Perm 1   | 1.23    | 1.23    |      | Perm 1   | 1.23    | 1.23    |
|      | MAX.     | 1.00    | 1.00    |      | MAX.     | 1.01    | 1.01    |      | MAX.     | 1.33    | 1.33    |      | MAX.     | 1.33    | 1.33    |
| 92   | Rare 1   | 1.26    | 1.26    | 93   | Rare 1   | 0.96    | 0.96    | 94   | Rare 1   | 0.82    | 0.82    | 95   | Rare 1   | 0.76    | 0.76    |
|      | Rare 2   | 1.25    | 1.25    |      | Rare 2   | 0.95    | 0.95    |      | Rare 2   | 0.81    | 0.81    |      | Rare 2   | 0.75    | 0.75    |
|      | Rare 3   | 1.26    | 1.26    |      | Rare 3   | 0.96    | 0.96    |      | Rare 3   | 0.82    | 0.82    |      | Rare 3   | 0.76    | 0.76    |
|      | Rare 4   | 1.25    | 1.25    |      | Rare 4   | 0.95    | 0.95    |      | Rare 4   | 0.81    | 0.81    |      | Rare 4   | 0.75    | 0.75    |
|      | Rare 5   | 1.23    | 1.23    |      | Rare 5   | 0.94    | 0.94    |      | Rare 5   | 0.81    | 0.81    |      | Rare 5   | 0.75    | 0.75    |
|      | Rare 6   | 1.24    | 1.24    |      | Rare 6   | 0.96    | 0.96    |      | Rare 6   | 0.81    | 0.81    |      | Rare 6   | 0.75    | 0.75    |
|      | Rare 7   | 1.23    | 1.23    |      | Rare 7   | 0.95    | 0.95    |      | Rare 7   | 0.81    | 0.81    |      | Rare 7   | 0.75    | 0.75    |
|      | Rare 8   | 1.19    | 1.19    |      | Rare 8   | 0.94    | 0.94    |      | Rare 8   | 0.80    | 0.80    |      | Rare 8   | 0.74    | 0.74    |
|      | Rare 9   | 1.26    | 1.26    |      | Rare 9   | 0.96    | 0.96    |      | Rare 9   | 0.82    | 0.82    |      | Rare 9   | 0.76    | 0.76    |
|      | Rare 10  | 1.25    | 1.25    |      | Rare 10  | 0.95    | 0.95    |      | Rare 10  | 0.81    | 0.81    |      | Rare 10  | 0.75    | 0.75    |
|      | Rare 11  | 1.23    | 1.23    |      | Rare 11  | 0.94    | 0.94    |      | Rare 11  | 0.81    | 0.81    |      | Rare 11  | 0.75    | 0.75    |
|      | Rare 12  | 1.28    | 1.28    |      | Rare 12  | 0.96    | 0.96    |      | Rare 12  | 0.82    | 0.82    |      | Rare 12  | 0.76    | 0.76    |
|      | Rare 13  | 1.27    | 1.27    |      | Rare 13  | 0.96    | 0.96    |      | Rare 13  | 0.82    | 0.82    |      | Rare 13  | 0.76    | 0.76    |
|      | Rare 14  | 1.26    | 1.26    |      | Rare 14  | 0.95    | 0.95    |      | Rare 14  | 0.81    | 0.81    |      | Rare 14  | 0.75    | 0.75    |
|      | Freq 1   | 1.20    | 1.20    |      | Freq 1   | 0.92    | 0.92    |      | Freq 1   | 0.79    | 0.79    |      | Freq 1   | 0.73    | 0.73    |
|      | Freq 2   | 1.20    | 1.20    |      | Freq 2   | 0.91    | 0.91    |      | Freq 2   | 0.78    | 0.78    |      | Freq 2   | 0.72    | 0.72    |
|      | Freq 3   | 1.19    | 1.19    |      | Freq 3   | 0.91    | 0.91    |      | Freq 3   | 0.78    | 0.78    |      | Freq 3   | 0.72    | 0.72    |
|      | Freq 4   | 1.18    | 1.18    |      | Freq 4   | 0.91    | 0.91    |      | Freq 4   | 0.78    | 0.78    |      | Freq 4   | 0.72    | 0.72    |
|      | Freq 5   | 1.19    | 1.19    |      | Freq 5   | 0.91    | 0.91    |      | Freq 5   | 0.78    | 0.78    |      | Freq 5   | 0.72    | 0.72    |
|      | Freq 6   | 1.20    | 1.20    |      | Freq 6   | 0.91    | 0.91    |      | Freq 6   | 0.78    | 0.78    |      | Freq 6   | 0.72    | 0.72    |
|      | Perm 1   | 1.19    | 1.19    |      | Perm 1   | 0.91    | 0.91    |      | Perm 1   | 0.78    | 0.78    |      | Perm 1   | 0.72    | 0.72    |
|      | MAX.     | 1.28    | 1.28    |      | MAX.     | 0.96    | 0.96    |      | MAX.     | 0.82    | 0.82    |      | MAX.     | 0.76    | 0.76    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
| 96   | Rare 1   | 0.77    | 0.77    | 97   | Rare 1   | 0.75    | 0.75    | 98   | Rare 1   | 0.58    | 0.58    | 99   | Rare 1   | 0.49    | 0.49    |
|      | Rare 2   | 0.76    | 0.76    |      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.58    | 0.58    |      | Rare 2   | 0.49    | 0.49    |
|      | Rare 3   | 0.77    | 0.77    |      | Rare 3   | 0.75    | 0.75    |      | Rare 3   | 0.58    | 0.58    |      | Rare 3   | 0.49    | 0.49    |
|      | Rare 4   | 0.76    | 0.76    |      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.58    | 0.58    |      | Rare 4   | 0.49    | 0.49    |
|      | Rare 5   | 0.75    | 0.75    |      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.58    | 0.58    |      | Rare 5   | 0.49    | 0.49    |
|      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 0.58    | 0.58    |      | Rare 6   | 0.49    | 0.49    |
|      | Rare 7   | 0.76    | 0.76    |      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 0.58    | 0.58    |      | Rare 7   | 0.49    | 0.49    |
|      | Rare 8   | 0.75    | 0.75    |      | Rare 8   | 0.75    | 0.75    |      | Rare 8   | 0.58    | 0.58    |      | Rare 8   | 0.49    | 0.49    |
|      | Rare 9   | 0.77    | 0.77    |      | Rare 9   | 0.75    | 0.75    |      | Rare 9   | 0.58    | 0.58    |      | Rare 9   | 0.49    | 0.49    |
|      | Rare 10  | 0.76    | 0.76    |      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.58    | 0.58    |      | Rare 10  | 0.49    | 0.49    |
|      | Rare 11  | 0.75    | 0.75    |      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.58    | 0.58    |      | Rare 11  | 0.49    | 0.49    |
|      | Rare 12  | 0.77    | 0.77    |      | Rare 12  | 0.74    | 0.74    |      | Rare 12  | 0.58    | 0.58    |      | Rare 12  | 0.49    | 0.49    |
|      | Rare 13  | 0.77    | 0.77    |      | Rare 13  | 0.74    | 0.74    |      | Rare 13  | 0.58    | 0.58    |      | Rare 13  | 0.49    | 0.49    |
|      | Rare 14  | 0.76    | 0.76    |      | Rare 14  | 0.73    | 0.73    |      | Rare 14  | 0.57    | 0.57    |      | Rare 14  | 0.48    | 0.48    |
|      | Freq 1   | 0.74    | 0.74    |      | Freq 1   | 0.73    | 0.73    |      | Freq 1   | 0.57    | 0.57    |      | Freq 1   | 0.48    | 0.48    |
|      | Freq 2   | 0.73    | 0.73    |      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.56    | 0.56    |      | Freq 2   | 0.47    | 0.47    |
|      | Freq 3   | 0.73    | 0.73    |      | Freq 3   | 0.71    | 0.71    |      | Freq 3   | 0.56    | 0.56    |      | Freq 3   | 0.47    | 0.47    |
|      | Freq 4   | 0.73    | 0.73    |      | Freq 4   | 0.72    | 0.72    |      | Freq 4   | 0.56    | 0.56    |      | Freq 4   | 0.47    | 0.47    |
|      | Freq 5   | 0.73    | 0.73    |      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.56    | 0.56    |      | Freq 5   | 0.47    | 0.47    |
|      | Freq 6   | 0.73    | 0.73    |      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.56    | 0.56    |      | Freq 6   | 0.47    | 0.47    |
|      | Perm 1   | 0.73    | 0.73    |      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.56    | 0.56    |      | Perm 1   | 0.47    | 0.47    |
|      | MAX.     | 0.77    | 0.77    |      | MAX.     | 0.76    | 0.76    |      | MAX.     | 0.58    | 0.58    |      | MAX.     | 0.49    | 0.49    |
| 100  | Rare 1   | 0.86    | 0.86    | 101  | Rare 1   | 0.80    | 0.80    | 102  | Rare 1   | 0.77    | 0.77    | 103  | Rare 1   | 0.76    | 0.76    |
|      | Rare 2   | 0.85    | 0.85    |      | Rare 2   | 0.79    | 0.79    |      | Rare 2   | 0.76    | 0.76    |      | Rare 2   | 0.75    | 0.75    |
|      | Rare 3   | 0.86    | 0.86    |      | Rare 3   | 0.80    | 0.80    |      | Rare 3   | 0.77    | 0.77    |      | Rare 3   | 0.76    | 0.76    |
|      | Rare 4   | 0.85    | 0.85    |      | Rare 4   | 0.79    | 0.79    |      | Rare 4   | 0.76    | 0.76    |      | Rare 4   | 0.75    | 0.75    |
|      | Rare 5   | 0.84    | 0.84    |      | Rare 5   | 0.78    | 0.78    |      | Rare 5   | 0.75    | 0.75    |      | Rare 5   | 0.74    | 0.74    |
|      | Rare 6   | 0.86    | 0.86    |      | Rare 6   | 0.80    | 0.80    |      | Rare 6   | 0.77    | 0.77    |      | Rare 6   | 0.76    | 0.76    |
|      | Rare 7   | 0.86    | 0.86    |      | Rare 7   | 0.79    | 0.79    |      | Rare 7   | 0.76    | 0.76    |      | Rare 7   | 0.75    | 0.75    |
|      | Rare 8   | 0.85    | 0.85    |      | Rare 8   | 0.78    | 0.78    |      | Rare 8   | 0.76    | 0.76    |      | Rare 8   | 0.74    | 0.74    |
|      | Rare 9   | 0.86    | 0.86    |      | Rare 9   | 0.80    | 0.80    |      | Rare 9   | 0.77    | 0.77    |      | Rare 9   | 0.76    | 0.76    |
|      | Rare 10  | 0.85    | 0.85    |      | Rare 10  | 0.79    | 0.79    |      | Rare 10  | 0.76    | 0.76    |      | Rare 10  | 0.75    | 0.75    |
|      | Rare 11  | 0.84    | 0.84    |      | Rare 11  | 0.78    | 0.78    |      | Rare 11  | 0.75    | 0.75    |      | Rare 11  | 0.74    | 0.74    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 12  | 0.85    | 0.85    |      | Rare 12  | 0.79    | 0.79    |      | Rare 12  | 0.77    | 0.77    |      | Rare 12  | 0.76    | 0.76    |
|      | Rare 13  | 0.85    | 0.85    |      | Rare 13  | 0.79    | 0.79    |      | Rare 13  | 0.76    | 0.76    |      | Rare 13  | 0.75    | 0.75    |
|      | Rare 14  | 0.83    | 0.83    |      | Rare 14  | 0.78    | 0.78    |      | Rare 14  | 0.75    | 0.75    |      | Rare 14  | 0.74    | 0.74    |
|      | Freq 1   | 0.82    | 0.82    |      | Freq 1   | 0.76    | 0.76    |      | Freq 1   | 0.74    | 0.74    |      | Freq 1   | 0.72    | 0.72    |
|      | Freq 2   | 0.81    | 0.81    |      | Freq 2   | 0.76    | 0.76    |      | Freq 2   | 0.73    | 0.73    |      | Freq 2   | 0.72    | 0.72    |
|      | Freq 3   | 0.81    | 0.81    |      | Freq 3   | 0.75    | 0.75    |      | Freq 3   | 0.73    | 0.73    |      | Freq 3   | 0.71    | 0.71    |
|      | Freq 4   | 0.81    | 0.81    |      | Freq 4   | 0.75    | 0.75    |      | Freq 4   | 0.73    | 0.73    |      | Freq 4   | 0.72    | 0.72    |
|      | Freq 5   | 0.81    | 0.81    |      | Freq 5   | 0.75    | 0.75    |      | Freq 5   | 0.73    | 0.73    |      | Freq 5   | 0.71    | 0.71    |
|      | Freq 6   | 0.81    | 0.81    |      | Freq 6   | 0.75    | 0.75    |      | Freq 6   | 0.73    | 0.73    |      | Freq 6   | 0.71    | 0.71    |
|      | Perm 1   | 0.81    | 0.81    |      | Perm 1   | 0.75    | 0.75    |      | Perm 1   | 0.73    | 0.73    |      | Perm 1   | 0.71    | 0.71    |
|      | MAX.     | 0.86    | 0.86    |      | MAX.     | 0.80    | 0.80    |      | MAX.     | 0.77    | 0.77    |      | MAX.     | 0.76    | 0.76    |
| 104  | Rare 1   | 1.12    | 1.12    | 105  | Rare 1   | 1.11    | 1.11    | 106  | Rare 1   | 1.12    | 1.12    | 107  | Rare 1   | 1.20    | 1.20    |
|      | Rare 2   | 1.10    | 1.10    |      | Rare 2   | 1.09    | 1.09    |      | Rare 2   | 1.10    | 1.10    |      | Rare 2   | 1.19    | 1.19    |
|      | Rare 3   | 1.12    | 1.12    |      | Rare 3   | 1.11    | 1.11    |      | Rare 3   | 1.12    | 1.12    |      | Rare 3   | 1.20    | 1.20    |
|      | Rare 4   | 1.10    | 1.10    |      | Rare 4   | 1.09    | 1.09    |      | Rare 4   | 1.10    | 1.10    |      | Rare 4   | 1.19    | 1.19    |
|      | Rare 5   | 1.08    | 1.08    |      | Rare 5   | 1.07    | 1.07    |      | Rare 5   | 1.08    | 1.08    |      | Rare 5   | 1.17    | 1.17    |
|      | Rare 6   | 1.13    | 1.13    |      | Rare 6   | 1.12    | 1.12    |      | Rare 6   | 1.13    | 1.13    |      | Rare 6   | 1.19    | 1.19    |
|      | Rare 7   | 1.11    | 1.11    |      | Rare 7   | 1.10    | 1.10    |      | Rare 7   | 1.11    | 1.11    |      | Rare 7   | 1.17    | 1.17    |
|      | Rare 8   | 1.10    | 1.10    |      | Rare 8   | 1.09    | 1.09    |      | Rare 8   | 1.10    | 1.10    |      | Rare 8   | 1.14    | 1.14    |
|      | Rare 9   | 1.12    | 1.12    |      | Rare 9   | 1.11    | 1.11    |      | Rare 9   | 1.12    | 1.12    |      | Rare 9   | 1.20    | 1.20    |
|      | Rare 10  | 1.10    | 1.10    |      | Rare 10  | 1.09    | 1.09    |      | Rare 10  | 1.10    | 1.10    |      | Rare 10  | 1.19    | 1.19    |
|      | Rare 11  | 1.08    | 1.08    |      | Rare 11  | 1.07    | 1.07    |      | Rare 11  | 1.08    | 1.08    |      | Rare 11  | 1.17    | 1.17    |
|      | Rare 12  | 1.10    | 1.10    |      | Rare 12  | 1.09    | 1.09    |      | Rare 12  | 1.10    | 1.10    |      | Rare 12  | 1.22    | 1.22    |
|      | Rare 13  | 1.09    | 1.09    |      | Rare 13  | 1.08    | 1.08    |      | Rare 13  | 1.09    | 1.09    |      | Rare 13  | 1.21    | 1.21    |
|      | Rare 14  | 1.06    | 1.06    |      | Rare 14  | 1.05    | 1.05    |      | Rare 14  | 1.06    | 1.06    |      | Rare 14  | 1.20    | 1.20    |
|      | Freq 1   | 1.05    | 1.05    |      | Freq 1   | 1.04    | 1.04    |      | Freq 1   | 1.05    | 1.05    |      | Freq 1   | 1.14    | 1.14    |
