METANODOTTO
INTERCONNESSIONE TAP DN 1400(56"), DP 75 bar
TERMINALE SRG DI MELENDUGNO (LE)

POZZETTO PER VALVOLA DI REGOLAZIONE VDR1 – VDR2

TERMINALE SRG DI MELENDUGNO (LE)

RELAZIONE DI CALCOLO STRUTTURALE

Rev.	Descrizione	Elaborato	Verificato	Approvato Autorizzato	Data
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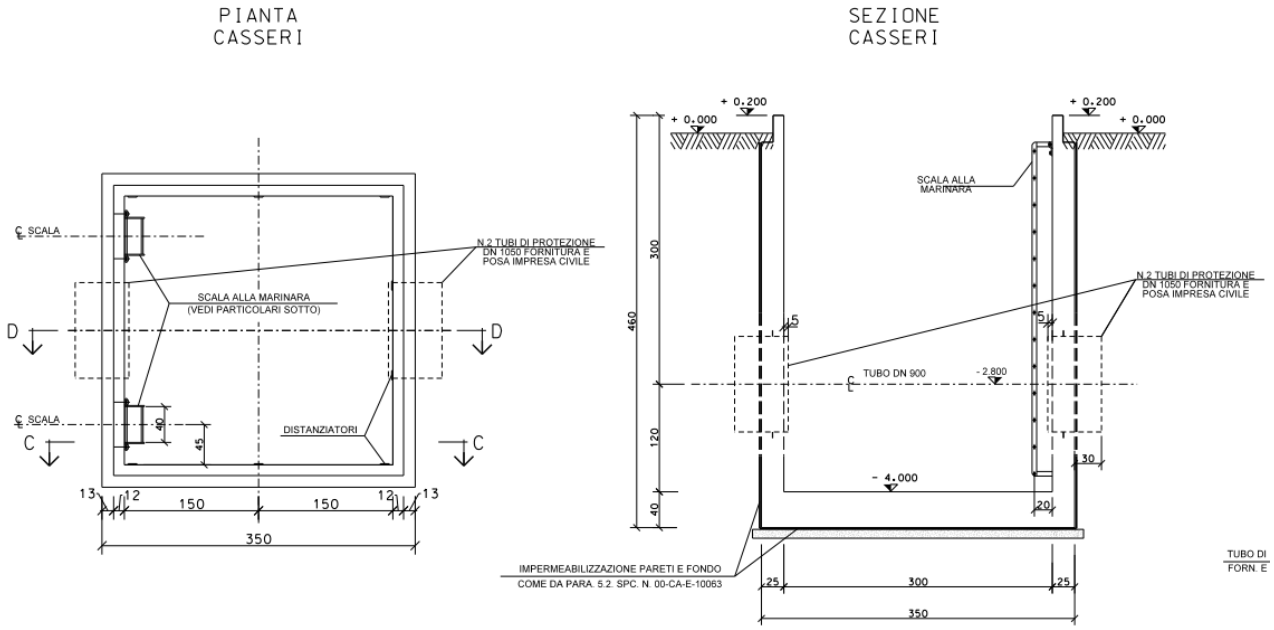
1. RELAZIONE DI CALCOLO DELLE STRUTTURE

1.1. Premessa

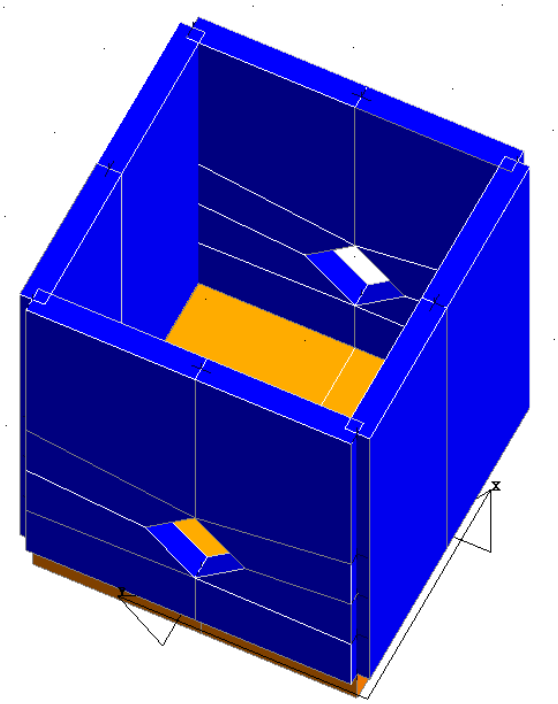
La presente relazione, redatta su incarico di Snam Rete Gas S.p.A., ha come oggetto la realizzazione di un pozzetto in c.a. per ubicazione di valvole di regolazione VDR 1 e 2, ubicato all'interno del nuovo impianto terminale di Melendugno (LE).
Il pozzetto in c.a. ha base quadrata di dimensioni esterne 350 x 350 cm e profondità interrata pari a – 4,00 m (quota di estradosso della platea di fondazione).
Le pareti laterali del pozzetto di spessore 25 cm emergono dal piano campagna di 20 cm.
La platea di base ha spessore di 40 cm ed è realizzata su un getto in calcestruzzo magro con spessore minimo di 10 cm.
Il pozzetto presenta 2 delle 4 pareti laterali forate per il passaggio del tubo DN900 all'interno di due manicotti costituiti da tubi di protezione in acciaio DN 1050 annegati nel getto. Per consentire l'accesso al fondo del pozzetto agli addetti alla manutenzione è previsto l'ancoraggio a parete di due scale alla marinara.
Il pozzetto presenta copertura in cupola di vetroresina.



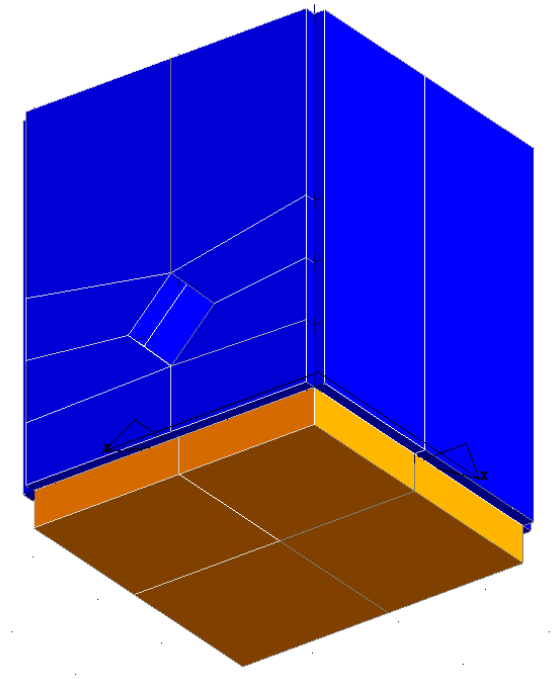
Per i dettagli si rimanda agli elaborati grafici allegati.

Di seguito un'immagine del modello di calcolo realizzato con software CDS.

vista dall'alto del modello di calcolo



vista dal basso del modello di calcolo



1.2. Documenti di riferimento

- REL. RE-GFN-122
  POZZETTO PER VDR1 E VDR2 - RELAZIONE GEOTECNICA E SULLE FONDAZIONI
- REL. RE-MAT-102
  RELAZIONE SUI MATERIALI

Elaborati grafici di riferimento

- DIS. CIV-106
  PLANIMETRIA FONDAZIONI
- DIS. CIV-122
  POZZETTO PER VDR1 E VDR2 - CASSERI ED ARMATURE

1.3. Normativa di riferimento

- Legge 5/11/1971 n.1086 – Norme per la disciplina delle opere in conglomerato cementizio armato, normale e precompresso, e a struttura metallica.
- Legge 2/02/1974 n. 64 – Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.
- Decreto del Presidente della Repubblica 6/06/2001 n.380 – Testo unico delle disposizioni legislative e regolamentari in materia edilizia e s.m.e i.
- Decreto Ministero delle Infrastrutture e dei Trasporti 14/01/2008 – Norme Tecniche per le Costruzioni.
- Circolare 2/02/2009 n. 617 -Istruzioni per l'applicazione delle 'Nuove norme tecniche per le costruzioni' di cui al D.M. 14/01/08.