|      | Freq 2   | 1.05    | 1.05    |      | Freq 2   | 1.04    | 1.04    |      | Freq 2   | 1.05    | 1.05    |      | Freq 2   | 1.14    | 1.14    |
|      | Freq 3   | 1.04    | 1.04    |      | Freq 3   | 1.03    | 1.03    |      | Freq 3   | 1.04    | 1.04    |      | Freq 3   | 1.13    | 1.13    |
|      | Freq 4   | 1.05    | 1.05    |      | Freq 4   | 1.04    | 1.04    |      | Freq 4   | 1.05    | 1.05    |      | Freq 4   | 1.13    | 1.13    |
|      | Freq 5   | 1.04    | 1.04    |      | Freq 5   | 1.03    | 1.03    |      | Freq 5   | 1.04    | 1.04    |      | Freq 5   | 1.13    | 1.13    |
|      | Freq 6   | 1.04    | 1.04    |      | Freq 6   | 1.03    | 1.03    |      | Freq 6   | 1.04    | 1.04    |      | Freq 6   | 1.14    | 1.14    |
|      | Perm 1   | 1.04    | 1.04    |      | Perm 1   | 1.03    | 1.03    |      | Perm 1   | 1.04    | 1.04    |      | Perm 1   | 1.13    | 1.13    |
|      | MAX.     | 1.13    | 1.13    |      | MAX.     | 1.12    | 1.12    |      | MAX.     | 1.13    | 1.13    |      | MAX.     | 1.22    | 1.22    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
| 108  | Rare 1   | 1.18    | 1.18    | 109  | Rare 1   | 1.18    | 1.18    | 110  | Rare 1   | 0.76    | 0.76    | 111  | Rare 1   | 0.75    | 0.75    |
|      | Rare 2   | 1.16    | 1.16    |      | Rare 2   | 1.17    | 1.17    |      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.75    | 0.75    |
|      | Rare 3   | 1.18    | 1.18    |      | Rare 3   | 1.18    | 1.18    |      | Rare 3   | 0.76    | 0.76    |      | Rare 3   | 0.75    | 0.75    |
|      | Rare 4   | 1.16    | 1.16    |      | Rare 4   | 1.17    | 1.17    |      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.75    | 0.75    |
|      | Rare 5   | 1.14    | 1.14    |      | Rare 5   | 1.15    | 1.15    |      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.74    | 0.74    |
|      | Rare 6   | 1.16    | 1.16    |      | Rare 6   | 1.17    | 1.17    |      | Rare 6   | 0.75    | 0.75    |      | Rare 6   | 0.75    | 0.75    |
|      | Rare 7   | 1.15    | 1.15    |      | Rare 7   | 1.15    | 1.15    |      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 0.74    | 0.74    |
|      | Rare 8   | 1.12    | 1.12    |      | Rare 8   | 1.12    | 1.12    |      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.74    | 0.74    |
|      | Rare 9   | 1.18    | 1.18    |      | Rare 9   | 1.18    | 1.18    |      | Rare 9   | 0.76    | 0.76    |      | Rare 9   | 0.75    | 0.75    |
|      | Rare 10  | 1.16    | 1.16    |      | Rare 10  | 1.17    | 1.17    |      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.75    | 0.75    |
|      | Rare 11  | 1.14    | 1.14    |      | Rare 11  | 1.15    | 1.15    |      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.74    | 0.74    |
|      | Rare 12  | 1.20    | 1.20    |      | Rare 12  | 1.20    | 1.20    |      | Rare 12  | 0.76    | 0.76    |      | Rare 12  | 0.75    | 0.75    |
|      | Rare 13  | 1.18    | 1.18    |      | Rare 13  | 1.19    | 1.19    |      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.75    | 0.75    |
|      | Rare 14  | 1.17    | 1.17    |      | Rare 14  | 1.18    | 1.18    |      | Rare 14  | 0.75    | 0.75    |      | Rare 14  | 0.74    | 0.74    |
|      | Freq 1   | 1.11    | 1.11    |      | Freq 1   | 1.12    | 1.12    |      | Freq 1   | 0.73    | 0.73    |      | Freq 1   | 0.72    | 0.72    |
|      | Freq 2   | 1.12    | 1.12    |      | Freq 2   | 1.12    | 1.12    |      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.71    | 0.71    |
|      | Freq 3   | 1.11    | 1.11    |      | Freq 3   | 1.11    | 1.11    |      | Freq 3   | 0.72    | 0.72    |      | Freq 3   | 0.71    | 0.71    |
|      | Freq 4   | 1.10    | 1.10    |      | Freq 4   | 1.11    | 1.11    |      | Freq 4   | 0.72    | 0.72    |      | Freq 4   | 0.71    | 0.71    |
|      | Freq 5   | 1.11    | 1.11    |      | Freq 5   | 1.11    | 1.11    |      | Freq 5   | 0.72    | 0.72    |      | Freq 5   | 0.71    | 0.71    |
|      | Freq 6   | 1.11    | 1.11    |      | Freq 6   | 1.12    | 1.12    |      | Freq 6   | 0.72    | 0.72    |      | Freq 6   | 0.71    | 0.71    |
|      | Perm 1   | 1.11    | 1.11    |      | Perm 1   | 1.11    | 1.11    |      | Perm 1   | 0.72    | 0.72    |      | Perm 1   | 0.71    | 0.71    |
|      | MAX.     | 1.20    | 1.20    |      | MAX.     | 1.20    | 1.20    |      | MAX.     | 0.76    | 0.76    |      | MAX.     | 0.75    | 0.75    |
| 112  | Rare 1   | 0.75    | 0.75    | 113  | Rare 1   | 0.76    | 0.76    | 114  | Rare 1   | 0.45    | 0.45    | 115  | Rare 1   | 0.45    | 0.45    |
|      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.76    | 0.76    |      | Rare 2   | 0.45    | 0.45    |      | Rare 2   | 0.45    | 0.45    |
|      | Rare 3   | 0.75    | 0.75    |      | Rare 3   | 0.76    | 0.76    |      | Rare 3   | 0.45    | 0.45    |      | Rare 3   | 0.45    | 0.45    |
|      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.76    | 0.76    |      | Rare 4   | 0.45    | 0.45    |      | Rare 4   | 0.45    | 0.45    |
|      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.75    | 0.75    |      | Rare 5   | 0.45    | 0.45    |      | Rare 5   | 0.45    | 0.45    |
|      | Rare 6   | 0.75    | 0.75    |      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 0.45    | 0.45    |      | Rare 6   | 0.45    | 0.45    |
|      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 0.45    | 0.45    |      | Rare 7   | 0.45    | 0.45    |
|      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.45    | 0.45    |      | Rare 8   | 0.45    | 0.45    |
|      | Rare 9   | 0.75    | 0.75    |      | Rare 9   | 0.76    | 0.76    |      | Rare 9   | 0.45    | 0.45    |      | Rare 9   | 0.45    | 0.45    |
|      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.76    | 0.76    |      | Rare 10  | 0.45    | 0.45    |      | Rare 10  | 0.45    | 0.45    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.75    | 0.75    |      | Rare 11  | 0.45    | 0.45    |      | Rare 11  | 0.45    | 0.45    |
|      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.76    | 0.76    |      | Rare 12  | 0.45    | 0.45    |      | Rare 12  | 0.45    | 0.45    |
|      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.76    | 0.76    |      | Rare 13  | 0.45    | 0.45    |      | Rare 13  | 0.45    | 0.45    |
|      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.75    | 0.75    |      | Rare 14  | 0.45    | 0.45    |      | Rare 14  | 0.45    | 0.45    |
|      | Freq 1   | 0.72    | 0.72    |      | Freq 1   | 0.73    | 0.73    |      | Freq 1   | 0.44    | 0.44    |      | Freq 1   | 0.44    | 0.44    |
|      | Freq 2   | 0.71    | 0.71    |      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.43    | 0.43    |      | Freq 2   | 0.43    | 0.43    |
|      | Freq 3   | 0.71    | 0.71    |      | Freq 3   | 0.72    | 0.72    |      | Freq 3   | 0.43    | 0.43    |      | Freq 3   | 0.43    | 0.43    |
|      | Freq 4   | 0.71    | 0.71    |      | Freq 4   | 0.72    | 0.72    |      | Freq 4   | 0.43    | 0.43    |      | Freq 4   | 0.43    | 0.43    |
|      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.72    | 0.72    |      | Freq 5   | 0.43    | 0.43    |      | Freq 5   | 0.43    | 0.43    |
|      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.72    | 0.72    |      | Freq 6   | 0.43    | 0.43    |      | Freq 6   | 0.43    | 0.43    |
|      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.72    | 0.72    |      | Perm 1   | 0.43    | 0.43    |      | Perm 1   | 0.43    | 0.43    |
|      | MAX.     | 0.75    | 0.75    |      | MAX.     | 0.76    | 0.76    |      | MAX.     | 0.45    | 0.45    |      | MAX.     | 0.45    | 0.45    |
| 116  | Rare 1   | 0.45    | 0.45    | 117  | Rare 1   | 0.75    | 0.75    | 118  | Rare 1   | 0.75    | 0.75    | 119  | Rare 1   | 0.75    | 0.75    |
|      | Rare 2   | 0.45    | 0.45    |      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.75    | 0.75    |
|      | Rare 3   | 0.45    | 0.45    |      | Rare 3   | 0.75    | 0.75    |      | Rare 3   | 0.75    | 0.75    |      | Rare 3   | 0.75    | 0.75    |
|      | Rare 4   | 0.45    | 0.45    |      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.75    | 0.75    |
|      | Rare 5   | 0.45    | 0.45    |      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.74    | 0.74    |
|      | Rare 6   | 0.45    | 0.45    |      | Rare 6   | 0.75    | 0.75    |      | Rare 6   | 0.75    | 0.75    |      | Rare 6   | 0.75    | 0.75    |
|      | Rare 7   | 0.45    | 0.45    |      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 0.75    | 0.75    |      | Rare 7   | 0.75    | 0.75    |
|      | Rare 8   | 0.45    | 0.45    |      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.74    | 0.74    |
|      | Rare 9   | 0.45    | 0.45    |      | Rare 9   | 0.75    | 0.75    |      | Rare 9   | 0.75    | 0.75    |      | Rare 9   | 0.75    | 0.75    |
|      | Rare 10  | 0.45    | 0.45    |      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.75    | 0.75    |
|      | Rare 11  | 0.45    | 0.45    |      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.74    | 0.74    |
|      | Rare 12  | 0.45    | 0.45    |      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.75    | 0.75    |
|      | Rare 13  | 0.45    | 0.45    |      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.75    | 0.75    |
|      | Rare 14  | 0.45    | 0.45    |      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.74    | 0.74    |
|      | Freq 1   | 0.44    | 0.44    |      | Freq 1   | 0.72    | 0.72    |      | Freq 1   | 0.72    | 0.72    |      | Freq 1   | 0.72    | 0.72    |
|      | Freq 2   | 0.43    | 0.43    |      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.71    | 0.71    |      | Freq 2   | 0.72    | 0.72    |
|      | Freq 3   | 0.43    | 0.43    |      | Freq 3   | 0.71    | 0.71    |      | Freq 3   | 0.71    | 0.71    |      | Freq 3   | 0.71    | 0.71    |
|      | Freq 4   | 0.43    | 0.43    |      | Freq 4   | 0.71    | 0.71    |      | Freq 4   | 0.71    | 0.71    |      | Freq 4   | 0.71    | 0.71    |
|      | Freq 5   | 0.43    | 0.43    |      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.71    | 0.71    |
|      | Freq 6   | 0.43    | 0.43    |      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.71    | 0.71    |
|      | Perm 1   | 0.43    | 0.43    |      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.71    | 0.71    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
| MAX. |          | 0.45    | 0.45    | MAX. |          | 0.75    | 0.75    | MAX. |          | 0.75    | 0.75    | MAX. |          | 0.75    | 0.75    |
| 120  | Rare 1   | 0.76    | 0.76    | 121  | Rare 1   | 1.10    | 1.10    | 122  | Rare 1   | 1.08    | 1.08    | 123  | Rare 1   | 1.09    | 1.09    |
|      | Rare 2   | 0.76    | 0.76    |      | Rare 2   | 1.09    | 1.09    |      | Rare 2   | 1.07    | 1.07    |      | Rare 2   | 1.08    | 1.08    |
|      | Rare 3   | 0.76    | 0.76    |      | Rare 3   | 1.10    | 1.10    |      | Rare 3   | 1.08    | 1.08    |      | Rare 3   | 1.09    | 1.09    |
|      | Rare 4   | 0.76    | 0.76    |      | Rare 4   | 1.09    | 1.09    |      | Rare 4   | 1.07    | 1.07    |      | Rare 4   | 1.08    | 1.08    |
|      | Rare 5   | 0.75    | 0.75    |      | Rare 5   | 1.07    | 1.07    |      | Rare 5   | 1.05    | 1.05    |      | Rare 5   | 1.05    | 1.05    |
|      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 1.11    | 1.11    |      | Rare 6   | 1.10    | 1.10    |      | Rare 6   | 1.10    | 1.10    |
|      | Rare 7   | 0.76    | 0.76    |      | Rare 7   | 1.10    | 1.10    |      | Rare 7   | 1.08    | 1.08    |      | Rare 7   | 1.09    | 1.09    |
|      | Rare 8   | 0.75    | 0.75    |      | Rare 8   | 1.09    | 1.09    |      | Rare 8   | 1.07    | 1.07    |      | Rare 8   | 1.08    | 1.08    |
|      | Rare 9   | 0.76    | 0.76    |      | Rare 9   | 1.10    | 1.10    |      | Rare 9   | 1.08    | 1.08    |      | Rare 9   | 1.09    | 1.09    |
|      | Rare 10  | 0.76    | 0.76    |      | Rare 10  | 1.09    | 1.09    |      | Rare 10  | 1.07    | 1.07    |      | Rare 10  | 1.08    | 1.08    |
|      | Rare 11  | 0.75    | 0.75    |      | Rare 11  | 1.07    | 1.07    |      | Rare 11  | 1.05    | 1.05    |      | Rare 11  | 1.05    | 1.05    |
|      | Rare 12  | 0.76    | 0.76    |      | Rare 12  | 1.09    | 1.09    |      | Rare 12  | 1.07    | 1.07    |      | Rare 12  | 1.08    | 1.08    |
|      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 1.07    | 1.07    |      | Rare 13  | 1.06    | 1.06    |      | Rare 13  | 1.06    | 1.06    |
|      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 1.05    | 1.05    |      | Rare 14  | 1.03    | 1.03    |      | Rare 14  | 1.03    | 1.03    |
|      | Freq 1   | 0.73    | 0.73    |      | Freq 1   | 1.04    | 1.04    |      | Freq 1   | 1.02    | 1.02    |      | Freq 1   | 1.03    | 1.03    |
|      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 1.04    | 1.04    |      | Freq 2   | 1.02    | 1.02    |      | Freq 2   | 1.03    | 1.03    |
|      | Freq 3   | 0.72    | 0.72    |      | Freq 3   | 1.03    | 1.03    |      | Freq 3   | 1.01    | 1.01    |      | Freq 3   | 1.02    | 1.02    |
|      | Freq 4   | 0.72    | 0.72    |      | Freq 4   | 1.03    | 1.03    |      | Freq 4   | 1.02    | 1.02    |      | Freq 4   | 1.02    | 1.02    |
|      | Freq 5   | 0.72    | 0.72    |      | Freq 5   | 1.03    | 1.03    |      | Freq 5   | 1.01    | 1.01    |      | Freq 5   | 1.02    | 1.02    |
|      | Freq 6   | 0.72    | 0.72    |      | Freq 6   | 1.03    | 1.03    |      | Freq 6   | 1.01    | 1.01    |      | Freq 6   | 1.01    | 1.01    |
|      | Perm 1   | 0.72    | 0.72    |      | Perm 1   | 1.03    | 1.03    |      | Perm 1   | 1.01    | 1.01    |      | Perm 1   | 1.02    | 1.02    |
|      | MAX.     | 0.76    | 0.76    |      | MAX.     | 1.11    | 1.11    |      | MAX.     | 1.10    | 1.10    |      | MAX.     | 1.10    | 1.10    |
| 124  | Rare 1   | 1.19    | 1.19    | 125  | Rare 1   | 1.17    | 1.17    | 126  | Rare 1   | 1.18    | 1.18    | 127  | Rare 1   | 0.76    | 0.76    |
|      | Rare 2   | 1.17    | 1.17    |      | Rare 2   | 1.16    | 1.16    |      | Rare 2   | 1.17    | 1.17    |      | Rare 2   | 0.76    | 0.76    |
|      | Rare 3   | 1.19    | 1.19    |      | Rare 3   | 1.17    | 1.17    |      | Rare 3   | 1.18    | 1.18    |      | Rare 3   | 0.76    | 0.76    |
|      | Rare 4   | 1.17    | 1.17    |      | Rare 4   | 1.16    | 1.16    |      | Rare 4   | 1.17    | 1.17    |      | Rare 4   | 0.76    | 0.76    |
|      | Rare 5   | 1.15    | 1.15    |      | Rare 5   | 1.14    | 1.14    |      | Rare 5   | 1.15    | 1.15    |      | Rare 5   | 0.75    | 0.75    |
|      | Rare 6   | 1.17    | 1.17    |      | Rare 6   | 1.15    | 1.15    |      | Rare 6   | 1.16    | 1.16    |      | Rare 6   | 0.76    | 0.76    |
|      | Rare 7   | 1.16    | 1.16    |      | Rare 7   | 1.14    | 1.14    |      | Rare 7   | 1.15    | 1.15    |      | Rare 7   | 0.76    | 0.76    |
|      | Rare 8   | 1.12    | 1.12    |      | Rare 8   | 1.11    | 1.11    |      | Rare 8   | 1.11    | 1.11    |      | Rare 8   | 0.75    | 0.75    |
|      | Rare 9   | 1.19    | 1.19    |      | Rare 9   | 1.17    | 1.17    |      | Rare 9   | 1.18    | 1.18    |      | Rare 9   | 0.76    | 0.76    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 10  | 1.17    | 1.17    |      | Rare 10  | 1.15    | 1.15    |      | Rare 10  | 1.17    | 1.17    |      | Rare 10  | 0.76    | 0.76    |
|      | Rare 11  | 1.15    | 1.15    |      | Rare 11  | 1.13    | 1.13    |      | Rare 11  | 1.14    | 1.14    |      | Rare 11  | 0.75    | 0.75    |
|      | Rare 12  | 1.21    | 1.21    |      | Rare 12  | 1.19    | 1.19    |      | Rare 12  | 1.20    | 1.20    |      | Rare 12  | 0.77    | 0.77    |
|      | Rare 13  | 1.19    | 1.19    |      | Rare 13  | 1.17    | 1.17    |      | Rare 13  | 1.19    | 1.19    |      | Rare 13  | 0.76    | 0.76    |
|      | Rare 14  | 1.18    | 1.18    |      | Rare 14  | 1.16    | 1.16    |      | Rare 14  | 1.18    | 1.18    |      | Rare 14  | 0.75    | 0.75    |
|      | Freq 1   | 1.12    | 1.12    |      | Freq 1   | 1.11    | 1.11    |      | Freq 1   | 1.12    | 1.12    |      | Freq 1   | 0.73    | 0.73    |
|      | Freq 2   | 1.12    | 1.12    |      | Freq 2   | 1.11    | 1.11    |      | Freq 2   | 1.12    | 1.12    |      | Freq 2   | 0.72    | 0.72    |
|      | Freq 3   | 1.12    | 1.12    |      | Freq 3   | 1.10    | 1.10    |      | Freq 3   | 1.11    | 1.11    |      | Freq 3   | 0.72    | 0.72    |
|      | Freq 4   | 1.11    | 1.11    |      | Freq 4   | 1.09    | 1.09    |      | Freq 4   | 1.10    | 1.10    |      | Freq 4   | 0.72    | 0.72    |
|      | Freq 5   | 1.11    | 1.11    |      | Freq 5   | 1.10    | 1.10    |      | Freq 5   | 1.11    | 1.11    |      | Freq 5   | 0.72    | 0.72    |
|      | Freq 6   | 1.12    | 1.12    |      | Freq 6   | 1.10    | 1.10    |      | Freq 6   | 1.11    | 1.11    |      | Freq 6   | 0.72    | 0.72    |
|      | Perm 1   | 1.11    | 1.11    |      | Perm 1   | 1.10    | 1.10    |      | Perm 1   | 1.11    | 1.11    |      | Perm 1   | 0.72    | 0.72    |
|      | MAX.     | 1.21    | 1.21    |      | MAX.     | 1.19    | 1.19    |      | MAX.     | 1.20    | 1.20    |      | MAX.     | 0.77    | 0.77    |
| 128  | Rare 1   | 0.75    | 0.75    | 129  | Rare 1   | 0.75    | 0.75    | 130  | Rare 1   | 0.74    | 0.74    | 131  | Rare 1   | 0.45    | 0.45    |
|      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.74    | 0.74    |      | Rare 2   | 0.74    | 0.74    |      | Rare 2   | 0.45    | 0.45    |
|      | Rare 3   | 0.75    | 0.75    |      | Rare 3   | 0.75    | 0.75    |      | Rare 3   | 0.74    | 0.74    |      | Rare 3   | 0.45    | 0.45    |
|      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.74    | 0.74    |      | Rare 4   | 0.74    | 0.74    |      | Rare 4   | 0.45    | 0.45    |
|      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.73    | 0.73    |      | Rare 5   | 0.45    | 0.45    |
|      | Rare 6   | 0.75    | 0.75    |      | Rare 6   | 0.75    | 0.75    |      | Rare 6   | 0.74    | 0.74    |      | Rare 6   | 0.45    | 0.45    |
|      | Rare 7   | 0.74    | 0.74    |      | Rare 7   | 0.74    | 0.74    |      | Rare 7   | 0.73    | 0.73    |      | Rare 7   | 0.45    | 0.45    |
|      | Rare 8   | 0.74    | 0.74    |      | Rare 8   | 0.73    | 0.73    |      | Rare 8   | 0.72    | 0.72    |      | Rare 8   | 0.45    | 0.45    |
|      | Rare 9   | 0.75    | 0.75    |      | Rare 9   | 0.75    | 0.75    |      | Rare 9   | 0.74    | 0.74    |      | Rare 9   | 0.45    | 0.45    |
|      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.74    | 0.74    |      | Rare 10  | 0.73    | 0.73    |      | Rare 10  | 0.45    | 0.45    |
|      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.73    | 0.73    |      | Rare 11  | 0.45    | 0.45    |
|      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.74    | 0.74    |      | Rare 12  | 0.45    | 0.45    |
|      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.74    | 0.74    |      | Rare 13  | 0.45    | 0.45    |
|      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.73    | 0.73    |      | Rare 14  | 0.45    | 0.45    |
|      | Freq 1   | 0.72    | 0.72    |      | Freq 1   | 0.72    | 0.72    |      | Freq 1   | 0.71    | 0.71    |      | Freq 1   | 0.44    | 0.44    |
|      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.71    | 0.71    |      | Freq 2   | 0.70    | 0.70    |      | Freq 2   | 0.43    | 0.43    |
|      | Freq 3   | 0.71    | 0.71    |      | Freq 3   | 0.71    | 0.71    |      | Freq 3   | 0.70    | 0.70    |      | Freq 3   | 0.43    | 0.43    |
|      | Freq 4   | 0.71    | 0.71    |      | Freq 4   | 0.71    | 0.71    |      | Freq 4   | 0.70    | 0.70    |      | Freq 4   | 0.43    | 0.43    |
|      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.70    | 0.70    |      | Freq 5   | 0.43    | 0.43    |
|      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.71    | 0.71    |      | Freq 6   | 0.70    | 0.70    |      | Freq 6   | 0.43    | 0.43    |



CEDIMENTI ELASTICI ED EDOMETRICI

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.70    | 0.70    |      | Perm 1   | 0.43    | 0.43    |
|      | MAX.     | 0.75    | 0.75    |      | MAX.     | 0.75    | 0.75    |      | MAX.     | 0.74    | 0.74    |      | MAX.     | 0.45    | 0.45    |
| 132  | Rare 1   | 0.44    | 0.44    | 133  | Rare 1   | 0.43    | 0.43    | 134  | Rare 1   | 0.76    | 0.76    | 135  | Rare 1   | 0.75    | 0.75    |
|      | Rare 2   | 0.44    | 0.44    |      | Rare 2   | 0.43    | 0.43    |      | Rare 2   | 0.76    | 0.76    |      | Rare 2   | 0.74    | 0.74    |
|      | Rare 3   | 0.44    | 0.44    |      | Rare 3   | 0.43    | 0.43    |      | Rare 3   | 0.76    | 0.76    |      | Rare 3   | 0.75    | 0.75    |
|      | Rare 4   | 0.44    | 0.44    |      | Rare 4   | 0.43    | 0.43    |      | Rare 4   | 0.76    | 0.76    |      | Rare 4   | 0.74    | 0.74    |
|      | Rare 5   | 0.44    | 0.44    |      | Rare 5   | 0.43    | 0.43    |      | Rare 5   | 0.75    | 0.75    |      | Rare 5   | 0.74    | 0.74    |
|      | Rare 6   | 0.44    | 0.44    |      | Rare 6   | 0.43    | 0.43    |      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 0.75    | 0.75    |
|      | Rare 7   | 0.44    | 0.44    |      | Rare 7   | 0.43    | 0.43    |      | Rare 7   | 0.76    | 0.76    |      | Rare 7   | 0.75    | 0.75    |
|      | Rare 8   | 0.44    | 0.44    |      | Rare 8   | 0.43    | 0.43    |      | Rare 8   | 0.75    | 0.75    |      | Rare 8   | 0.74    | 0.74    |
|      | Rare 9   | 0.44    | 0.44    |      | Rare 9   | 0.43    | 0.43    |      | Rare 9   | 0.76    | 0.76    |      | Rare 9   | 0.75    | 0.75    |
|      | Rare 10  | 0.44    | 0.44    |      | Rare 10  | 0.43    | 0.43    |      | Rare 10  | 0.76    | 0.76    |      | Rare 10  | 0.74    | 0.74    |
|      | Rare 11  | 0.44    | 0.44    |      | Rare 11  | 0.43    | 0.43    |      | Rare 11  | 0.75    | 0.75    |      | Rare 11  | 0.74    | 0.74    |
|      | Rare 12  | 0.44    | 0.44    |      | Rare 12  | 0.43    | 0.43    |      | Rare 12  | 0.76    | 0.76    |      | Rare 12  | 0.75    | 0.75    |
|      | Rare 13  | 0.44    | 0.44    |      | Rare 13  | 0.43    | 0.43    |      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.74    | 0.74    |
|      | Rare 14  | 0.44    | 0.44    |      | Rare 14  | 0.43    | 0.43    |      | Rare 14  | 0.75    | 0.75    |      | Rare 14  | 0.73    | 0.73    |
|      | Freq 1   | 0.43    | 0.43    |      | Freq 1   | 0.42    | 0.42    |      | Freq 1   | 0.73    | 0.73    |      | Freq 1   | 0.72    | 0.72    |
|      | Freq 2   | 0.42    | 0.42    |      | Freq 2   | 0.41    | 0.41    |      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.71    | 0.71    |
|      | Freq 3   | 0.42    | 0.42    |      | Freq 3   | 0.41    | 0.41    |      | Freq 3   | 0.72    | 0.72    |      | Freq 3   | 0.71    | 0.71    |
|      | Freq 4   | 0.42    | 0.42    |      | Freq 4   | 0.41    | 0.41    |      | Freq 4   | 0.72    | 0.72    |      | Freq 4   | 0.71    | 0.71    |
|      | Freq 5   | 0.42    | 0.42    |      | Freq 5   | 0.41    | 0.41    |      | Freq 5   | 0.72    | 0.72    |      | Freq 5   | 0.71    | 0.71    |
|      | Freq 6   | 0.42    | 0.42    |      | Freq 6   | 0.41    | 0.41    |      | Freq 6   | 0.72    | 0.72    |      | Freq 6   | 0.71    | 0.71    |
|      | Perm 1   | 0.42    | 0.42    |      | Perm 1   | 0.41    | 0.41    |      | Perm 1   | 0.72    | 0.72    |      | Perm 1   | 0.71    | 0.71    |
|      | MAX.     | 0.44    | 0.44    |      | MAX.     | 0.43    | 0.43    |      | MAX.     | 0.76    | 0.76    |      | MAX.     | 0.75    | 0.75    |
| 136  | Rare 1   | 0.74    | 0.74    | 137  | Rare 1   | 0.73    | 0.73    | 138  | Rare 1   | 1.09    | 1.09    | 139  | Rare 1   | 1.07    | 1.07    |
|      | Rare 2   | 0.74    | 0.74    |      | Rare 2   | 0.72    | 0.72    |      | Rare 2   | 1.08    | 1.08    |      | Rare 2   | 1.05    | 1.05    |
|      | Rare 3   | 0.74    | 0.74    |      | Rare 3   | 0.73    | 0.73    |      | Rare 3   | 1.09    | 1.09    |      | Rare 3   | 1.07    | 1.07    |
|      | Rare 4   | 0.74    | 0.74    |      | Rare 4   | 0.72    | 0.72    |      | Rare 4   | 1.08    | 1.08    |      | Rare 4   | 1.05    | 1.05    |
|      | Rare 5   | 0.73    | 0.73    |      | Rare 5   | 0.72    | 0.72    |      | Rare 5   | 1.06    | 1.06    |      | Rare 5   | 1.03    | 1.03    |
|      | Rare 6   | 0.74    | 0.74    |      | Rare 6   | 0.73    | 0.73    |      | Rare 6   | 1.10    | 1.10    |      | Rare 6   | 1.08    | 1.08    |
|      | Rare 7   | 0.74    | 0.74    |      | Rare 7   | 0.73    | 0.73    |      | Rare 7   | 1.09    | 1.09    |      | Rare 7   | 1.07    | 1.07    |
|      | Rare 8   | 0.73    | 0.73    |      | Rare 8   | 0.72    | 0.72    |      | Rare 8   | 1.08    | 1.08    |      | Rare 8   | 1.06    | 1.06    |

CEDIMENTI ELASTICI ED EDOMETRICI

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 9   | 0.74    | 0.74    |      | Rare 9   | 0.73    | 0.73    |      | Rare 9   | 1.09    | 1.09    |      | Rare 9   | 1.07    | 1.07    |