1.4. Analisi dei carichi

Peso Proprio

Il peso proprio degli elementi strutturali è calcolato in automatico dal programma di calcolo in funzione della geometria modellata, congruente con quella prevista nei disegni di progetto. L'eventuale scostamento tra la volumetria modellata e quella effettiva di progetto è ritenuto trascurabile e comunque ampiamente coperto dal coefficiente parziale di sicurezza pari a 1,30.

Sovraccarichi permanenti portati e variabili

Sono costituiti da:
- peso della copertura in vetroresina;
- peso della tubazione DN900 passante all'interno dei manicotti di diametro nominale DN1050;
- peso valvola di regolazione;
- spinta del terreno a tergo delle pareti.

• La copertura, costituita da una cupola in vetroresina, è sostenuta da un telaio metallico in acciaio inox incernierato lungo un lato ed ancorato direttamente alle pareti del pozzetto; sono indicati a seguire con Pc il peso totale e pc il peso ripartito della copertura lungo il perimetro del pozzetto, comprensivo del peso dei profilati inox.

Pc peso copertura kN	perimetro m	peso copertura kN/m
3	12	0.25

• Il peso della tubazione DN900 grava sulla parte inferiore delle 2 pareti contrapposte del pozzetto ed è valutato in funzione della lunghezza del tratto orizzontale all'interno del pozzetto più i tratti esterni di competenza, assunti pari a 4m ambo i lati del pozzetto (cautelativo).
Poiché in fase di collaudo la tubazione è riempita di acqua, se ne terrà conto nell'analisi dei carichi.
Si assumono cautelativamente i seguenti carichi complessivi:
peso tubazione DN900: 950Kg/m,
ovvero 950Kg/m · 4m = 3800Kg, applicato su entrambe le pareti attraversate dal tubo.

• Il peso della valvola di regolazione è stato assunto pari a quello indicato nel documento EL-MEC-106, pari a 10300Kg, applicato sulla soletta di base del pozzetto.

• La spinta del terreno sulle quattro pareti laterali è stato considerato con presenza di sovraccarico verticale rappresentativo di un automezzo di tipo pesante in transito o in stazionamento, equiparato ad un sovraccarico uniformemente distribuito, assunto cautelativamente pari a 20 kN/m^2.
Si è considerato un terreno standard di riporto a tergo delle pareti, trattandosi di pozzetto realizzato su di uno scavo e successivamente riempito fino al livello 0.00 della quota impianto per l'appunto

con materiale di riporto.

Per il terreno di riporto si assumono le seguenti caratteristiche meccaniche:

$\gamma = 18000\ N/m^3$
$\varphi = 30°$
$c' = 0$

Si considera la condizione di spinta a riposo in quanto trattandosi di pareti rigide si ritengono trascurabili gli spostamenti delle pareti. Il coefficiente di spinta a riposo vale:

$K_0 = 1 - \sin\varphi = 0{,}50$

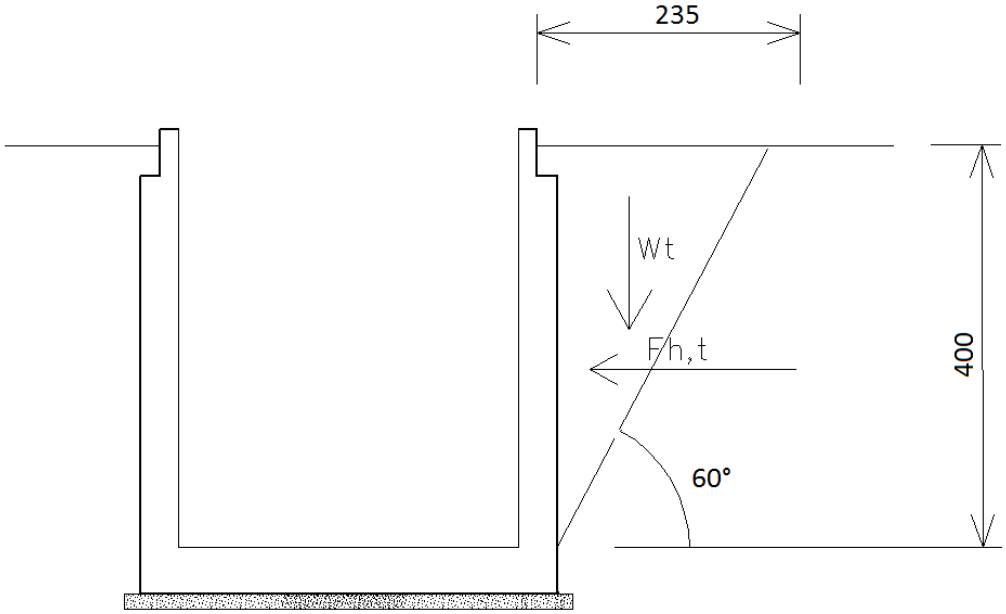
La spinta orizzontale del terreno alla profondità generica z rispetto al piano campagna, comprensiva dell'effetto del sovraccarico verticale, vale pertanto:

$p_h(z) = K_0 \cdot \gamma \cdot z + K_0 \cdot q = 0{,}50 \cdot 18000\ N/m^3 \cdot z + 0{,}50 \cdot 20000\ N/m^2 = 9000\ N/m^3 \cdot z + 10000\ N/m^2$

Per z=0 si ha:

$p_h(z=0m) = 10000\ N/m^2$
$p_h(z=4{,}00m) = 46000\ N/m^2$

Si considera anche l'incremento sismico della spinta del terreno, con approccio pseudo-statico. Tale incremento è pari alla forza di inerzia del cuneo di spinta del terreno a tergo del muro di sostegno, applicato a metà altezza del muro stesso, trattandosi di muri che non subiscono spostamenti relativi significativi rispetto al terreno ($\beta_m = 1$) .
Si fa riferimento allo schema seguente per il calcolo dell'incremento sismico spinta terreno (misure in centimetri).



La componente orizzontale di forza di inerzia sismica del volume di spinta a tergo del muro vale:

$F_{h,t} = W_t \cdot K_h$

Con:

$K_h = \beta_m \cdot (a_{max} / g)$

$a_{max} = S_S \cdot S_T \cdot a_g$

Nel caso in questione si ha:

$W_t = (2{,}35m \cdot 4{,}00m / 2) \cdot 18000N/m^3 = 84600\ N$

$a_{max} = 1{,}20 \cdot 1{,}00 \cdot 0{,}091 \cdot g = 0{,}109 \cdot g$

$K_h = 1 \cdot (0{,}109 \cdot g\ / g) = 0{,}109$

Pertanto: $F_{h,t} = 84600\ N \cdot 0{,}109 = 9221\ N$

Ovvero, la pressione esercitata sulla parete verticale vale:

$p_h (z) = 9221\ N / 4{,}00\ m = 2306\ N/m^2$

Azione del vento

L'azione del vento non è stata presa in considerazione in quanto trattasi di struttura interrata su cui il vento non produce effetti.

Azione della neve

Il carico della neve agisce sulla copertura del pozzetto.

Il carico di neve al suolo q_{sk} è valutato in conformità al DM 14-01-08 con la seguente espressione:
$q_s = \mu_i \cdot q_{sk} \cdot C_e \cdot C_t$
con q_{sk} valore caratteristico di riferimento del carico di neve al suolo per un periodo di ritorno di 50 anni dipendente dalla zona climatica del sito in oggetto e dall'altitudine as sul livello del mare:
-Zona I Alpina: q_{sk}=1.50 kN/mq per $a_s \leq 200$ m s.l.m.
$q_{sk}=1.39\ (1+(a_s/728)^2)$ kN/mq per as>200 m s.l.m.;
-Zona I Mediterranea: q_{sk}=1.50 kN/mq per $a_s \leq 200$ m s.l.m.;
$q_{sk}=1.35\ (1+(a_s/602)^2)$ kN/mq per a_s>200 m s.l.m.;
-Zona II: q_{sk}=1.00 kN/mq per $a_s \leq 200$ m s.l.m.;
$q_{sk}=0.85\ (1+(a_s/481)^2)$ kN/mq per a_s>200 m s.l.m.;
-Zona III: q_{sk} =0.60 kN/mq per $a_s \leq 200$ m s.l.m.;

q_{sk} =0.51(1+(a_s/481)^2) kN/mq per a_s>200 m s.l.m.;

μ_i coefficiente di forma dipendente dall'angolo α di inclinazione della superficie esposta rispetto all'orizzontale:
- se la neve non risulta impedita di scivolare 0°≤α≤30° μ_i=0.8, per 30°<α<60° μ_i=0.8(60α)/30, per α>60° μi=0;
- se l'estremità della superficie termina con un parapetto o altra ostruzione μ_i =0.8 indipendentemente dal valore dell'angolo α;

C_e coefficiente di esposizione valutato in funzione delle diverse classi di topografia:
- per area "battuta dai venti" C_e=0.9;
- per area "normale" C_e=1.0;
- per area "riparata" C_e=1.1;

C_t coefficiente termico che si pone pari a 1.

L'altitudine a_s del sito in esame è pari a 5 m s.l.m e la zona climatica di appartenenza è la Zona III; il carico della neve corrispondente ai parametri reali del sito risulta q_{sk}=0,60 kN/mq per a_s<200 m s.l.m.;.
E' stato considerato il carico della neve agente sulla copertura delle cappe di insonorizzazione il cui angolo di inclinazione è α=0°.

Calcolo del carico della neve: $q_s = \mu_i \cdot q_{sk} \cdot C_e \cdot C_t = 0,8 \cdot 0,60 \cdot 1 \cdot 1 = 0,48$ kN/m^2

L'area su cui agisce il carico neve è pari alla dimensione in pianta della copertura, ovvero 3,50m x 3,50m = 12,25 m^2 , pertanto il carico unitario lineare sulle pareti vale:
0,48 kN/m^2 · 12,25 m^2 / (4 + 4 + 3,50 + 3,50) = 0,40 kN/m

Azione del sisma
Il calcolo dell'azione sismica di progetto è effettuato, in conformità al DM 14/01/2008, dal programma di calcolo.

Per il dettaglio sui carichi, sulle modalità e combinazioni di carico, si rimanda alla relazione di calcolo in appendice.

2. APPENDICE

Nella presente appendice è contenuto l'output del programma di calcolo CDS.

Nota sulle verifiche degli elementi strutturali presenti nel modello (piastre, pareti, travi, pilastri)
Nelle pagine seguenti sono riportati i quantitativi minimi di armatura richiesti dal programma di calcolo. Per questioni pratiche legate ad esigenze costruttive, potrà accadere che detti quantitativi non corrispondano esattamente a quanto riportato negli elaborati grafici di progetto. In ogni caso, i quantitativi prescritti negli elaborati grafici risulteranno sempre non inferiori a quelli minimi ottenuti dai calcoli di verifica.

RELAZIONE DI CALCOLO

Sono illustrati con la presente i risultati dei calcoli che riguardano il progetto delle armature, la verifica delle tensioni di lavoro dei materiali e del terreno.

• 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. 14/01/2008 pubblicato nel suppl. 30 G.U. 29 del 4/02/2008, nonché la Circolare del Ministero Infrastrutture e Trasporti del 2 Febbraio 2009, n. 617 "*Istruzioni per l'applicazione delle nuove norme tecniche per le costruzioni*".

• METODI DI CALCOLO

I metodi di calcolo adottati per il calcolo sono i seguenti:

1) Per i carichi statici: *METODO DELLE DEFORMAZIONI*;

2) Per i carichi sismici: metodo dell'*ANALISI MODALE* o dell'*ANALISI SISMICA STATICA EQUIVALENTE*.

Per lo svolgimento del calcolo si è accettata l'ipotesi che, in corrispondenza dei piani sismici, i solai siano infinitamente rigidi nel loro
piano e che le masse ai fini del calcolo delle forze di piano siano concentrate alle loro quote.

• CALCOLO SPOSTAMENTI E CARATTERISTICHE

II calcolo degli spostamenti e delle caratteristiche viene effettuato con il metodo degli elementi finiti (**F.E.M.**).

Possono essere inseriti due tipi di elementi:

1) Elemento monodimensionale asta (*beam*) che unisce due nodi aventi ciascuno 6 gradi di libertà. Per maggiore precisione di calcolo, viene tenuta in conto anche la deformabilità a taglio e quella assiale di questi elementi. Queste aste, inoltre, non sono considerate flessibili da nodo a nodo ma hanno sulla parte iniziale e finale due tratti infinitamente rigidi formati dalla parte di trave inglobata nello spessore del pilastro; questi tratti rigidi forniscono al nodo una dimensione reale.

2) L'elemento bidimensionale shell (*quad*) che unisce quattro nodi nello spazio. Il suo comportamento è duplice, funziona da lastra per i carichi agenti sul suo piano, da piastra per i carichi ortogonali.

Assemblate tutte le matrici di rigidezza degli elementi in quella della struttura spaziale, la risoluzione del sistema viene perseguita tramite il *metodo di Cholesky*.

Ai fini della risoluzione della struttura, gli spostamenti X e Y e le rotazioni attorno l'asse verticale Z di tutti i nodi che giacciono su di un impalcato dichiarato rigido sono mutuamente vincolati.

- **RELAZIONE SUI MATERIALI**

Le caratteristiche meccaniche dei materiali sono descritti nei tabulati riportati nel seguito per ciascuna tipologia di materiale utilizzato.

- **ANALISI SISMICA DINAMICA A MASSE CONCENTRATE**

L'analisi sismica dinamica è stata svolta con il metodo dell'analisi modale; la ricerca dei modi e delle relative frequenze è stata perseguita con il metodo delle "*iterazioni nel sottospazio*".

I modi di vibrazione considerati sono in numero tale da assicurare l'eccitazione di più dell'85% della massa totale della struttura.

Per ciascuna direzione di ingresso del sisma si sono valutate le forze modali che vengono applicate su ciascun nodo spaziale (tre forze, in direzione X, Y e Z, e tre momenti).

Per la verifica della struttura si è fatto riferimento all'analisi modale, pertanto sono prima calcolate le sollecitazioni e gli spostamenti modali e poi viene calcolato il loro valore efficace.

I valori stampati nei tabulati finali allegati sono proprio i suddetti valori efficaci e pertanto l'equilibrio ai nodi perde di significato. I valori delle sollecitazioni sismiche sono combinate linearmente (in somma e in differenza) con quelle per carichi statici per ottenere le sollecitazioni per sisma nelle due direzioni di calcolo.

Gli angoli delle direzioni di ingresso dei sismi sono valutati rispetto all'asse X del sistema di riferimento globale.

- **VERIFICHE**

Le verifiche, svolte secondo il metodo degli stati limite ultimi e di esercizio, si ottengono inviluppando 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 rigidezza 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 rigidezza relativa delle varie travate
convergenti su ogni nodo.

Le verifiche per gli elementi bidimensionali (setti) vengono effettuate sovrapponendo lo stato tensionale del comportamento a lastra e di quello a piastra. Vengono calcolate le armature delle due facce dell'elemento bidimensionale disponendo i ferri in due direzioni ortogonali.

- **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*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 ≥ 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 compresa fra 0,3% e 4% della sezione effettiva e non minore di 0,10*Ned/fyd;

Barre longitudinali con diametro ≥ 12 mm;

Diametro staffe ≥ 6 mm e comunque ≥ 1/4 del diametro max delle barre longitudinali, con interasse non maggiore di 30 cm.