|      | Rare 10  | 0.74    | 0.74    |      | Rare 10  | 0.72    | 0.72    |      | Rare 10  | 1.07    | 1.07    |      | Rare 10  | 1.05    | 1.05    |
|      | Rare 11  | 0.73    | 0.73    |      | Rare 11  | 0.72    | 0.72    |      | Rare 11  | 1.05    | 1.05    |      | Rare 11  | 1.03    | 1.03    |
|      | Rare 12  | 0.74    | 0.74    |      | Rare 12  | 0.73    | 0.73    |      | Rare 12  | 1.07    | 1.07    |      | Rare 12  | 1.05    | 1.05    |
|      | Rare 13  | 0.73    | 0.73    |      | Rare 13  | 0.72    | 0.72    |      | Rare 13  | 1.06    | 1.06    |      | Rare 13  | 1.04    | 1.04    |
|      | Rare 14  | 0.73    | 0.73    |      | Rare 14  | 0.71    | 0.71    |      | Rare 14  | 1.03    | 1.03    |      | Rare 14  | 1.01    | 1.01    |
|      | Freq 1   | 0.71    | 0.71    |      | Freq 1   | 0.70    | 0.70    |      | Freq 1   | 1.03    | 1.03    |      | Freq 1   | 1.01    | 1.01    |
|      | Freq 2   | 0.71    | 0.71    |      | Freq 2   | 0.69    | 0.69    |      | Freq 2   | 1.03    | 1.03    |      | Freq 2   | 1.01    | 1.01    |
|      | Freq 3   | 0.70    | 0.70    |      | Freq 3   | 0.69    | 0.69    |      | Freq 3   | 1.02    | 1.02    |      | Freq 3   | 1.00    | 1.00    |
|      | Freq 4   | 0.70    | 0.70    |      | Freq 4   | 0.69    | 0.69    |      | Freq 4   | 1.02    | 1.02    |      | Freq 4   | 1.00    | 1.00    |
|      | Freq 5   | 0.70    | 0.70    |      | Freq 5   | 0.69    | 0.69    |      | Freq 5   | 1.02    | 1.02    |      | Freq 5   | 1.00    | 1.00    |
|      | Freq 6   | 0.70    | 0.70    |      | Freq 6   | 0.69    | 0.69    |      | Freq 6   | 1.01    | 1.01    |      | Freq 6   | 0.99    | 0.99    |
|      | Perm 1   | 0.70    | 0.70    |      | Perm 1   | 0.69    | 0.69    |      | Perm 1   | 1.02    | 1.02    |      | Perm 1   | 1.00    | 1.00    |
|      | MAX.     | 0.74    | 0.74    |      | MAX.     | 0.73    | 0.73    |      | MAX.     | 1.10    | 1.10    |      | MAX.     | 1.08    | 1.08    |
| 140  | Rare 1   | 1.07    | 1.07    | 141  | Rare 1   | 1.17    | 1.17    | 142  | Rare 1   | 1.16    | 1.16    | 143  | Rare 1   | 1.13    | 1.13    |
|      | Rare 2   | 1.06    | 1.06    |      | Rare 2   | 1.16    | 1.16    |      | Rare 2   | 1.15    | 1.15    |      | Rare 2   | 1.12    | 1.12    |
|      | Rare 3   | 1.07    | 1.07    |      | Rare 3   | 1.17    | 1.17    |      | Rare 3   | 1.16    | 1.16    |      | Rare 3   | 1.13    | 1.13    |
|      | Rare 4   | 1.06    | 1.06    |      | Rare 4   | 1.16    | 1.16    |      | Rare 4   | 1.15    | 1.15    |      | Rare 4   | 1.12    | 1.12    |
|      | Rare 5   | 1.04    | 1.04    |      | Rare 5   | 1.14    | 1.14    |      | Rare 5   | 1.13    | 1.13    |      | Rare 5   | 1.11    | 1.11    |
|      | Rare 6   | 1.09    | 1.09    |      | Rare 6   | 1.15    | 1.15    |      | Rare 6   | 1.13    | 1.13    |      | Rare 6   | 1.11    | 1.11    |
|      | Rare 7   | 1.07    | 1.07    |      | Rare 7   | 1.13    | 1.13    |      | Rare 7   | 1.12    | 1.12    |      | Rare 7   | 1.09    | 1.09    |
|      | Rare 8   | 1.06    | 1.06    |      | Rare 8   | 1.10    | 1.10    |      | Rare 8   | 1.09    | 1.09    |      | Rare 8   | 1.06    | 1.06    |
|      | Rare 9   | 1.07    | 1.07    |      | Rare 9   | 1.17    | 1.17    |      | Rare 9   | 1.16    | 1.16    |      | Rare 9   | 1.13    | 1.13    |
|      | Rare 10  | 1.05    | 1.05    |      | Rare 10  | 1.16    | 1.16    |      | Rare 10  | 1.14    | 1.14    |      | Rare 10  | 1.12    | 1.12    |
|      | Rare 11  | 1.03    | 1.03    |      | Rare 11  | 1.13    | 1.13    |      | Rare 11  | 1.12    | 1.12    |      | Rare 11  | 1.10    | 1.10    |
|      | Rare 12  | 1.05    | 1.05    |      | Rare 12  | 1.19    | 1.19    |      | Rare 12  | 1.18    | 1.18    |      | Rare 12  | 1.16    | 1.16    |
|      | Rare 13  | 1.04    | 1.04    |      | Rare 13  | 1.18    | 1.18    |      | Rare 13  | 1.17    | 1.17    |      | Rare 13  | 1.15    | 1.15    |
|      | Rare 14  | 1.01    | 1.01    |      | Rare 14  | 1.17    | 1.17    |      | Rare 14  | 1.17    | 1.17    |      | Rare 14  | 1.15    | 1.15    |
|      | Freq 1   | 1.01    | 1.01    |      | Freq 1   | 1.11    | 1.11    |      | Freq 1   | 1.10    | 1.10    |      | Freq 1   | 1.08    | 1.08    |
|      | Freq 2   | 1.01    | 1.01    |      | Freq 2   | 1.11    | 1.11    |      | Freq 2   | 1.10    | 1.10    |      | Freq 2   | 1.08    | 1.08    |
|      | Freq 3   | 1.00    | 1.00    |      | Freq 3   | 1.10    | 1.10    |      | Freq 3   | 1.09    | 1.09    |      | Freq 3   | 1.07    | 1.07    |
|      | Freq 4   | 1.01    | 1.01    |      | Freq 4   | 1.09    | 1.09    |      | Freq 4   | 1.08    | 1.08    |      | Freq 4   | 1.06    | 1.06    |
|      | Freq 5   | 1.00    | 1.00    |      | Freq 5   | 1.10    | 1.10    |      | Freq 5   | 1.09    | 1.09    |      | Freq 5   | 1.07    | 1.07    |

**CEDIMENTI ELASTICI ED EDMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 6   | 1.00    | 1.00    |      | Freq 6   | 1.11    | 1.11    |      | Freq 6   | 1.10    | 1.10    |      | Freq 6   | 1.08    | 1.08    |
|      | Perm 1   | 1.00    | 1.00    |      | Perm 1   | 1.10    | 1.10    |      | Perm 1   | 1.09    | 1.09    |      | Perm 1   | 1.07    | 1.07    |
|      | MAX.     | 1.09    | 1.09    |      | MAX.     | 1.19    | 1.19    |      | MAX.     | 1.18    | 1.18    |      | MAX.     | 1.16    | 1.16    |
| 144  | Rare 1   | 0.75    | 0.75    | 145  | Rare 1   | 0.86    | 0.86    | 146  | Rare 1   | 1.04    | 1.04    | 147  | Rare 1   | 1.04    | 1.04    |
|      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.85    | 0.85    |      | Rare 2   | 1.03    | 1.03    |      | Rare 2   | 1.03    | 1.03    |
|      | Rare 3   | 0.75    | 0.75    |      | Rare 3   | 0.86    | 0.86    |      | Rare 3   | 1.04    | 1.04    |      | Rare 3   | 1.04    | 1.04    |
|      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.85    | 0.85    |      | Rare 4   | 1.04    | 1.04    |      | Rare 4   | 1.03    | 1.03    |
|      | Rare 5   | 0.74    | 0.74    |      | Rare 5   | 0.84    | 0.84    |      | Rare 5   | 1.02    | 1.02    |      | Rare 5   | 1.01    | 1.01    |
|      | Rare 6   | 0.75    | 0.75    |      | Rare 6   | 0.85    | 0.85    |      | Rare 6   | 1.03    | 1.03    |      | Rare 6   | 1.02    | 1.02    |
|      | Rare 7   | 0.74    | 0.74    |      | Rare 7   | 0.84    | 0.84    |      | Rare 7   | 1.02    | 1.02    |      | Rare 7   | 1.01    | 1.01    |
|      | Rare 8   | 0.73    | 0.73    |      | Rare 8   | 0.83    | 0.83    |      | Rare 8   | 1.00    | 1.00    |      | Rare 8   | 0.99    | 0.99    |
|      | Rare 9   | 0.75    | 0.75    |      | Rare 9   | 0.86    | 0.86    |      | Rare 9   | 1.04    | 1.04    |      | Rare 9   | 1.03    | 1.03    |
|      | Rare 10  | 0.75    | 0.75    |      | Rare 10  | 0.85    | 0.85    |      | Rare 10  | 1.03    | 1.03    |      | Rare 10  | 1.02    | 1.02    |
|      | Rare 11  | 0.74    | 0.74    |      | Rare 11  | 0.84    | 0.84    |      | Rare 11  | 1.02    | 1.02    |      | Rare 11  | 1.01    | 1.01    |
|      | Rare 12  | 0.76    | 0.76    |      | Rare 12  | 0.86    | 0.86    |      | Rare 12  | 1.06    | 1.06    |      | Rare 12  | 1.05    | 1.05    |
|      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.86    | 0.86    |      | Rare 13  | 1.05    | 1.05    |      | Rare 13  | 1.04    | 1.04    |
|      | Rare 14  | 0.75    | 0.75    |      | Rare 14  | 0.85    | 0.85    |      | Rare 14  | 1.04    | 1.04    |      | Rare 14  | 1.04    | 1.04    |
|      | Freq 1   | 0.72    | 0.72    |      | Freq 1   | 0.82    | 0.82    |      | Freq 1   | 1.00    | 1.00    |      | Freq 1   | 0.99    | 0.99    |
|      | Freq 2   | 0.72    | 0.72    |      | Freq 2   | 0.82    | 0.82    |      | Freq 2   | 1.00    | 1.00    |      | Freq 2   | 0.99    | 0.99    |
|      | Freq 3   | 0.72    | 0.72    |      | Freq 3   | 0.81    | 0.81    |      | Freq 3   | 0.99    | 0.99    |      | Freq 3   | 0.98    | 0.98    |
|      | Freq 4   | 0.71    | 0.71    |      | Freq 4   | 0.81    | 0.81    |      | Freq 4   | 0.99    | 0.99    |      | Freq 4   | 0.98    | 0.98    |
|      | Freq 5   | 0.71    | 0.71    |      | Freq 5   | 0.81    | 0.81    |      | Freq 5   | 0.99    | 0.99    |      | Freq 5   | 0.98    | 0.98    |
|      | Freq 6   | 0.72    | 0.72    |      | Freq 6   | 0.82    | 0.82    |      | Freq 6   | 0.99    | 0.99    |      | Freq 6   | 0.99    | 0.99    |
|      | Perm 1   | 0.71    | 0.71    |      | Perm 1   | 0.81    | 0.81    |      | Perm 1   | 0.99    | 0.99    |      | Perm 1   | 0.98    | 0.98    |
|      | MAX.     | 0.76    | 0.76    |      | MAX.     | 0.86    | 0.86    |      | MAX.     | 1.06    | 1.06    |      | MAX.     | 1.05    | 1.05    |
| 148  | Rare 1   | 0.46    | 0.46    | 149  | Rare 1   | 0.61    | 0.61    | 150  | Rare 1   | 0.89    | 0.89    | 151  | Rare 1   | 0.73    | 0.73    |
|      | Rare 2   | 0.46    | 0.46    |      | Rare 2   | 0.61    | 0.61    |      | Rare 2   | 0.88    | 0.88    |      | Rare 2   | 0.73    | 0.73    |
|      | Rare 3   | 0.46    | 0.46    |      | Rare 3   | 0.61    | 0.61    |      | Rare 3   | 0.89    | 0.89    |      | Rare 3   | 0.73    | 0.73    |
|      | Rare 4   | 0.46    | 0.46    |      | Rare 4   | 0.61    | 0.61    |      | Rare 4   | 0.88    | 0.88    |      | Rare 4   | 0.73    | 0.73    |
|      | Rare 5   | 0.46    | 0.46    |      | Rare 5   | 0.61    | 0.61    |      | Rare 5   | 0.87    | 0.87    |      | Rare 5   | 0.72    | 0.72    |
|      | Rare 6   | 0.46    | 0.46    |      | Rare 6   | 0.61    | 0.61    |      | Rare 6   | 0.89    | 0.89    |      | Rare 6   | 0.74    | 0.74    |
|      | Rare 7   | 0.46    | 0.46    |      | Rare 7   | 0.61    | 0.61    |      | Rare 7   | 0.88    | 0.88    |      | Rare 7   | 0.73    | 0.73    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 8   | 0.46    | 0.46    |      | Rare 8   | 0.61    | 0.61    |      | Rare 8   | 0.87    | 0.87    |      | Rare 8   | 0.73    | 0.73    |
|      | Rare 9   | 0.46    | 0.46    |      | Rare 9   | 0.61    | 0.61    |      | Rare 9   | 0.88    | 0.88    |      | Rare 9   | 0.73    | 0.73    |
|      | Rare 10  | 0.46    | 0.46    |      | Rare 10  | 0.61    | 0.61    |      | Rare 10  | 0.88    | 0.88    |      | Rare 10  | 0.73    | 0.73    |
|      | Rare 11  | 0.46    | 0.46    |      | Rare 11  | 0.61    | 0.61    |      | Rare 11  | 0.87    | 0.87    |      | Rare 11  | 0.72    | 0.72    |
|      | Rare 12  | 0.46    | 0.46    |      | Rare 12  | 0.61    | 0.61    |      | Rare 12  | 0.89    | 0.89    |      | Rare 12  | 0.73    | 0.73    |
|      | Rare 13  | 0.46    | 0.46    |      | Rare 13  | 0.61    | 0.61    |      | Rare 13  | 0.88    | 0.88    |      | Rare 13  | 0.72    | 0.72    |
|      | Rare 14  | 0.46    | 0.46    |      | Rare 14  | 0.61    | 0.61    |      | Rare 14  | 0.87    | 0.87    |      | Rare 14  | 0.71    | 0.71    |
|      | Freq 1   | 0.45    | 0.45    |      | Freq 1   | 0.60    | 0.60    |      | Freq 1   | 0.85    | 0.85    |      | Freq 1   | 0.70    | 0.70    |
|      | Freq 2   | 0.44    | 0.44    |      | Freq 2   | 0.59    | 0.59    |      | Freq 2   | 0.85    | 0.85    |      | Freq 2   | 0.70    | 0.70    |
|      | Freq 3   | 0.44    | 0.44    |      | Freq 3   | 0.59    | 0.59    |      | Freq 3   | 0.84    | 0.84    |      | Freq 3   | 0.70    | 0.70    |
|      | Freq 4   | 0.44    | 0.44    |      | Freq 4   | 0.59    | 0.59    |      | Freq 4   | 0.84    | 0.84    |      | Freq 4   | 0.70    | 0.70    |
|      | Freq 5   | 0.44    | 0.44    |      | Freq 5   | 0.59    | 0.59    |      | Freq 5   | 0.84    | 0.84    |      | Freq 5   | 0.69    | 0.69    |
|      | Freq 6   | 0.44    | 0.44    |      | Freq 6   | 0.59    | 0.59    |      | Freq 6   | 0.84    | 0.84    |      | Freq 6   | 0.69    | 0.69    |
|      | Perm 1   | 0.44    | 0.44    |      | Perm 1   | 0.59    | 0.59    |      | Perm 1   | 0.84    | 0.84    |      | Perm 1   | 0.70    | 0.70    |
|      | MAX.     | 0.46    | 0.46    |      | MAX.     | 0.61    | 0.61    |      | MAX.     | 0.89    | 0.89    |      | MAX.     | 0.74    | 0.74    |
| 152  | Rare 1   | 0.82    | 0.82    | 153  | Rare 1   | 0.96    | 0.96    | 154  | Rare 1   | 0.94    | 0.94    | 155  | Rare 1   | 1.03    | 1.03    |
|      | Rare 2   | 0.81    | 0.81    |      | Rare 2   | 0.96    | 0.96    |      | Rare 2   | 0.93    | 0.93    |      | Rare 2   | 1.02    | 1.02    |
|      | Rare 3   | 0.82    | 0.82    |      | Rare 3   | 0.97    | 0.97    |      | Rare 3   | 0.94    | 0.94    |      | Rare 3   | 1.03    | 1.03    |
|      | Rare 4   | 0.81    | 0.81    |      | Rare 4   | 0.96    | 0.96    |      | Rare 4   | 0.93    | 0.93    |      | Rare 4   | 1.02    | 1.02    |
|      | Rare 5   | 0.80    | 0.80    |      | Rare 5   | 0.95    | 0.95    |      | Rare 5   | 0.92    | 0.92    |      | Rare 5   | 1.00    | 1.00    |
|      | Rare 6   | 0.82    | 0.82    |      | Rare 6   | 0.98    | 0.98    |      | Rare 6   | 0.95    | 0.95    |      | Rare 6   | 1.05    | 1.05    |
|      | Rare 7   | 0.82    | 0.82    |      | Rare 7   | 0.97    | 0.97    |      | Rare 7   | 0.95    | 0.95    |      | Rare 7   | 1.04    | 1.04    |
|      | Rare 8   | 0.81    | 0.81    |      | Rare 8   | 0.97    | 0.97    |      | Rare 8   | 0.94    | 0.94    |      | Rare 8   | 1.04    | 1.04    |
|      | Rare 9   | 0.81    | 0.81    |      | Rare 9   | 0.96    | 0.96    |      | Rare 9   | 0.94    | 0.94    |      | Rare 9   | 1.03    | 1.03    |
|      | Rare 10  | 0.81    | 0.81    |      | Rare 10  | 0.96    | 0.96    |      | Rare 10  | 0.93    | 0.93    |      | Rare 10  | 1.02    | 1.02    |
|      | Rare 11  | 0.80    | 0.80    |      | Rare 11  | 0.94    | 0.94    |      | Rare 11  | 0.91    | 0.91    |      | Rare 11  | 1.00    | 1.00    |
|      | Rare 12  | 0.81    | 0.81    |      | Rare 12  | 0.95    | 0.95    |      | Rare 12  | 0.92    | 0.92    |      | Rare 12  | 1.01    | 1.01    |
|      | Rare 13  | 0.80    | 0.80    |      | Rare 13  | 0.94    | 0.94    |      | Rare 13  | 0.91    | 0.91    |      | Rare 13  | 1.00    | 1.00    |
|      | Rare 14  | 0.79    | 0.79    |      | Rare 14  | 0.92    | 0.92    |      | Rare 14  | 0.89    | 0.89    |      | Rare 14  | 0.97    | 0.97    |
|      | Freq 1   | 0.78    | 0.78    |      | Freq 1   | 0.92    | 0.92    |      | Freq 1   | 0.90    | 0.90    |      | Freq 1   | 0.98    | 0.98    |
|      | Freq 2   | 0.78    | 0.78    |      | Freq 2   | 0.92    | 0.92    |      | Freq 2   | 0.90    | 0.90    |      | Freq 2   | 0.98    | 0.98    |
|      | Freq 3   | 0.77    | 0.77    |      | Freq 3   | 0.92    | 0.92    |      | Freq 3   | 0.89    | 0.89    |      | Freq 3   | 0.97    | 0.97    |
|      | Freq 4   | 0.78    | 0.78    |      | Freq 4   | 0.92    | 0.92    |      | Freq 4   | 0.90    | 0.90    |      | Freq 4   | 0.98    | 0.98    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 5   | 0.77    | 0.77    |      | Freq 5   | 0.92    | 0.92    |      | Freq 5   | 0.89    | 0.89    |      | Freq 5   | 0.97    | 0.97    |
|      | Freq 6   | 0.77    | 0.77    |      | Freq 6   | 0.91    | 0.91    |      | Freq 6   | 0.89    | 0.89    |      | Freq 6   | 0.96    | 0.96    |
|      | Perm 1   | 0.77    | 0.77    |      | Perm 1   | 0.92    | 0.92    |      | Perm 1   | 0.89    | 0.89    |      | Perm 1   | 0.97    | 0.97    |
|      | MAX.     | 0.82    | 0.82    |      | MAX.     | 0.98    | 0.98    |      | MAX.     | 0.95    | 0.95    |      | MAX.     | 1.05    | 1.05    |
| 156  | Rare 1   | 1.00    | 1.00    | 157  | Rare 1   | 0.95    | 0.95    | 158  | Rare 1   | 0.89    | 0.89    | 159  | Rare 1   | 0.67    | 0.67    |
|      | Rare 2   | 0.99    | 0.99    |      | Rare 2   | 0.94    | 0.94    |      | Rare 2   | 0.89    | 0.89    |      | Rare 2   | 0.66    | 0.66    |
|      | Rare 3   | 1.00    | 1.00    |      | Rare 3   | 0.96    | 0.96    |      | Rare 3   | 0.89    | 0.89    |      | Rare 3   | 0.67    | 0.67    |
|      | Rare 4   | 0.99    | 0.99    |      | Rare 4   | 0.95    | 0.95    |      | Rare 4   | 0.89    | 0.89    |      | Rare 4   | 0.66    | 0.66    |
|      | Rare 5   | 0.98    | 0.98    |      | Rare 5   | 0.93    | 0.93    |      | Rare 5   | 0.87    | 0.87    |      | Rare 5   | 0.65    | 0.65    |
|      | Rare 6   | 1.02    | 1.02    |      | Rare 6   | 0.98    | 0.98    |      | Rare 6   | 0.88    | 0.88    |      | Rare 6   | 0.66    | 0.66    |
|      | Rare 7   | 1.01    | 1.01    |      | Rare 7   | 0.97    | 0.97    |      | Rare 7   | 0.87    | 0.87    |      | Rare 7   | 0.65    | 0.65    |
|      | Rare 8   | 1.01    | 1.01    |      | Rare 8   | 0.97    | 0.97    |      | Rare 8   | 0.85    | 0.85    |      | Rare 8   | 0.64    | 0.64    |
|      | Rare 9   | 1.00    | 1.00    |      | Rare 9   | 0.95    | 0.95    |      | Rare 9   | 0.89    | 0.89    |      | Rare 9   | 0.67    | 0.67    |
|      | Rare 10  | 0.99    | 0.99    |      | Rare 10  | 0.94    | 0.94    |      | Rare 10  | 0.89    | 0.89    |      | Rare 10  | 0.66    | 0.66    |
|      | Rare 11  | 0.97    | 0.97    |      | Rare 11  | 0.93    | 0.93    |      | Rare 11  | 0.87    | 0.87    |      | Rare 11  | 0.65    | 0.65    |
|      | Rare 12  | 0.97    | 0.97    |      | Rare 12  | 0.93    | 0.93    |      | Rare 12  | 0.91    | 0.91    |      | Rare 12  | 0.67    | 0.67    |
|      | Rare 13  | 0.96    | 0.96    |      | Rare 13  | 0.92    | 0.92    |      | Rare 13  | 0.90    | 0.90    |      | Rare 13  | 0.67    | 0.67    |
|      | Rare 14  | 0.93    | 0.93    |      | Rare 14  | 0.88    | 0.88    |      | Rare 14  | 0.90    | 0.90    |      | Rare 14  | 0.67    | 0.67    |
|      | Freq 1   | 0.95    | 0.95    |      | Freq 1   | 0.91    | 0.91    |      | Freq 1   | 0.85    | 0.85    |      | Freq 1   | 0.64    | 0.64    |
|      | Freq 2   | 0.95    | 0.95    |      | Freq 2   | 0.91    | 0.91    |      | Freq 2   | 0.85    | 0.85    |      | Freq 2   | 0.64    | 0.64    |
|      | Freq 3   | 0.94    | 0.94    |      | Freq 3   | 0.90    | 0.90    |      | Freq 3   | 0.85    | 0.85    |      | Freq 3   | 0.63    | 0.63    |
|      | Freq 4   | 0.95    | 0.95    |      | Freq 4   | 0.91    | 0.91    |      | Freq 4   | 0.84    | 0.84    |      | Freq 4   | 0.63    | 0.63    |
|      | Freq 5   | 0.94    | 0.94    |      | Freq 5   | 0.90    | 0.90    |      | Freq 5   | 0.85    | 0.85    |      | Freq 5   | 0.63    | 0.63    |
|      | Freq 6   | 0.93    | 0.93    |      | Freq 6   | 0.89    | 0.89    |      | Freq 6   | 0.85    | 0.85    |      | Freq 6   | 0.63    | 0.63    |
|      | Perm 1   | 0.94    | 0.94    |      | Perm 1   | 0.90    | 0.90    |      | Perm 1   | 0.85    | 0.85    |      | Perm 1   | 0.63    | 0.63    |
|      | MAX.     | 1.02    | 1.02    |      | MAX.     | 0.98    | 0.98    |      | MAX.     | 0.91    | 0.91    |      | MAX.     | 0.67    | 0.67    |
| 160  | Rare 1   | 0.93    | 0.93    | 161  | Rare 1   | 1.19    | 1.19    | 162  | Rare 1   | 1.01    | 1.01    | 163  | Rare 1   | 0.79    | 0.79    |
|      | Rare 2   | 0.92    | 0.92    |      | Rare 2   | 1.18    | 1.18    |      | Rare 2   | 1.00    | 1.00    |      | Rare 2   | 0.79    | 0.79    |
|      | Rare 3   | 0.93    | 0.93    |      | Rare 3   | 1.19    | 1.19    |      | Rare 3   | 1.01    | 1.01    |      | Rare 3   | 0.79    | 0.79    |
|      | Rare 4   | 0.92    | 0.92    |      | Rare 4   | 1.18    | 1.18    |      | Rare 4   | 1.00    | 1.00    |      | Rare 4   | 0.79    | 0.79    |
|      | Rare 5   | 0.91    | 0.91    |      | Rare 5   | 1.17    | 1.17    |      | Rare 5   | 0.99    | 0.99    |      | Rare 5   | 0.78    | 0.78    |
|      | Rare 6   | 0.91    | 0.91    |      | Rare 6   | 1.18    | 1.18    |      | Rare 6   | 1.00    | 1.00    |      | Rare 6   | 0.79    | 0.79    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 7   | 0.91    | 0.91    |      | Rare 7   | 1.17    | 1.17    |      | Rare 7   | 0.99    | 0.99    |      | Rare 7   | 0.78    | 0.78    |
|      | Rare 8   | 0.89    | 0.89    |      | Rare 8   | 1.14    | 1.14    |      | Rare 8   | 0.97    | 0.97    |      | Rare 8   | 0.77    | 0.77    |
|      | Rare 9   | 0.93    | 0.93    |      | Rare 9   | 1.19    | 1.19    |      | Rare 9   | 1.01    | 1.01    |      | Rare 9   | 0.79    | 0.79    |
|      | Rare 10  | 0.92    | 0.92    |      | Rare 10  | 1.18    | 1.18    |      | Rare 10  | 1.00    | 1.00    |      | Rare 10  | 0.79    | 0.79    |
|      | Rare 11  | 0.91    | 0.91    |      | Rare 11  | 1.17    | 1.17    |      | Rare 11  | 0.99    | 0.99    |      | Rare 11  | 0.78    | 0.78    |
|      | Rare 12  | 0.94    | 0.94    |      | Rare 12  | 1.21    | 1.21    |      | Rare 12  | 1.02    | 1.02    |      | Rare 12  | 0.80    | 0.80    |
|      | Rare 13  | 0.93    | 0.93    |      | Rare 13  | 1.20    | 1.20    |      | Rare 13  | 1.01    | 1.01    |      | Rare 13  | 0.79    | 0.79    |
|      | Rare 14  | 0.93    | 0.93    |      | Rare 14  | 1.19    | 1.19    |      | Rare 14  | 1.01    | 1.01    |      | Rare 14  | 0.79    | 0.79    |
|      | Freq 1   | 0.89    | 0.89    |      | Freq 1   | 1.14    | 1.14    |      | Freq 1   | 0.97    | 0.97    |      | Freq 1   | 0.76    | 0.76    |
|      | Freq 2   | 0.88    | 0.88    |      | Freq 2   | 1.14    | 1.14    |      | Freq 2   | 0.96    | 0.96    |      | Freq 2   | 0.75    | 0.75    |
|      | Freq 3   | 0.88    | 0.88    |      | Freq 3   | 1.13    | 1.13    |      | Freq 3   | 0.96    | 0.96    |      | Freq 3   | 0.75    | 0.75    |
|      | Freq 4   | 0.87    | 0.87    |      | Freq 4   | 1.13    | 1.13    |      | Freq 4   | 0.95    | 0.95    |      | Freq 4   | 0.75    | 0.75    |
|      | Freq 5   | 0.88    | 0.88    |      | Freq 5   | 1.13    | 1.13    |      | Freq 5   | 0.96    | 0.96    |      | Freq 5   | 0.75    | 0.75    |
|      | Freq 6   | 0.88    | 0.88    |      | Freq 6   | 1.14    | 1.14    |      | Freq 6   | 0.96    | 0.96    |      | Freq 6   | 0.75    | 0.75    |
|      | Perm 1   | 0.88    | 0.88    |      | Perm 1   | 1.13    | 1.13    |      | Perm 1   | 0.96    | 0.96    |      | Perm 1   | 0.75    | 0.75    |
|      | MAX.     | 0.94    | 0.94    |      | MAX.     | 1.21    | 1.21    |      | MAX.     | 1.02    | 1.02    |      | MAX.     | 0.80    | 0.80    |
| 164  | Rare 1   | 0.93    | 0.93    | 165  | Rare 1   | 1.12    | 1.12    | 166  | Rare 1   | 1.04    | 1.04    | 167  | Rare 1   | 0.87    | 0.87    |
|      | Rare 2   | 0.92    | 0.92    |      | Rare 2   | 1.11    | 1.11    |      | Rare 2   | 1.04    | 1.04    |      | Rare 2   | 0.87    | 0.87    |
|      | Rare 3   | 0.93    | 0.93    |      | Rare 3   | 1.12    | 1.12    |      | Rare 3   | 1.04    | 1.04    |      | Rare 3   | 0.87    | 0.87    |
|      | Rare 4   | 0.92    | 0.92    |      | Rare 4   | 1.11    | 1.11    |      | Rare 4   | 1.04    | 1.04    |      | Rare 4   | 0.87    | 0.87    |
|      | Rare 5   | 0.91    | 0.91    |      | Rare 5   | 1.10    | 1.10    |      | Rare 5   | 1.03    | 1.03    |      | Rare 5   | 0.86    | 0.86    |
|      | Rare 6   | 0.92    | 0.92    |      | Rare 6   | 1.11    | 1.11    |      | Rare 6   | 1.04    | 1.04    |      | Rare 6   | 0.87    | 0.87    |
|      | Rare 7   | 0.92    | 0.92    |      | Rare 7   | 1.11    | 1.11    |      | Rare 7   | 1.04    | 1.04    |      | Rare 7   | 0.87    | 0.87    |
|      | Rare 8   | 0.90    | 0.90    |      | Rare 8   | 1.09    | 1.09    |      | Rare 8   | 1.03    | 1.03    |      | Rare 8   | 0.86    | 0.86    |
|      | Rare 9   | 0.93    | 0.93    |      | Rare 9   | 1.12    | 1.12    |      | Rare 9   | 1.04    | 1.04    |      | Rare 9   | 0.87    | 0.87    |
|      | Rare 10  | 0.92    | 0.92    |      | Rare 10  | 1.11    | 1.11    |      | Rare 10  | 1.04    | 1.04    |      | Rare 10  | 0.87    | 0.87    |
|      | Rare 11  | 0.91    | 0.91    |      | Rare 11  | 1.10    | 1.10    |      | Rare 11  | 1.03    | 1.03    |      | Rare 11  | 0.86    | 0.86    |
|      | Rare 12  | 0.93    | 0.93    |      | Rare 12  | 1.13    | 1.13    |      | Rare 12  | 1.04    | 1.04    |      | Rare 12  | 0.87    | 0.87    |
|      | Rare 13  | 0.93    | 0.93    |      | Rare 13  | 1.12    | 1.12    |      | Rare 13  | 1.04    | 1.04    |      | Rare 13  | 0.87    | 0.87    |
|      | Rare 14  | 0.93    | 0.93    |      | Rare 14  | 1.12    | 1.12    |      | Rare 14  | 1.03    | 1.03    |      | Rare 14  | 0.86    | 0.86    |
|      | Freq 1   | 0.89    | 0.89    |      | Freq 1   | 1.08    | 1.08    |      | Freq 1   | 1.01    | 1.01    |      | Freq 1   | 0.84    | 0.84    |
|      | Freq 2   | 0.88    | 0.88    |      | Freq 2   | 1.07    | 1.07    |      | Freq 2   | 1.00    | 1.00    |      | Freq 2   | 0.83    | 0.83    |
|      | Freq 3   | 0.88    | 0.88    |      | Freq 3   | 1.06    | 1.06    |      | Freq 3   | 0.99    | 0.99    |      | Freq 3   | 0.83    | 0.83    |

CEDIMENTI ELASTICI ED EDOMETRICI

| Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm | Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm | Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm | Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm |