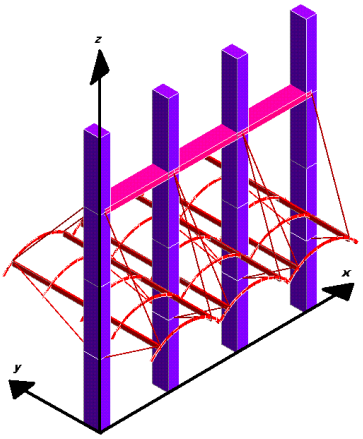
In zona sismica l'armatura longitudinale è almeno pari all'1% della sezione effettiva; il passo delle staffe di contenimento è non superiore alla più piccola delle quantità seguenti:

- 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.

- **SISTEMI DI RIFERIMENTO**

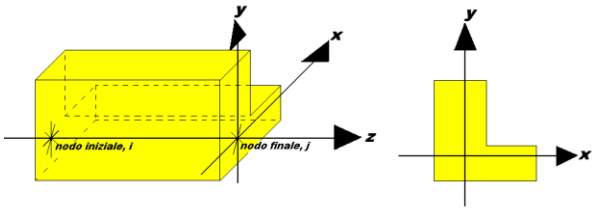
1) SISTEMA GLOBALE DELLA STRUTTURA SPAZIALE

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:



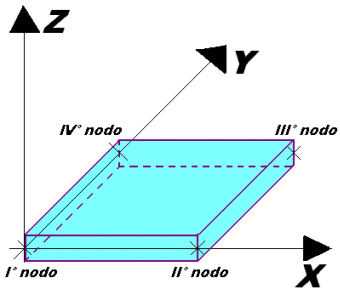
2) SISTEMA LOCALE DELLE ASTE

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:



3) SISTEMA LOCALE DELL'ELEMENTO SHELL

Il sistema di riferimento locale dell'elemento shell è costituito da una terna destra di assi cartesiani ortogonali che ha l'asse X coincidente con la direzione fra il primo ed il secondo nodo di input, l'asse Y giacente nel piano dello shell e l'asse Z in direzione dello spessore:



- **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.

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa dell'archivio materiali.

Materiale N.ro : *Numero identificativo del materiale in esame*

Densità : *Peso specifico del materiale*

Ex * 1E3 : *Modulo elastico in direzione x moltiplicato per 10 al cubo*

Ni.x : *Coefficiente di Poisson in direzione x*

Alfa.x : *Coefficiente di dilatazione termica in direzione x*

Ey * 1E3 : *Modulo elastico in direzione y moltiplicato per 10 al cubo*

Ni.y : *Coefficiente di Poisson in direzione y*

Alfa.y : *Coefficiente di dilatazione termica in direzione y*

E11 * 1E3 : *Elemento della matrice elastica moltiplicato per 10 al cubo, 1a riga - 1a colonna*

E12 * 1E3 : *Elemento della matrice elastica moltiplicato per 10 al cubo, 1a riga - 2a colonna*

E13 * 1E3 : *Elemento della matrice elastica moltiplicato per 10 al cubo, 1a riga - 3a colonna*

E22 * 1E3 : *Elemento della matrice elastica moltiplicato per 10 al cubo, 2a riga - 2a colonna*

E23 * 1E3 : *Elemento della matrice elastica moltiplicato per 10 al cubo, 2a riga - 3a colonna*

E33 * 1E3 : *Elemento della matrice elastica moltiplicato per 10 al cubo, 3a riga - 3a colonna*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta appresso la spiegazione delle sigle usate nelle tabelle riassuntive dei criteri di progetto per le aste in elevazione, per quelle di fondazione, per i pilastri e per i setti.

Crit.N.ro : *Numero indicativo del criterio di progetto*
Elem. : *Tipo di elemento strutturale*
%Rig.Tors. : *Percentuale di rigidezza torsionale*
Mod. E : *Modulo di elasticità normale*
Poisson : *Coefficiente di Poisson*
Sgmc : *Tensione massima di esercizio del calcestruzzo*
tauc0 : *Tensione tangenziale minima*
tauc1 : *Tensione tangenziale massima*
Sgmf : *Tensione massima di esercizio dell'acciaio*
Om. : *Coefficiente di omogeneizzazione*
Gamma : *Peso specifico del materiale*
Copristaffa : *Distanza tra il lembo esterno della staffa ed il lembo esterno della sezione in calcestruzzo*
Fi min. : *Diametro minimo utilizzabile per le armature longitudinali*
Fi st. : *Diametro delle staffe*
Lar. st. : *Larghezza massima delle staffe*
Psc : *Passo di scansione per i diagrammi delle caratteristiche*
Pos.pol. : *Numero di posizioni delle armature per la verifica di sezioni poligonali*
D arm. : *Passo di incremento dell'armatura per la verifica di sezioni poligonali*
Iteraz. : *Numero massimo di iterazioni per la verifica di sezioni poligonali*
Def. Tag. : *Deformabilità a taglio (si, no)*
%Scorr.Staf. : *Percentuale di scorrimento da far assorbire alle staffe*
P.max staffe : *Passo massimo delle staffe*
P.min.staffe : *Passo minimo delle staffe*
tMt min. : *Tensione di torsione minima al di sotto del quale non si arma a torsione*
Ferri parete : *Presenza di ferri di parete a taglio*
Ecc.lim. : *Eccentricità M/N limite oltre la quale la verifica viene effettuata a flessione pura*
Tipo ver. : *Tipo di verifica (0 = solo Mx; 1 = Mx e My separate; 2 = deviata)*
Fl.rett. : *Flessione retta forzata per sezioni dissimmetriche ma simmetrizzabili (0 = no; 1 = si)*
Den.X pos. : *Denominatore della quantità q*l*l per determinare il momento Mx minimo per la copertura del diagramma positivo*
Den.X neg. : *Denominatore della quantità q*l*l per determinare il momento Mx minimo per la copertura del diagramma negativo*
Den.Y pos. : *Denominatore della quantità q*l*l per determinare il momento My minimo per la copertura del diagramma positivo*
Den.Y neg. : *Denominatore della quantità q*l*l per determinare il momento My minimo per la copertura del diagramma negativo*
%Mag.car. : *Percentuale di maggiorazione dei carichi statici della prima combinazione di carico*
Linear. : *Coefficiente descrittivo del comportamento dell'asta:*
1 = comportamento lineare sia a trazione che a compressione
2 = comportamento non lineare sia a trazione che a compressione.
3 = comportamento lineare solo a trazione.
4 = comportamento non lineare solo a trazione.
5 = comportamento lineare solo a compressione.

6 = comportamento non lineare solo a compressione.

Appesi : *Flag di disposizione del carico sull'asta (1 = appeso, cioè applicato all'intradosso; 0 = non appeso, cioè applicato all'estradosso)*
Min. T/sigma : *Verifica minimo T/sigma (1 = si; 0 = no)*
Verif.Alette : *Verifica alette travi di fondazione (1 = si; 0 = no)*
Kwinkl. : *Costante di sottofondo del terreno*

Si riporta appresso la spiegazione delle sigle usate nelle tabelle riassuntive dei criteri di progetto per le verifiche agli stati limite.