|--------------|------------------|---------------|---------------|--------------|------------------|---------------|---------------|--------------|------------------|---------------|---------------|--------------|------------------|---------------|---------------|
|              | Freq 4           | 0.88          | 0.88          |              | Freq 4           | 1.06          | 1.06          |              | Freq 4           | 0.99          | 0.99          |              | Freq 4           | 0.83          | 0.83          |
|              | Freq 5           | 0.88          | 0.88          |              | Freq 5           | 1.06          | 1.06          |              | Freq 5           | 0.99          | 0.99          |              | Freq 5           | 0.83          | 0.83          |
|              | Freq 6           | 0.88          | 0.88          |              | Freq 6           | 1.06          | 1.06          |              | Freq 6           | 0.99          | 0.99          |              | Freq 6           | 0.83          | 0.83          |
|              | Perm 1           | 0.88          | 0.88          |              | Perm 1           | 1.06          | 1.06          |              | Perm 1           | 0.99          | 0.99          |              | Perm 1           | 0.83          | 0.83          |
|              | MAX.             | 0.93          | 0.93          |              | MAX.             | 1.13          | 1.13          |              | MAX.             | 1.04          | 1.04          |              | MAX.             | 0.87          | 0.87          |
| 168          | Rare 1           | 0.91          | 0.91          | 169          | Rare 1           | 0.93          | 0.93          | 170          | Rare 1           | 0.67          | 0.67          | 171          | Rare 1           | 0.89          | 0.89          |
|              | Rare 2           | 0.91          | 0.91          |              | Rare 2           | 0.92          | 0.92          |              | Rare 2           | 0.66          | 0.66          |              | Rare 2           | 0.89          | 0.89          |
|              | Rare 3           | 0.91          | 0.91          |              | Rare 3           | 0.93          | 0.93          |              | Rare 3           | 0.67          | 0.67          |              | Rare 3           | 0.89          | 0.89          |
|              | Rare 4           | 0.91          | 0.91          |              | Rare 4           | 0.92          | 0.92          |              | Rare 4           | 0.66          | 0.66          |              | Rare 4           | 0.89          | 0.89          |
|              | Rare 5           | 0.90          | 0.90          |              | Rare 5           | 0.91          | 0.91          |              | Rare 5           | 0.66          | 0.66          |              | Rare 5           | 0.88          | 0.88          |
|              | Rare 6           | 0.91          | 0.91          |              | Rare 6           | 0.92          | 0.92          |              | Rare 6           | 0.66          | 0.66          |              | Rare 6           | 0.88          | 0.88          |
|              | Rare 7           | 0.91          | 0.91          |              | Rare 7           | 0.91          | 0.91          |              | Rare 7           | 0.66          | 0.66          |              | Rare 7           | 0.87          | 0.87          |
|              | Rare 8           | 0.90          | 0.90          |              | Rare 8           | 0.89          | 0.89          |              | Rare 8           | 0.65          | 0.65          |              | Rare 8           | 0.85          | 0.85          |
|              | Rare 9           | 0.91          | 0.91          |              | Rare 9           | 0.93          | 0.93          |              | Rare 9           | 0.67          | 0.67          |              | Rare 9           | 0.89          | 0.89          |
|              | Rare 10          | 0.91          | 0.91          |              | Rare 10          | 0.92          | 0.92          |              | Rare 10          | 0.66          | 0.66          |              | Rare 10          | 0.89          | 0.89          |
|              | Rare 11          | 0.90          | 0.90          |              | Rare 11          | 0.91          | 0.91          |              | Rare 11          | 0.66          | 0.66          |              | Rare 11          | 0.88          | 0.88          |
|              | Rare 12          | 0.91          | 0.91          |              | Rare 12          | 0.94          | 0.94          |              | Rare 12          | 0.68          | 0.68          |              | Rare 12          | 0.91          | 0.91          |
|              | Rare 13          | 0.91          | 0.91          |              | Rare 13          | 0.93          | 0.93          |              | Rare 13          | 0.67          | 0.67          |              | Rare 13          | 0.90          | 0.90          |
|              | Rare 14          | 0.90          | 0.90          |              | Rare 14          | 0.93          | 0.93          |              | Rare 14          | 0.67          | 0.67          |              | Rare 14          | 0.90          | 0.90          |
|              | Freq 1           | 0.88          | 0.88          |              | Freq 1           | 0.89          | 0.89          |              | Freq 1           | 0.64          | 0.64          |              | Freq 1           | 0.86          | 0.86          |
|              | Freq 2           | 0.87          | 0.87          |              | Freq 2           | 0.88          | 0.88          |              | Freq 2           | 0.64          | 0.64          |              | Freq 2           | 0.85          | 0.85          |
|              | Freq 3           | 0.86          | 0.86          |              | Freq 3           | 0.88          | 0.88          |              | Freq 3           | 0.63          | 0.63          |              | Freq 3           | 0.85          | 0.85          |
|              | Freq 4           | 0.86          | 0.86          |              | Freq 4           | 0.88          | 0.88          |              | Freq 4           | 0.63          | 0.63          |              | Freq 4           | 0.84          | 0.84          |
|              | Freq 5           | 0.86          | 0.86          |              | Freq 5           | 0.88          | 0.88          |              | Freq 5           | 0.63          | 0.63          |              | Freq 5           | 0.85          | 0.85          |
|              | Freq 6           | 0.86          | 0.86          |              | Freq 6           | 0.88          | 0.88          |              | Freq 6           | 0.64          | 0.64          |              | Freq 6           | 0.85          | 0.85          |
|              | Perm 1           | 0.86          | 0.86          |              | Perm 1           | 0.88          | 0.88          |              | Perm 1           | 0.63          | 0.63          |              | Perm 1           | 0.85          | 0.85          |
|              | MAX.             | 0.91          | 0.91          |              | MAX.             | 0.94          | 0.94          |              | MAX.             | 0.68          | 0.68          |              | MAX.             | 0.91          | 0.91          |
| 172          | Rare 1           | 0.93          | 0.93          | 173          | Rare 1           | 0.79          | 0.79          | 174          | Rare 1           | 1.01          | 1.01          | 175          | Rare 1           | 1.18          | 1.18          |
|              | Rare 2           | 0.92          | 0.92          |              | Rare 2           | 0.79          | 0.79          |              | Rare 2           | 1.00          | 1.00          |              | Rare 2           | 1.17          | 1.17          |
|              | Rare 3           | 0.93          | 0.93          |              | Rare 3           | 0.79          | 0.79          |              | Rare 3           | 1.01          | 1.01          |              | Rare 3           | 1.18          | 1.18          |
|              | Rare 4           | 0.92          | 0.92          |              | Rare 4           | 0.79          | 0.79          |              | Rare 4           | 1.00          | 1.00          |              | Rare 4           | 1.17          | 1.17          |
|              | Rare 5           | 0.92          | 0.92          |              | Rare 5           | 0.78          | 0.78          |              | Rare 5           | 0.99          | 0.99          |              | Rare 5           | 1.15          | 1.15          |

CEDIMENTI ELASTICI ED EDOMETRICI

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 6   | 0.92    | 0.92    |      | Rare 6   | 0.79    | 0.79    |      | Rare 6   | 1.00    | 1.00    |      | Rare 6   | 1.16    | 1.16    |
|      | Rare 7   | 0.92    | 0.92    |      | Rare 7   | 0.78    | 0.78    |      | Rare 7   | 0.99    | 0.99    |      | Rare 7   | 1.15    | 1.15    |
|      | Rare 8   | 0.90    | 0.90    |      | Rare 8   | 0.78    | 0.78    |      | Rare 8   | 0.98    | 0.98    |      | Rare 8   | 1.13    | 1.13    |
|      | Rare 9   | 0.93    | 0.93    |      | Rare 9   | 0.79    | 0.79    |      | Rare 9   | 1.01    | 1.01    |      | Rare 9   | 1.18    | 1.18    |
|      | Rare 10  | 0.92    | 0.92    |      | Rare 10  | 0.79    | 0.79    |      | Rare 10  | 1.00    | 1.00    |      | Rare 10  | 1.17    | 1.17    |
|      | Rare 11  | 0.92    | 0.92    |      | Rare 11  | 0.78    | 0.78    |      | Rare 11  | 0.99    | 0.99    |      | Rare 11  | 1.15    | 1.15    |
|      | Rare 12  | 0.94    | 0.94    |      | Rare 12  | 0.80    | 0.80    |      | Rare 12  | 1.02    | 1.02    |      | Rare 12  | 1.19    | 1.19    |
|      | Rare 13  | 0.93    | 0.93    |      | Rare 13  | 0.79    | 0.79    |      | Rare 13  | 1.01    | 1.01    |      | Rare 13  | 1.18    | 1.18    |
|      | Rare 14  | 0.93    | 0.93    |      | Rare 14  | 0.79    | 0.79    |      | Rare 14  | 1.01    | 1.01    |      | Rare 14  | 1.17    | 1.17    |
|      | Freq 1   | 0.89    | 0.89    |      | Freq 1   | 0.76    | 0.76    |      | Freq 1   | 0.97    | 0.97    |      | Freq 1   | 1.12    | 1.12    |
|      | Freq 2   | 0.88    | 0.88    |      | Freq 2   | 0.76    | 0.76    |      | Freq 2   | 0.96    | 0.96    |      | Freq 2   | 1.12    | 1.12    |
|      | Freq 3   | 0.88    | 0.88    |      | Freq 3   | 0.75    | 0.75    |      | Freq 3   | 0.96    | 0.96    |      | Freq 3   | 1.11    | 1.11    |
|      | Freq 4   | 0.88    | 0.88    |      | Freq 4   | 0.75    | 0.75    |      | Freq 4   | 0.95    | 0.95    |      | Freq 4   | 1.11    | 1.11    |
|      | Freq 5   | 0.88    | 0.88    |      | Freq 5   | 0.75    | 0.75    |      | Freq 5   | 0.96    | 0.96    |      | Freq 5   | 1.11    | 1.11    |
|      | Freq 6   | 0.88    | 0.88    |      | Freq 6   | 0.76    | 0.76    |      | Freq 6   | 0.96    | 0.96    |      | Freq 6   | 1.12    | 1.12    |
|      | Perm 1   | 0.88    | 0.88    |      | Perm 1   | 0.75    | 0.75    |      | Perm 1   | 0.96    | 0.96    |      | Perm 1   | 1.11    | 1.11    |
|      | MAX.     | 0.94    | 0.94    |      | MAX.     | 0.80    | 0.80    |      | MAX.     | 1.02    | 1.02    |      | MAX.     | 1.19    | 1.19    |
| 176  | Rare 1   | 0.91    | 0.91    | 177  | Rare 1   | 0.88    | 0.88    | 178  | Rare 1   | 1.05    | 1.05    | 179  | Rare 1   | 1.00    | 1.00    |
|      | Rare 2   | 0.91    | 0.91    |      | Rare 2   | 0.87    | 0.87    |      | Rare 2   | 1.04    | 1.04    |      | Rare 2   | 1.00    | 1.00    |
|      | Rare 3   | 0.91    | 0.91    |      | Rare 3   | 0.88    | 0.88    |      | Rare 3   | 1.05    | 1.05    |      | Rare 3   | 1.00    | 1.00    |
|      | Rare 4   | 0.91    | 0.91    |      | Rare 4   | 0.87    | 0.87    |      | Rare 4   | 1.04    | 1.04    |      | Rare 4   | 1.00    | 1.00    |
|      | Rare 5   | 0.90    | 0.90    |      | Rare 5   | 0.87    | 0.87    |      | Rare 5   | 1.03    | 1.03    |      | Rare 5   | 1.00    | 1.00    |
|      | Rare 6   | 0.91    | 0.91    |      | Rare 6   | 0.88    | 0.88    |      | Rare 6   | 1.05    | 1.05    |      | Rare 6   | 1.01    | 1.01    |
|      | Rare 7   | 0.91    | 0.91    |      | Rare 7   | 0.87    | 0.87    |      | Rare 7   | 1.04    | 1.04    |      | Rare 7   | 1.01    | 1.01    |
|      | Rare 8   | 0.90    | 0.90    |      | Rare 8   | 0.87    | 0.87    |      | Rare 8   | 1.03    | 1.03    |      | Rare 8   | 1.00    | 1.00    |
|      | Rare 9   | 0.91    | 0.91    |      | Rare 9   | 0.88    | 0.88    |      | Rare 9   | 1.05    | 1.05    |      | Rare 9   | 1.00    | 1.00    |