Cri.Nro : *Numero identificativo del criterio di progetto*
Tipo Elem. : *Tipo di elemento: trave di elevazione, trave di fondazione, pilastro, setto, setto elastico ("SHela")*
fck : *Resistenza caratteristica del calcestruzzo*
fcd : *Resistenza di calcolo del calcestruzzo*
rcd : *Resistenza di calcolo a flessione del calcestruzzo (massimo del diagramma parabola rettangolo)*
fyk : *Resistenza caratteristica dell'acciaio*
fyd : *Resistenza di calcolo dell'acciaio*
Ey : *Modulo elastico dell'acciaio*
ec0 : *Deformazione limite del calcestruzzo in campo elastico*
ecu : *Deformazione ultima del calcestruzzo*
eyu : *Deformazione ultima dell'acciaio*
Ac/At : *Rapporto dell'incremento fra l'armatura compressa e quella tesa*
Mt/Mtu : *Rapporto fra il momento torcente di calcolo e il momento torcente resistente ultimo del calcestruzzo al di sotto del quale non si arma a torsione*
Wra : *Ampiezza limite della fessura per combinazioni rare*
Wfr : *Ampiezza limite della fessura per combinazioni frequenti*
Wpe : *Ampiezza limite della fessura per combinazioni permanenti*
σc **Rara** : *Sigma massima del calcestruzzo per combinazioni rare*
σc **Perm** : *Sigma massima del calcestruzzo per combinazioni permanenti*
σf **Rara** : *Sigma massima dell'acciaio per combinazioni rare*
SpRar : *Rapporto fra la lunghezza dell'elemento e lo spostamento massimo per combinazioni rare*
SpPer : *Rapporto fra la lunghezza dell'elemento e lo spostamento massimo per combinazioni permanenti*
Coef.Visc.: : *Coefficiente di viscosità*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta appresso la spiegazione delle sigle usate nella tabella coordinate nodi.

Nodo3d : *Numero del nodo spaziale*

Coord.X : *Coordinata X del punto nel sistema di riferimento globale*

Coord.Y : *Coordinata Y del punto nel sistema di riferimento globale*

Coord.Z : *Coordinata Z del punto nel sistema di riferimento globale*

Filo : *Numero del filo per individuare le travate in c.a.*

Piano Sism. : *Numero del piano rigido di appartenenza del nodo*

Peso : *Peso sismico del nodo; ogni canale di carico è stato moltiplicato per il proprio coefficiente di riduzione del sovraccarico*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta appresso la spiegazione delle sigle usate nella tabella dati di shell spaziale.

Shell : *Numero dello shell spaziale*

Filo 1 : *Numero del filo del primo nodo*

Filo 2 : *Numero del filo del secondo nodo*

Filo 3 : *Numero del filo del terzo nodo*

Filo 4 : *Numero del filo del quarto nodo*

Quota 1 : *Quota del primo nodo*

Quota 2 : *Quota del secondo nodo*

Quota 3 : *Quota del terzo nodo*

Quota 4 : *Quota del quarto nodo*

Nod3d 1 : *Numero del primo nodo*

Nod3d 2 : *Numero del secondo nodo*

Nod3d 3 : *Numero del terzo nodo*

Nod3d 4 : *Numero del quarto nodo*

Sez. N.ro : *Numero in archivio della sezione*

Spess : *Spessore dello shell*

Kwinkl : *Costante di Winkler del terreno se l'elemento è di fondazione; 0 se è di elevazione*

Tipo Mat. : *Numero dell'archivio per il tipo di materiale*

Mesh X : *Numero di suddivisioni del macro elemento sull'asse X locale*

Mesh Y : *Numero di suddivisioni del macro elemento sull'asse Y locale*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta appresso la spiegazione delle sigle usate nella tabella vincoli nodali esterni:

- **Nodo3d** : Numero del nodo spaziale
- **Codice** : Codice esplicito per la determinazione del vincolo:

I = incastro
C = cerniera completa
W = *Winkler*
E = esplicito
P = plinto
U = Vincolo unilatero

- **Tx** : Rigidezza traslante in direzione X sul sistema di riferimento locale del vincolo (-1 spostamento impedito)
- **Ty** : Rigidezza traslante in direzione Y sul sistema di riferimento locale del vincolo (-1 spostamento impedito)
- **Tz** : Rigidezza traslante in direzione Z sul sistema di riferimento locale del vincolo (-1 spostamento impedito)
- **Rx** : Rigidezza rotazionale in direzione X sul sistema di riferimento locale del vincolo (-1 spostamento impedito)
- **Ry** : Rigidezza rotazionale in direzione Y sul sistema di riferimento locale del vincolo (-1 spostamento impedito)
- **Rz** : Rigidezza rotazionale in direzione Z sul sistema di riferimento locale del vincolo (-1 spostamento impedito)

SCOSTAMENTO PER I VINCOLI ELASTICI

- **Tr. X** : Scostamento in direzione X globale del sistema di riferimento locale del vincolo
- **Tr. Y** : Scostamento in direzione Y globale del sistema di riferimento locale del vincolo
- **Tr. Z** : Scostamento in direzione Z globale del sistema di riferimento locale del vincolo
- **Azim** : Angolo formato fra la proiezione dell'asse Z locale sul piano XY e l'asse X globale (azimut)
- **CoZe** : Angolo formato fra l'asse Z locale e l'asse Z globale (complemento allo zenit)
- **Ass.** : Rotazione attorno dell'asse Z locale del sistema di riferimento locale

ATTRIBUTO DI VERSO PER I VINCOLI UNILATERI

- **Tr. X** : Attributo sul verso dello spostamento impedito dal vincolo unilatero lungo la direzione X
- **Tr. Y** : Attributo sul verso dello spostamento impedito dal vincolo unilatero lungo la direzione Y
- **Tr. Z** : Attributo sul verso dello spostamento impedito dal vincolo unilatero lungo la direzione Z
- **Rot.X** : Attributo sul verso della rotazione impedita dal vincolo unilatero lungo l'asse vettore X
- **Rot.Y** : Attributo sul verso della rotazione impedita dal vincolo unilatero lungo l'asse vettore Y
- **Rot.Z** : Attributo sul verso della rotazione impedita dal vincolo unilatero lungo l'asse vettore Z

Gli attributi sul verso degli spostamenti e delle rotazioni possono assumere i seguenti valori:

1 = Impedisce gli spostamenti sia positivi che negativi
3 = Impedisce solo gli spostamenti positivi
5 = Impedisce solo gli spostamenti negativi

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa della composizione degli elementi bidimensionali e la numerazione dei vertici dei microelementi in cui questi vengono suddivisi.

Macro N.ro :
Col.1/2/3/4/5/6 :
Micro N.ro :
Macro N.ro :
Vert.1 :
Vert.2 :
Vert.3 : *Numero del terzo vertice del microelemento*

Vert.4 : *Numero del quarto vertice del microelemento*

ARCHIVIO MATERIALI PIASTRE: MATRICE ELASTICA

Materiale N.ro	Densita' N/mc	Ex*1E3 N/mmq	Ni.x	Alfa.x (*1E5)	Ey*1E3 N/mmq	Ni.y	Alfa.y (*1E5)	E11*1E3 N/mmq	E12*1E3 N/mmq	E13*1E3 N/mmq	E22*1E3 N/mmq	E23*1E3 N/mmq	E33*1E3 N/mmq
1	25000	32.8	0.20	1.00	32.8	0.20	1.00	34.2	6.8	0.0	34.2	0.0	13.7

CRITERI DI PROGETTO

IDENTIF.		CARATTERISTICHE DEL MATERIALE							DURABILITA'			CARATTER.COSTRUTTIVE						FLAG	
Crit N.ro	Elem.	% Rig Tors.	% Rig Fless	Classe CLS	Classe Acciaio	Mod. El N/mmq	Pois son	Gamma N/mc	Tipo Ambiente	Tipo Armatura	Toll. Copr.	Copr staf	Copr ferr	Fi min	Fi st	Lun sta	Li n.	App esi
1	ELEV.	60	100	C30/37	B450C	32836.5	0.33	25000	ORDIN. X0	POCO SENS.	0.00	3.0	4.7	14	10	60	0	0
3	PILAS	60	100	C30/37	B450C	32836.5	0.33	25000	ORDIN. X0	POCO SENS.	0.00	3.0	4.7	14	10	50	1	

CRITERI DI PROGETTO

CRITERI PER IL CALCOLO AGLI STATI LIMITE ULTIMI E DI ESERCIZIO

Cri Nro	Tipo Elem	fck	fcd	rcd	fyk	ftk	fyd	Ey	ec0	ecu	eyu	At/ Ac	Mt/ Mtu	Wra mm	Wfr mm	Wpe mm	σcRar	σcPer	σfRar	Spo Rar	Spo Fre	Spo Per	Coe Vis	euk
			----------		N/mmq		----------										---	N/mmq	---					
1	ELEV.	30.00	17.00	17.00	450.0	450.0	391.3	210000.0	0.20	0.35	1.00	50	10		0.4	0.3	18.00	13.50	360.0				2.0	0.08
3	PILAS	30.00	17.00	17.00	450.0	450.0	391.3	210000.0	0.20	0.35	1.00	50	10		0.4	0.3	18.00	13.50	360.0				2.0	0.08

MATERIALI SHELL IN C.A.

IDENT	%	CARATTERISTICHE					DURABILITA'			COPRIFERRO	
Mat. N.ro	Rig Fls	Classe CLS	Classe Acciaio	Mod. E N/mmq	Pois- son	Gamma N/mc	Tipo Ambiente	Tipo Armatura	Toll. Copr.	Setti (cm)	Piastre (cm)
1	100	C30/37	B450C	32836.5	0.20	25000	AGGR. CX4	POCO SENS.	0.00	3.5	3.5

MATERIALI SHELL IN C.A.

CRITERI PER IL CALCOLO AGLI STATI LIMITE ULTIMI E DI ESERCIZIO

Cri Nro	Tipo Elem	fck	fcd	rcd	fyk	ftk	fyd	Ey	ec0	ecu	eyu	At/ Ac	Mt/ Mtu	Wra mm	Wfr mm	Wpe mm	σcRar	σcPer	σfRar	Spo Rar	Spo Fre	Spo Per	Coe Vis	euk
			----------		N/mmq		----------										---	N/mmq	---					
1	SETTI	30.00	17.00	17.00	450.0	450.0	391.3	210000.0	0.20	0.35	1.00	50			0.3	0.2	18.00	13.50	360.0					

CRITERI DI PROGETTO GEOTECNICI - FONDAZIONI SUPERFICIALI E SU PALI

IDEN	COSTANTE WINKLER			IDEN	COSTANTE WINKLER			IDEN	COSTANTE WINKLER	
Crit N.ro	KwVert N/cmc	KwOriz. N/cmc		Crit N.ro	KwVert N/cmc	KwOriz. N/cmc		Crit N.ro	KwVert N/cmc	KwOriz. N/cmc
1	150.0	15.0		2	100.0	0.0		3	40.0	0.0

DATI GENERALI DI STRUTTURA

DATI GENERALI DI STRUTTURA			
Massima dimens. dir. X (m)	3.50	Altezza edificio (m)	2.70
Massima dimens. dir. Y (m)	3.50	Differenza temperatura(°C)	15
PARAMETRI SISMICI			
Vita Nominale (Anni)	100	Classe d' Uso	QUARTA
Longitudine Est (Grd)	9.39123	Latitudine Nord (Grd)	45.51364
Categoria Suolo	C	Coeff. Condiz. Topogr.	1.00000
Sistema Costruttivo Dir.1	Utente	Sistema Costruttivo Dir.2	Utente
Regolarita' in Altezza	SI (KR=1)	Regolarita' in Pianta	SI
Direzione Sisma (Grd)	0	Sisma Verticale	ASSENTE
Effetti P/Delta	NO	Quota di Zero Sismico (m)	0.00000
PARAMETRI SPETTRO ELASTICO - SISMA S.L.D.			
Probabilita' Pvr	0.63	Periodo di Ritorno Anni	201.00
Accelerazione Ag/g	0.05	Periodo T'c (sec.)	0.26
Fo	2.56	Fv	0.77
Fattore Stratigrafia'Ss'	1.50	Periodo TB (sec.)	0.14
Periodo TC (sec.)	0.43	Periodo TD (sec.)	1.80
PARAMETRI SPETTRO ELASTICO - SISMA S.L.V.			
Probabilita' Pvr	0.10	Periodo di Ritorno Anni	1898.00
Accelerazione Ag/g	0.10	Periodo T'c (sec.)	0.30
Fo	2.62	Fv	1.13
Fattore Stratigrafia'Ss'	1.50	Periodo TB (sec.)	0.16
Periodo TC (sec.)	0.47	Periodo TD (sec.)	2.01
PARAMETRI SPETTRO ELASTICO - SISMA S.L.C.			
Probabilita' Pvr	0.05	Periodo di Ritorno Anni	2475.00
Accelerazione Ag/g	0.11	Periodo T'c (sec.)	0.31
Fo	2.62	Fv	1.19
Fattore Stratigrafia'Ss'	1.50	Periodo TB (sec.)	0.16
Periodo TC (sec.)	0.47	Periodo TD (sec.)	2.05

PARAMETRI SISTEMA COSTRUTTIVO ESPLICITO - D I R. 1			
Fattore di struttura 'q'	1.00		
PARAMETRI SISTEMA COSTRUTTIVO ESPLICITO - D I R. 2			
Fattore di struttura 'q'	1.00		
COEFFICIENTI DI SICUREZZA PARZIALI DEI MATERIALI			
Acciaio per CLS armato	1.15	Calcestruzzo CLS armato	1.50
Legno per comb. eccez.	1.00	Legno per comb. fondament.:	1.30
Livello conoscenza	LC2		
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		

ATTRIBUTI TAMPONATURE SU PIANI SISMICI

IDENTIFICATIV		ATTRIBUTI	
Piano N.ro	Quota (m)	Irregol Pianta	Piano Soffice
1	2.70	NO	NO

COORDINATE DEI NODI

IDENT.	POSIZIONE NODO			ATTRIBUTI		
Nodo3d N.ro	Coord.X (m)	Coord.Y (m)	Coord.Z (m)	Filo N.ro	Piano Sism.	Peso (kN)
1	0.00	0.00	0.00	1	0	0.0
2	0.13	0.00	0.00	2	0	0.0
3	0.00	0.13	0.00	5	0	0.0
4	0.13	0.13	0.00	6	0	0.0
5	1.69	0.13	0.00	18	0	0.0
6	1.69	0.00	0.00	17	0	0.0
7	3.38	0.13	0.00	7	0	0.0
8	3.38	0.00	0.00	3	0	0.0
9	3.50	0.13	0.00	8	0	0.0
10	3.50	0.00	0.00	4	0	0.0
11	3.38	1.69	0.00	24	0	0.0
12	3.50	1.69	0.00	25	0	0.0
13	1.69	1.69	0.00	23	0	0.0
14	0.13	1.69	0.00	22	0	0.0
15	0.00	1.69	0.00	21	0	0.0
16	0.00	3.38	0.00	9	0	0.0
17	0.13	3.38	0.00	10	0	0.0
18	1.69	3.38	0.00	19	0	0.0
19	3.38	3.38	0.00	11	0	0.0
20	3.50	3.38	0.00	12	0	0.0
21	3.50	3.50	0.00	16	0	0.0
22	3.38	3.50	0.00	15	0	0.0
23	1.69	3.50	0.00	20	0	0.0
24	0.13	3.50	0.00	14	0	0.0
25	0.00	3.50	0.00	13	0	0.0
26	0.13	3.38	2.70	10	1	5.4
27	0.13	1.69	2.70	22	1	5.4
28	0.13	0.13	2.70	6	1	5.2
29	1.69	0.13	2.70	18	1	5.4
30	3.38	0.13	2.70	7	1	5.4
31	3.38	1.69	2.70	24	1	5.4
32	3.38	3.38	2.70	11	1	5.6
33	1.69	3.38	2.70	19	1	5.4
34	3.38	1.69	0.90	24	0	0.0
35	0.13	1.69	0.90	22	0	0.0