|      | Rare 10  | 0.91    | 0.91    |      | Rare 10  | 0.87    | 0.87    |      | Rare 10  | 1.04    | 1.04    |      | Rare 10  | 1.00    | 1.00    |
|      | Rare 11  | 0.90    | 0.90    |      | Rare 11  | 0.87    | 0.87    |      | Rare 11  | 1.03    | 1.03    |      | Rare 11  | 1.00    | 1.00    |
|      | Rare 12  | 0.91    | 0.91    |      | Rare 12  | 0.88    | 0.88    |      | Rare 12  | 1.05    | 1.05    |      | Rare 12  | 1.00    | 1.00    |
|      | Rare 13  | 0.91    | 0.91    |      | Rare 13  | 0.87    | 0.87    |      | Rare 13  | 1.04    | 1.04    |      | Rare 13  | 1.00    | 1.00    |
|      | Rare 14  | 0.90    | 0.90    |      | Rare 14  | 0.87    | 0.87    |      | Rare 14  | 1.03    | 1.03    |      | Rare 14  | 0.99    | 0.99    |
|      | Freq 1   | 0.88    | 0.88    |      | Freq 1   | 0.85    | 0.85    |      | Freq 1   | 1.01    | 1.01    |      | Freq 1   | 0.97    | 0.97    |
|      | Freq 2   | 0.87    | 0.87    |      | Freq 2   | 0.84    | 0.84    |      | Freq 2   | 1.00    | 1.00    |      | Freq 2   | 0.96    | 0.96    |



CEDIMENTI ELASTICI ED EDOMETRICI

| Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm | Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm | Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm | Filo<br>N.ro | Combinaz<br>N.ro | Ced.El.<br>cm | Ced.Ed.<br>cm |
|--------------|------------------|---------------|---------------|--------------|------------------|---------------|---------------|--------------|------------------|---------------|---------------|--------------|------------------|---------------|---------------|
|              | Freq 3           | 0.87          | 0.87          |              | Freq 3           | 0.83          | 0.83          |              | Freq 3           | 1.00          | 1.00          |              | Freq 3           | 0.96          | 0.96          |
|              | Freq 4           | 0.87          | 0.87          |              | Freq 4           | 0.83          | 0.83          |              | Freq 4           | 1.00          | 1.00          |              | Freq 4           | 0.96          | 0.96          |
|              | Freq 5           | 0.86          | 0.86          |              | Freq 5           | 0.83          | 0.83          |              | Freq 5           | 1.00          | 1.00          |              | Freq 5           | 0.96          | 0.96          |
|              | Freq 6           | 0.86          | 0.86          |              | Freq 6           | 0.83          | 0.83          |              | Freq 6           | 1.00          | 1.00          |              | Freq 6           | 0.95          | 0.95          |
|              | Perm 1           | 0.86          | 0.86          |              | Perm 1           | 0.83          | 0.83          |              | Perm 1           | 1.00          | 1.00          |              | Perm 1           | 0.96          | 0.96          |
|              | MAX.             | 0.91          | 0.91          |              | MAX.             | 0.88          | 0.88          |              | MAX.             | 1.05          | 1.05          |              | MAX.             | 1.01          | 1.01          |
| 180          | Rare 1           | 0.96          | 0.96          | 181          | Rare 1           | 0.96          | 0.96          | 182          | Rare 1           | 1.06          | 1.06          | 183          | Rare 1           | 1.08          | 1.08          |
|              | Rare 2           | 0.96          | 0.96          |              | Rare 2           | 0.96          | 0.96          |              | Rare 2           | 1.06          | 1.06          |              | Rare 2           | 1.07          | 1.07          |
|              | Rare 3           | 0.96          | 0.96          |              | Rare 3           | 0.96          | 0.96          |              | Rare 3           | 1.06          | 1.06          |              | Rare 3           | 1.08          | 1.08          |
|              | Rare 4           | 0.96          | 0.96          |              | Rare 4           | 0.96          | 0.96          |              | Rare 4           | 1.06          | 1.06          |              | Rare 4           | 1.07          | 1.07          |
|              | Rare 5           | 0.95          | 0.95          |              | Rare 5           | 0.95          | 0.95          |              | Rare 5           | 1.05          | 1.05          |              | Rare 5           | 1.06          | 1.06          |
|              | Rare 6           | 0.97          | 0.97          |              | Rare 6           | 0.97          | 0.97          |              | Rare 6           | 1.07          | 1.07          |              | Rare 6           | 1.09          | 1.09          |
|              | Rare 7           | 0.96          | 0.96          |              | Rare 7           | 0.96          | 0.96          |              | Rare 7           | 1.06          | 1.06          |              | Rare 7           | 1.08          | 1.08          |
|              | Rare 8           | 0.96          | 0.96          |              | Rare 8           | 0.96          | 0.96          |              | Rare 8           | 1.06          | 1.06          |              | Rare 8           | 1.07          | 1.07          |
|              | Rare 9           | 0.96          | 0.96          |              | Rare 9           | 0.96          | 0.96          |              | Rare 9           | 1.06          | 1.06          |              | Rare 9           | 1.08          | 1.08          |
|              | Rare 10          | 0.96          | 0.96          |              | Rare 10          | 0.96          | 0.96          |              | Rare 10          | 1.06          | 1.06          |              | Rare 10          | 1.07          | 1.07          |
|              | Rare 11          | 0.95          | 0.95          |              | Rare 11          | 0.95          | 0.95          |              | Rare 11          | 1.05          | 1.05          |              | Rare 11          | 1.06          | 1.06          |
|              | Rare 12          | 0.96          | 0.96          |              | Rare 12          | 0.96          | 0.96          |              | Rare 12          | 1.06          | 1.06          |              | Rare 12          | 1.08          | 1.08          |
|              | Rare 13          | 0.95          | 0.95          |              | Rare 13          | 0.95          | 0.95          |              | Rare 13          | 1.05          | 1.05          |              | Rare 13          | 1.07          | 1.07          |
|              | Rare 14          | 0.95          | 0.95          |              | Rare 14          | 0.95          | 0.95          |              | Rare 14          | 1.04          | 1.04          |              | Rare 14          | 1.06          | 1.06          |
|              | Freq 1           | 0.93          | 0.93          |              | Freq 1           | 0.93          | 0.93          |              | Freq 1           | 1.03          | 1.03          |              | Freq 1           | 1.04          | 1.04          |
|              | Freq 2           | 0.92          | 0.92          |              | Freq 2           | 0.92          | 0.92          |              | Freq 2           | 1.01          | 1.01          |              | Freq 2           | 1.03          | 1.03          |
|              | Freq 3           | 0.92          | 0.92          |              | Freq 3           | 0.92          | 0.92          |              | Freq 3           | 1.01          | 1.01          |              | Freq 3           | 1.03          | 1.03          |
|              | Freq 4           | 0.92          | 0.92          |              | Freq 4           | 0.92          | 0.92          |              | Freq 4           | 1.01          | 1.01          |              | Freq 4           | 1.03          | 1.03          |
|              | Freq 5           | 0.92          | 0.92          |              | Freq 5           | 0.92          | 0.92          |              | Freq 5           | 1.01          | 1.01          |              | Freq 5           | 1.03          | 1.03          |
|              | Freq 6           | 0.92          | 0.92          |              | Freq 6           | 0.92          | 0.92          |              | Freq 6           | 1.01          | 1.01          |              | Freq 6           | 1.03          | 1.03          |
|              | Perm 1           | 0.92          | 0.92          |              | Perm 1           | 0.92          | 0.92          |              | Perm 1           | 1.01          | 1.01          |              | Perm 1           | 1.03          | 1.03          |
|              | MAX.             | 0.97          | 0.97          |              | MAX.             | 0.97          | 0.97          |              | MAX.             | 1.07          | 1.07          |              | MAX.             | 1.09          | 1.09          |
| 184          | Rare 1           | 1.09          | 1.09          | 185          | Rare 1           | 1.06          | 1.06          | 186          | Rare 1           | 0.96          | 0.96          | 187          | Rare 1           | 0.96          | 0.96          |
|              | Rare 2           | 1.08          | 1.08          |              | Rare 2           | 1.05          | 1.05          |              | Rare 2           | 0.96          | 0.96          |              | Rare 2           | 0.96          | 0.96          |
|              | Rare 3           | 1.09          | 1.09          |              | Rare 3           | 1.06          | 1.06          |              | Rare 3           | 0.96          | 0.96          |              | Rare 3           | 0.96          | 0.96          |
|              | Rare 4           | 1.08          | 1.08          |              | Rare 4           | 1.05          | 1.05          |              | Rare 4           | 0.96          | 0.96          |              | Rare 4           | 0.96          | 0.96          |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 5   | 1.07    | 1.07    |      | Rare 5   | 1.04    | 1.04    |      | Rare 5   | 0.95    | 0.95    |      | Rare 5   | 0.95    | 0.95    |
|      | Rare 6   | 1.09    | 1.09    |      | Rare 6   | 1.06    | 1.06    |      | Rare 6   | 0.96    | 0.96    |      | Rare 6   | 0.96    | 0.96    |
|      | Rare 7   | 1.08    | 1.08    |      | Rare 7   | 1.05    | 1.05    |      | Rare 7   | 0.96    | 0.96    |      | Rare 7   | 0.96    | 0.96    |
|      | Rare 8   | 1.07    | 1.07    |      | Rare 8   | 1.05    | 1.05    |      | Rare 8   | 0.96    | 0.96    |      | Rare 8   | 0.96    | 0.96    |
|      | Rare 9   | 1.09    | 1.09    |      | Rare 9   | 1.06    | 1.06    |      | Rare 9   | 0.96    | 0.96    |      | Rare 9   | 0.96    | 0.96    |
|      | Rare 10  | 1.08    | 1.08    |      | Rare 10  | 1.05    | 1.05    |      | Rare 10  | 0.96    | 0.96    |      | Rare 10  | 0.96    | 0.96    |
|      | Rare 11  | 1.07    | 1.07    |      | Rare 11  | 1.04    | 1.04    |      | Rare 11  | 0.95    | 0.95    |      | Rare 11  | 0.95    | 0.95    |
|      | Rare 12  | 1.08    | 1.08    |      | Rare 12  | 1.05    | 1.05    |      | Rare 12  | 0.96    | 0.96    |      | Rare 12  | 0.96    | 0.96    |
|      | Rare 13  | 1.08    | 1.08    |      | Rare 13  | 1.05    | 1.05    |      | Rare 13  | 0.95    | 0.95    |      | Rare 13  | 0.95    | 0.95    |
|      | Rare 14  | 1.06    | 1.06    |      | Rare 14  | 1.04    | 1.04    |      | Rare 14  | 0.94    | 0.94    |      | Rare 14  | 0.95    | 0.95    |
|      | Freq 1   | 1.05    | 1.05    |      | Freq 1   | 1.02    | 1.02    |      | Freq 1   | 0.93    | 0.93    |      | Freq 1   | 0.93    | 0.93    |
|      | Freq 2   | 1.04    | 1.04    |      | Freq 2   | 1.01    | 1.01    |      | Freq 2   | 0.92    | 0.92    |      | Freq 2   | 0.92    | 0.92    |
|      | Freq 3   | 1.03    | 1.03    |      | Freq 3   | 1.01    | 1.01    |      | Freq 3   | 0.92    | 0.92    |      | Freq 3   | 0.92    | 0.92    |
|      | Freq 4   | 1.04    | 1.04    |      | Freq 4   | 1.01    | 1.01    |      | Freq 4   | 0.92    | 0.92    |      | Freq 4   | 0.92    | 0.92    |
|      | Freq 5   | 1.03    | 1.03    |      | Freq 5   | 1.01    | 1.01    |      | Freq 5   | 0.92    | 0.92    |      | Freq 5   | 0.92    | 0.92    |
|      | Freq 6   | 1.03    | 1.03    |      | Freq 6   | 1.01    | 1.01    |      | Freq 6   | 0.91    | 0.91    |      | Freq 6   | 0.91    | 0.91    |
|      | Perm 1   | 1.03    | 1.03    |      | Perm 1   | 1.01    | 1.01    |      | Perm 1   | 0.92    | 0.92    |      | Perm 1   | 0.92    | 0.92    |