DATI SHELL SPAZIALI

IDENTIFICAZIONE													CARATTERISTICHE SEZIONE				SUDDIVIS.	
Shell N.ro	Filo 1	Filo 2	Filo 3	Filo 4	Quota1 (m)	Quota2 (m)	Quota3 (m)	Quota4 (m)	Nod3d 1	Nod3d 2	Nod3d 3	Nod3d 4	Sez. N.ro	Spess (cm)	Kwinkl N/cmc	Tipo Mat.	MeshX	MeshY
1	1	2	6	5	0.00	0.00	0.00	0.00	1	2	4	3	1	40.0	100.0	1	1	1
2	6	2	17	18	0.00	0.00	0.00	0.00	4	2	6	5	1	40.0	100.0	1	1	1
3	18	17	3	7	0.00	0.00	0.00	0.00	5	6	8	7	1	40.0	100.0	1	1	1
4	7	3	4	8	0.00	0.00	0.00	0.00	7	8	10	9	1	40.0	100.0	1	1	1
5	7	8	25	24	0.00	0.00	0.00	0.00	7	9	12	11	1	40.0	100.0	1	1	1
6	7	24	23	18	0.00	0.00	0.00	0.00	7	11	13	5	1	40.0	100.0	1	1	1
7	18	23	22	6	0.00	0.00	0.00	0.00	5	13	14	4	1	40.0	100.0	1	1	1

DATI SHELL SPAZIALI

IDENTIFICAZIONE													CARATTERISTICHE SEZIONE				SUDDIVIS.	
Shell N.ro	Filo 1	Filo 2	Filo 3	Filo 4	Quota1 (m)	Quota2 (m)	Quota3 (m)	Quota4 (m)	Nod3d 1	Nod3d 2	Nod3d 3	Nod3d 4	Sez. N.ro	Spess (cm)	Kwinkl N/cmc	Tipo Mat.	MeshX	MeshY
8	6	22	21	5	0.00	0.00	0.00	0.00	4	14	15	3	1	40.0	100.0	1	1	1
9	21	22	10	9	0.00	0.00	0.00	0.00	15	14	17	16	1	40.0	100.0	1	1	1
10	22	23	19	10	0.00	0.00	0.00	0.00	14	13	18	17	1	40.0	100.0	1	1	1
11	19	23	24	11	0.00	0.00	0.00	0.00	18	13	11	19	1	40.0	100.0	1	1	1
12	24	25	12	11	0.00	0.00	0.00	0.00	11	12	20	19	1	40.0	100.0	1	1	1
13	12	16	15	11	0.00	0.00	0.00	0.00	20	21	22	19	1	40.0	100.0	1	1	1
14	11	15	20	19	0.00	0.00	0.00	0.00	19	22	23	18	1	40.0	100.0	1	1	1
15	19	20	14	10	0.00	0.00	0.00	0.00	18	23	24	17	1	40.0	100.0	1	1	1
16	10	14	13	9	0.00	0.00	0.00	0.00	17	24	25	16	1	40.0	100.0	1	1	1
17	10	22	22	10	0.00	0.00	2.70	2.70	17	14	27	26	2	25.0	0.0	1	1	3
18	6	18	18	6	0.00	0.00	2.70	2.70	4	5	29	28	2	25.0	0.0	1	1	3
19	7	24	24	7	0.00	0.00	2.70	2.70	7	11	31	30	2	25.0	0.0	1	1	3
20	11	19	19	11	0.00	0.00	2.70	2.70	19	18	33	32	2	25.0	0.0	1	1	3
21	18	7	7	18	0.00	0.00	2.70	2.70	5	7	30	29	2	25.0	0.0	1	1	3
22	19	10	10	19	0.00	0.00	2.70	2.70	18	17	26	33	2	25.0	0.0	1	1	3
23	22	6	6	22	0.00	0.00	2.70	2.70	14	4	28	27	2	25.0	0.0	1	1	3
24	24	11	11	24	0.00	0.00	2.70	2.70	11	19	32	31	2	25.0	0.0	1	1	3

VINCOLI E CEDIMENTI NODALI

IDENTIFIC.		RIGIDEZZE TRASLANTI			RIGIDEZZE ROTAZIONALI			SCOSTAMENTI						VERSO SPOSTAMENTI UNILATERI					
Nodo3d N.ro	Codice	Tx kN/m	Ty kN/m	Tz kN/m	Rx kN*m	Ry kN*m	Rz kN*m	Tr.X cm	Tr.Y cm	Tr.Z cm	Azim Grd	CoZe Grd	Ass. Grd	Tr.X	Tr.Y	Tr.Z	RotX	RotY	RotZ
1	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
2	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
3	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
4	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
5	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
6	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
7	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
8	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
9	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
10	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
11	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
12	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
13	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
14	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
15	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
16	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
17	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
18	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
19	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
20	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
21	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
22	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
23	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
24	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
25	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
34	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						
35	W	-10	-10	0	0	0	-10	0	0	0	0	0	0						

CARICHI TERMICI/DISTRIBUITI/CONCENTRATI

CONDIZIONE DI CARICO N.ro: 2 ALIQUOTA SISMICA:100

IDENTI	FORZE CONCENTRATE			MOMENTI CONCENTRATI		
Nodo3d N.ro	Fx (kN)	Fy (kN)	Fz (kN)	Mx kN*m	My kN*m	Mz kN*m
34	0.000	0.000	-3.500	0.000	0.000	0.000
35	0.000	0.000	-3.500	0.000	0.000	0.000

CARICHI SUGLI SHELL

CONDIZIONE DI CARICO N.ro: 2 ALIQUOTA SISMICA: 100

IDENT.	PRESSIONI					CARICHI PERIMETRALI			
Shell N.ro	Riferimento	P.a kN/mq	P.b kN/mq	P.c kN/mq	P.d kN/mq	Q.ab kN/m	Q.bc kN/m	Q.cd kN/m	Q.da kN/m
17	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0
18	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0
19	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0
20	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0
21	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0
22	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0
23	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0
24	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.0

CARICHI SUGLI SHELL

CONDIZIONE DI CARICO N.ro: 3 — ALIQUOTA SISMICA: 100

IDENT.	PRESSIONI					CARICHI PERIMETRALI			
Shell N.ro	Riferimento	P.a kN/mq	P.b kN/mq	P.c kN/mq	P.d kN/mq	Q.ab kN/m	Q.bc kN/m	Q.cd kN/m	Q.da kN/m
17	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0
18	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0
19	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0
20	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0
21	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0
22	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0
23	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0
24	1	-33.8	-33.8	-10.0	-10.0	0.0	0.0	0.0	0.0

CARICHI SUGLI SHELL

CONDIZIONE DI CARICO N.ro: 4 — ALIQUOTA SISMICA: 100

IDENT.	PRESSIONI					CARICHI PERIMETRALI			
Shell N.ro	Riferimento	P.a kN/mq	P.b kN/mq	P.c kN/mq	P.d kN/mq	Q.ab kN/m	Q.bc kN/m	Q.cd kN/m	Q.da kN/m
17	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0
18	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0
19	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0
20	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0
21	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0
22	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0
23	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0
24	1	-2.5	-2.5	-2.5	-2.5	0.0	0.0	0.0	0.0

CARICHI SUGLI SHELL

CONDIZIONE DI CARICO N.ro: 5 — ALIQUOTA SISMICA: 0

IDENT.	PRESSIONI					CARICHI PERIMETRALI			
Shell N.ro	Riferimento	P.a kN/mq	P.b kN/mq	P.c kN/mq	P.d kN/mq	Q.ab kN/m	Q.bc kN/m	Q.cd kN/m	Q.da kN/m
17	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0
18	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0
19	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0
20	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0
21	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0
22	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0
23	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0
24	1	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	0.0

COMPOSIZIONE SHELL

Macro Nro	Col.1	Col.2	Col.3	Col.4	Col.5	Col.6		Macro Nro	Col.1	Col.2	Col.3	Col.4	Col.5	Col.6
17	17 25 26							18	18 27 28					
19	19 29 30							20	20 31 32					
21	21 33 34							22	22 35 36					
23	23 37 38							24	24 39 40					

COMPOSIZIONE SHELL

Macro Nro	Col.1	Col.2	Col.3	Col.4	Col.5	Col.6		Macro Nro	Col.1	Col.2	Col.3	Col.4	Col.5	Col.6

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

Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)		Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)
14	0.13	1.69	0.00		37	0.13	3.38	1.80
38	0.13	1.69	1.80		39	0.13	0.13	0.90
41	0.13	0.13	1.80					