|      | MAX.     | 1.09    | 1.09    |      | MAX.     | 1.06    | 1.06    |      | MAX.     | 0.96    | 0.96    |      | MAX.     | 0.96    | 0.96    |
| 188  | Rare 1   | 1.20    | 1.20    | 189  | Rare 1   | 1.24    | 1.24    | 190  | Rare 1   | 1.26    | 1.26    | 191  | Rare 1   | 1.08    | 1.08    |
|      | Rare 2   | 1.19    | 1.19    |      | Rare 2   | 1.23    | 1.23    |      | Rare 2   | 1.24    | 1.24    |      | Rare 2   | 1.07    | 1.07    |
|      | Rare 3   | 1.20    | 1.20    |      | Rare 3   | 1.24    | 1.24    |      | Rare 3   | 1.26    | 1.26    |      | Rare 3   | 1.08    | 1.08    |
|      | Rare 4   | 1.19    | 1.19    |      | Rare 4   | 1.23    | 1.23    |      | Rare 4   | 1.24    | 1.24    |      | Rare 4   | 1.07    | 1.07    |
|      | Rare 5   | 1.17    | 1.17    |      | Rare 5   | 1.21    | 1.21    |      | Rare 5   | 1.22    | 1.22    |      | Rare 5   | 1.05    | 1.05    |
|      | Rare 6   | 1.17    | 1.17    |      | Rare 6   | 1.21    | 1.21    |      | Rare 6   | 1.23    | 1.23    |      | Rare 6   | 1.06    | 1.06    |
|      | Rare 7   | 1.16    | 1.16    |      | Rare 7   | 1.20    | 1.20    |      | Rare 7   | 1.22    | 1.22    |      | Rare 7   | 1.05    | 1.05    |
|      | Rare 8   | 1.12    | 1.12    |      | Rare 8   | 1.16    | 1.16    |      | Rare 8   | 1.18    | 1.18    |      | Rare 8   | 1.03    | 1.03    |
|      | Rare 9   | 1.21    | 1.21    |      | Rare 9   | 1.24    | 1.24    |      | Rare 9   | 1.26    | 1.26    |      | Rare 9   | 1.08    | 1.08    |
|      | Rare 10  | 1.19    | 1.19    |      | Rare 10  | 1.23    | 1.23    |      | Rare 10  | 1.25    | 1.25    |      | Rare 10  | 1.07    | 1.07    |
|      | Rare 11  | 1.18    | 1.18    |      | Rare 11  | 1.21    | 1.21    |      | Rare 11  | 1.23    | 1.23    |      | Rare 11  | 1.06    | 1.06    |
|      | Rare 12  | 1.24    | 1.24    |      | Rare 12  | 1.27    | 1.27    |      | Rare 12  | 1.29    | 1.29    |      | Rare 12  | 1.10    | 1.10    |
|      | Rare 13  | 1.22    | 1.22    |      | Rare 13  | 1.26    | 1.26    |      | Rare 13  | 1.27    | 1.27    |      | Rare 13  | 1.09    | 1.09    |
|      | Rare 14  | 1.23    | 1.23    |      | Rare 14  | 1.26    | 1.26    |      | Rare 14  | 1.27    | 1.27    |      | Rare 14  | 1.08    | 1.08    |
|      | Freq 1   | 1.15    | 1.15    |      | Freq 1   | 1.18    | 1.18    |      | Freq 1   | 1.20    | 1.20    |      | Freq 1   | 1.03    | 1.03    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Freq 2   | 1.15    | 1.15    |      | Freq 2   | 1.18    | 1.18    |      | Freq 2   | 1.20    | 1.20    |      | Freq 2   | 1.03    | 1.03    |
|      | Freq 3   | 1.14    | 1.14    |      | Freq 3   | 1.18    | 1.18    |      | Freq 3   | 1.19    | 1.19    |      | Freq 3   | 1.03    | 1.03    |
|      | Freq 4   | 1.13    | 1.13    |      | Freq 4   | 1.17    | 1.17    |      | Freq 4   | 1.18    | 1.18    |      | Freq 4   | 1.02    | 1.02    |
|      | Freq 5   | 1.14    | 1.14    |      | Freq 5   | 1.18    | 1.18    |      | Freq 5   | 1.19    | 1.19    |      | Freq 5   | 1.03    | 1.03    |
|      | Freq 6   | 1.15    | 1.15    |      | Freq 6   | 1.19    | 1.19    |      | Freq 6   | 1.20    | 1.20    |      | Freq 6   | 1.03    | 1.03    |
|      | Perm 1   | 1.14    | 1.14    |      | Perm 1   | 1.18    | 1.18    |      | Perm 1   | 1.19    | 1.19    |      | Perm 1   | 1.03    | 1.03    |
|      | MAX.     | 1.24    | 1.24    |      | MAX.     | 1.27    | 1.27    |      | MAX.     | 1.29    | 1.29    |      | MAX.     | 1.10    | 1.10    |
| 192  | Rare 1   | 1.12    | 1.12    | 193  | Rare 1   | 0.94    | 0.94    | 194  | Rare 1   | 0.81    | 0.81    | 195  | Rare 1   | 0.94    | 0.94    |
|      | Rare 2   | 1.11    | 1.11    |      | Rare 2   | 0.93    | 0.93    |      | Rare 2   | 0.80    | 0.80    |      | Rare 2   | 0.93    | 0.93    |
|      | Rare 3   | 1.12    | 1.12    |      | Rare 3   | 0.94    | 0.94    |      | Rare 3   | 0.81    | 0.81    |      | Rare 3   | 0.94    | 0.94    |
|      | Rare 4   | 1.11    | 1.11    |      | Rare 4   | 0.93    | 0.93    |      | Rare 4   | 0.80    | 0.80    |      | Rare 4   | 0.93    | 0.93    |
|      | Rare 5   | 1.09    | 1.09    |      | Rare 5   | 0.92    | 0.92    |      | Rare 5   | 0.80    | 0.80    |      | Rare 5   | 0.92    | 0.92    |
|      | Rare 6   | 1.11    | 1.11    |      | Rare 6   | 0.93    | 0.93    |      | Rare 6   | 0.80    | 0.80    |      | Rare 6   | 0.94    | 0.94    |
|      | Rare 7   | 1.10    | 1.10    |      | Rare 7   | 0.92    | 0.92    |      | Rare 7   | 0.80    | 0.80    |      | Rare 7   | 0.93    | 0.93    |
|      | Rare 8   | 1.07    | 1.07    |      | Rare 8   | 0.91    | 0.91    |      | Rare 8   | 0.79    | 0.79    |      | Rare 8   | 0.92    | 0.92    |
|      | Rare 9   | 1.12    | 1.12    |      | Rare 9   | 0.94    | 0.94    |      | Rare 9   | 0.81    | 0.81    |      | Rare 9   | 0.94    | 0.94    |
|      | Rare 10  | 1.11    | 1.11    |      | Rare 10  | 0.93    | 0.93    |      | Rare 10  | 0.81    | 0.81    |      | Rare 10  | 0.94    | 0.94    |
|      | Rare 11  | 1.10    | 1.10    |      | Rare 11  | 0.92    | 0.92    |      | Rare 11  | 0.80    | 0.80    |      | Rare 11  | 0.93    | 0.93    |
|      | Rare 12  | 1.14    | 1.14    |      | Rare 12  | 0.95    | 0.95    |      | Rare 12  | 0.82    | 0.82    |      | Rare 12  | 0.94    | 0.94    |
|      | Rare 13  | 1.13    | 1.13    |      | Rare 13  | 0.94    | 0.94    |      | Rare 13  | 0.81    | 0.81    |      | Rare 13  | 0.94    | 0.94    |
|      | Rare 14  | 1.12    | 1.12    |      | Rare 14  | 0.94    | 0.94    |      | Rare 14  | 0.81    | 0.81    |      | Rare 14  | 0.93    | 0.93    |
|      | Freq 1   | 1.07    | 1.07    |      | Freq 1   | 0.90    | 0.90    |      | Freq 1   | 0.78    | 0.78    |      | Freq 1   | 0.91    | 0.91    |
|      | Freq 2   | 1.07    | 1.07    |      | Freq 2   | 0.90    | 0.90    |      | Freq 2   | 0.77    | 0.77    |      | Freq 2   | 0.90    | 0.90    |
|      | Freq 3   | 1.06    | 1.06    |      | Freq 3   | 0.89    | 0.89    |      | Freq 3   | 0.77    | 0.77    |      | Freq 3   | 0.90    | 0.90    |
|      | Freq 4   | 1.06    | 1.06    |      | Freq 4   | 0.89    | 0.89    |      | Freq 4   | 0.77    | 0.77    |      | Freq 4   | 0.90    | 0.90    |
|      | Freq 5   | 1.07    | 1.07    |      | Freq 5   | 0.89    | 0.89    |      | Freq 5   | 0.77    | 0.77    |      | Freq 5   | 0.90    | 0.90    |
|      | Freq 6   | 1.07    | 1.07    |      | Freq 6   | 0.90    | 0.90    |      | Freq 6   | 0.77    | 0.77    |      | Freq 6   | 0.90    | 0.90    |
|      | Perm 1   | 1.07    | 1.07    |      | Perm 1   | 0.89    | 0.89    |      | Perm 1   | 0.77    | 0.77    |      | Perm 1   | 0.90    | 0.90    |
|      | MAX.     | 1.14    | 1.14    |      | MAX.     | 0.95    | 0.95    |      | MAX.     | 0.82    | 0.82    |      | MAX.     | 0.94    | 0.94    |
| 196  | Rare 1   | 0.68    | 0.68    | 197  | Rare 1   | 0.49    | 0.49    | 198  | Rare 1   | 0.94    | 0.94    | 199  | Rare 1   | 0.99    | 0.99    |
|      | Rare 2   | 0.68    | 0.68    |      | Rare 2   | 0.49    | 0.49    |      | Rare 2   | 0.93    | 0.93    |      | Rare 2   | 0.98    | 0.98    |
|      | Rare 3   | 0.68    | 0.68    |      | Rare 3   | 0.49    | 0.49    |      | Rare 3   | 0.93    | 0.93    |      | Rare 3   | 0.99    | 0.99    |

**CEDIMENTI ELASTICI ED EDOMETRICI**

| Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. | Filo | Combinaz | Ced.El. | Ced.Ed. |
|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|------|----------|---------|---------|
| N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      | N.ro | N.ro     | cm      | cm      |
|      | Rare 4   | 0.67    | 0.67    |      | Rare 4   | 0.49    | 0.49    |      | Rare 4   | 0.93    | 0.93    |      | Rare 4   | 0.98    | 0.98    |
|      | Rare 5   | 0.67    | 0.67    |      | Rare 5   | 0.49    | 0.49    |      | Rare 5   | 0.91    | 0.91    |      | Rare 5   | 0.97    | 0.97    |
|      | Rare 6   | 0.68    | 0.68    |      | Rare 6   | 0.49    | 0.49    |      | Rare 6   | 0.95    | 0.95    |      | Rare 6   | 1.00    | 1.00    |
|      | Rare 7   | 0.67    | 0.67    |      | Rare 7   | 0.49    | 0.49    |      | Rare 7   | 0.94    | 0.94    |      | Rare 7   | 1.00    | 1.00    |
|      | Rare 8   | 0.67    | 0.67    |      | Rare 8   | 0.49    | 0.49    |      | Rare 8   | 0.94    | 0.94    |      | Rare 8   | 0.99    | 0.99    |
|      | Rare 9   | 0.68    | 0.68    |      | Rare 9   | 0.49    | 0.49    |      | Rare 9   | 0.94    | 0.94    |      | Rare 9   | 0.99    | 0.99    |
|      | Rare 10  | 0.68    | 0.68    |      | Rare 10  | 0.49    | 0.49    |      | Rare 10  | 0.93    | 0.93    |      | Rare 10  | 0.99    | 0.99    |
|      | Rare 11  | 0.67    | 0.67    |      | Rare 11  | 0.49    | 0.49    |      | Rare 11  | 0.92    | 0.92    |      | Rare 11  | 0.98    | 0.98    |
|      | Rare 12  | 0.68    | 0.68    |      | Rare 12  | 0.49    | 0.49    |      | Rare 12  | 0.92    | 0.92    |      | Rare 12  | 0.98    | 0.98    |
|      | Rare 13  | 0.68    | 0.68    |      | Rare 13  | 0.49    | 0.49    |      | Rare 13  | 0.91    | 0.91    |      | Rare 13  | 0.97    | 0.97    |
|      | Rare 14  | 0.67    | 0.67    |      | Rare 14  | 0.49    | 0.49    |      | Rare 14  | 0.89    | 0.89    |      | Rare 14  | 0.95    | 0.95    |
|      | Freq 1   | 0.66    | 0.66    |      | Freq 1   | 0.48    | 0.48    |      | Freq 1   | 0.90    | 0.90    |      | Freq 1   | 0.95    | 0.95    |
|      | Freq 2   | 0.65    | 0.65    |      | Freq 2   | 0.47    | 0.47    |      | Freq 2   | 0.89    | 0.89    |      | Freq 2   | 0.95    | 0.95    |
|      | Freq 3   | 0.65    | 0.65    |      | Freq 3   | 0.47    | 0.47    |      | Freq 3   | 0.89    | 0.89    |      | Freq 3   | 0.94    | 0.94    |
|      | Freq 4   | 0.65    | 0.65    |      | Freq 4   | 0.47    | 0.47    |      | Freq 4   | 0.89    | 0.89    |      | Freq 4   | 0.95    | 0.95    |
|      | Freq 5   | 0.65    | 0.65    |      | Freq 5   | 0.47    | 0.47    |      | Freq 5   | 0.89    | 0.89    |      | Freq 5   | 0.94    | 0.94    |
|      | Freq 6   | 0.65    | 0.65    |      | Freq 6   | 0.47    | 0.47    |      | Freq 6   | 0.88    | 0.88    |      | Freq 6   | 0.94    | 0.94    |
|      | Perm 1   | 0.65    | 0.65    |      | Perm 1   | 0.47    | 0.47    |      | Perm 1   | 0.89    | 0.89    |      | Perm 1   | 0.94    | 0.94    |
|      | MAX.     | 0.68    | 0.68    |      | MAX.     | 0.49    | 0.49    |      | MAX.     | 0.95    | 0.95    |      | MAX.     | 1.00    | 1.00    |
| 200  | Rare 1   | 0.86    | 0.86    | 201  | Rare 1   | 0.76    | 0.76    | 202  | Rare 1   | 0.93    | 0.93    | 203  | Rare 1   | 0.99    | 0.99    |
|      | Rare 2   | 0.85    | 0.85    |      | Rare 2   | 0.75    | 0.75    |      | Rare 2   | 0.92    | 0.92    |      | Rare 2   | 0.98    | 0.98    |
|      | Rare 3   | 0.86    | 0.86    |      | Rare 3   | 0.76    | 0.76    |      | Rare 3   | 0.93    | 0.93    |      | Rare 3   | 0.99    | 0.99    |
|      | Rare 4   | 0.85    | 0.85    |      | Rare 4   | 0.75    | 0.75    |      | Rare 4   | 0.92    | 0.92    |      | Rare 4   | 0.97    | 0.97    |
|      | Rare 5   | 0.84    | 0.84    |      | Rare 5   | 0.75    | 0.75    |      | Rare 5   | 0.90    | 0.90    |      | Rare 5   | 0.96    | 0.96    |
|      | Rare 6   | 0.87    | 0.87    |      | Rare 6   | 0.76    | 0.76    |      | Rare 6   | 0.96    | 0.96    |      | Rare 6   | 1.01    | 1.01    |
|      | Rare 7   | 0.86    | 0.86    |      | Rare 7   | 0.76    | 0.76    |      | Rare 7   | 0.95    | 0.95    |      | Rare 7   | 1.00    | 1.00    |
|      | Rare 8   | 0.86    | 0.86    |      | Rare 8   | 0.76    | 0.76    |      | Rare 8   | 0.95    | 0.95    |      | Rare 8   | 1.00    | 1.00    |
|      | Rare 9   | 0.86    | 0.86    |      | Rare 9   | 0.76    | 0.76    |      | Rare 9   | 0.93    | 0.93    |      | Rare 9   | 0.99    | 0.99    |
|      | Rare 10  | 0.85    | 0.85    |      | Rare 10  | 0.76    | 0.76    |      | Rare 10  | 0.92    | 0.92    |      | Rare 10  | 0.98    | 0.98    |
|      | Rare 11  | 0.85    | 0.85    |      | Rare 11  | 0.75    | 0.75    |      | Rare 11  | 0.91    | 0.91    |      | Rare 11  | 0.96    | 0.96    |
|      | Rare 12  | 0.85    | 0.85    |      | Rare 12  | 0.75    | 0.75    |      | Rare 12  | 0.90    | 0.90    |      | Rare 12  | 0.96    | 0.96    |
|      | Rare 13  | 0.85    | 0.85    |      | Rare 13  | 0.75    | 0.75    |      | Rare 13  | 0.89    | 0.89    |      | Rare 13  | 0.95    | 0.95    |
|      | Rare 14  | 0.83    | 0.83    |      | Rare 14  | 0.74    | 0.74    |      | Rare 14  | 0.86    | 0.86    |      | Rare 14  | 0.92    | 0.92    |