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

Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)		Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)
5	1.69	0.13	0.00		7	3.38	0.13	0.00
40	1.69	0.13	0.90		42	1.69	0.13	1.80
44	3.38	0.13	1.80					

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

Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)		Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)
11	3.38	1.69	0.00		44	3.38	0.13	1.80
45	3.38	1.69	1.80		46	3.38	3.38	0.90
48	3.38	3.38	1.80					

S.L.U. - AZIONI S.L.V. - NODI SHELL C.A. - QUOTA: 1 ELEMENTO: 10

Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)		Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)
18	1.69	3.38	0.00		19	3.38	3.38	0.00
47	1.69	3.38	0.90		48	3.38	3.38	1.80
49	1.69	3.38	1.80					

S.L.U. - AZIONI S.L.V. -NODI PIASTRA - QUOTA: 0 ELEMENTO: 1

Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)		Nodo 3d N.ro	X3d (m)	Y3d (m)	Z3d (m)
12	3.50	1.69	0.00		13	1.69	1.69	0.00
19	3.38	3.38	0.00		20	3.50	3.38	0.00
21	3.50	3.50	0.00		22	3.38	3.50	0.00
23	1.69	3.50	0.00		24	0.13	3.50	0.00
25	0.00	3.50	0.00					

COMBINAZIONI CARICHI - S.L.V. - A1 / S.L.D.

DESCRIZIONI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Peso Strutturale	1.30	1.30	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	1.50	1.50	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
SPINTA TERR STATICA	1.50	1.50	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
SPINTA TERRENO SISMI	0.00	0.00	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
NEVE	0.00	1.50	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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	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.V. - A1 / S.L.D.

DESCRIZIONI	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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
SPINTA TERR STATICA	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
SPINTA TERRENO SISMI	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
NEVE	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	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	-0.30	0.30	0.30	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	-1.00	-1.00	-1.00	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	-0.30	-0.30	-0.30	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.V. - A1 / S.L.D.

DESCRIZIONI	31	32	33	34
Peso Strutturale	1.00	1.00	1.00	1.00
Perm.Non Strutturale	1.00	1.00	1.00	1.00
SPINTA TERR STATICA	1.00	1.00	1.00	1.00
SPINTA TERRENO SISMI	1.00	1.00	1.00	1.00
NEVE	0.00	0.00	0.00	0.00
Corr. Tors. dir. 0	-0.30	0.30	-0.30	0.30
Corr. Tors. dir. 90	-1.00	-1.00	1.00	1.00
Sisma direz. grd 0	-0.30	-0.30	-0.30	-0.30
Sisma direz. grd 90	-1.00	-1.00	-1.00	-1.00

COMBINAZIONI RARE - S.L.E.

DESCRIZIONI	1	2
Peso Strutturale	1.00	1.00
Perm.Non Strutturale	1.00	1.00
SPINTA TERR STATICA	1.00	1.00
SPINTA TERRENO SISMI	0.00	0.00
NEVE	0.50	1.00
Corr. Tors. dir. 0	0.00	0.00
Corr. Tors. dir. 90	0.00	0.00
Sisma direz. grd 0	0.00	0.00
Sisma direz. grd 90	0.00	0.00

COMBINAZIONI FREQUENTI - S.L.E.

DESCRIZIONI	1	2
Peso Strutturale	1.00	1.00
Perm.Non Strutturale	1.00	1.00
SPINTA TERR STATICA	1.00	1.00
SPINTA TERRENO SISMI	0.00	0.00
NEVE	0.00	0.20
Corr. Tors. dir. 0	0.00	0.00
Corr. Tors. dir. 90	0.00	0.00
Sisma direz. grd 0	0.00	0.00
Sisma direz. grd 90	0.00	0.00

COMBINAZIONI PERMANENTI - S.L.E.

DESCRIZIONI	1
Peso Strutturale	1.00
Perm.Non Strutturale	1.00
SPINTA TERR STATICA	1.00
SPINTA TERRENO SISMI	0.00
NEVE	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

- **SPECIFICHE CAMPI TABELLE DI STAMPA TRAVI**

Tratto : *Le aste adiacenti a setti e piastre vengono suddivise in sottoelementi per garantire la congruenza. Il numero di "TRATTO" identifica la posizione sequenziale del sottoelemento attuale a partire dall'estremo iniziale*
Filo in. : *Filo iniziale*
Filo fin. : *Filo finale*

Le altre grandezze descritte di seguito si riferiscono a ciascun estremo dell'asta:

Alt. : *Altezza dell'estremità dell'asta dallo spiccato di fondazione*
Tx : *Taglio lungo la direzione dell'asse 'X' del sistema di riferimento locale di asta (principale d'inerzia)*
Ty : *Taglio lungo la direzione dell'asse 'Y' del sistema di riferimento locale di asta*
N : *Sforzo assiale*
Mx : *Momento agente con asse vettore parallelo all'asse 'X' del sistema di riferimento locale di asta*
My : *Momento agente con asse vettore parallelo all'asse 'Y' del sistema di riferimento locale di asta*
Mt : *Momento torcente dell'asta (agente con asse vettore parallelo all'asse 'Z' locale)*

- **SPECIFICHE CAMPI TABELLE DI STAMPA SHELL**

SISTEMA DI RIFERIMENTO LOCALE (s.r.l.): Il sistema di riferimento locale dell'elemento shell è così definito:
Origine : *I° punto di inserimento dello shell*
Asse 1 : *Asse X nel s.r.l., definito dal punto origine e dal II° punto di inserimento, nel verso di quest'ultimo*
Piano12 : *Piano XY nel s.r.l., definito dai punti origine, II° e III° di inserimento*
Asse 2 : *Asse Y nel s.r.l., ottenuto nel piano 12 con una rotazione antioraria di 90° dell'asse X intorno al punto origine, in modo che l'asse I-II si sovrapponga all'asse I-III con un angolo<180°*
Asse 3 *Asse Z nel s.r.l., ortogonale al piano 12, in modo da formare una terna destra con gli assi 1 e 2*

Le tensioni di lastra (S) sono costanti lungo lo spessore. Le tensioni di piastra (M) variano linearmente lungo lo spessore, annullandosi in corrispondenza del piano medio (diagramma emisimmetrico o "a farfalla"). I valori del tensore degli sforzi sono riferiti alla faccia positiva (superiore nel s.r.l.) di normale 3 (esempio: Xij tensione X agente sulla faccia di normale i e diretta lungo j).
Le altre grandezze descritte di seguito si riferiscono a ciascun nodo dell'elemento bidimensionale:

Shell Nro : *numero dell'elemento bidimensionale*
nodo N.ro : *numero del nodo dell'elemento bidimensionale a cui sono riferite le tensioni S di lastra e M piastra*
S11 : *tensione normale di lastra*
S22 : *tensione normale di lastra*
S12 *tensione tangenziale di lastra (S12 = S21)*
M11 *tensione normale di piastra sulla faccia positiva*
M22 *tensione normale di piastra sulla faccia positiva*
M12 *tensione tangenziale di piastra sulla faccia positiva*

Tabulato di stampa dei carichi nodali equivalenti applicati nei nodi degli shell.

Shell Nro : *numero dell'elemento bidimensionale*
nodo N.ro : *numero del nodo dell'elemento bidimensionale a cui sono i carichi nodali degli shell*
Tx : *Forza nodale in direzione X del sistema di riferimento locale*
Ty : *Forza nodale in direzione Y del sistema di riferimento locale*
Tz : *Forza nodale in direzione X del sistema di riferimento locale*
Mx : *Momento nodale con asse vettore parallelo all'asse X del sistema di riferimento locale*
My : *Momento nodale con asse vettore parallelo all'asse Y del sistema di riferimento locale*
Mz : *Momento nodale con asse vettore parallelo all'asse Z del sistema di riferimento locale*

- **SPECIFICHE CAMPI TABELLE DI STAMPA TRAVI**

Tratto : *Le aste adiacenti a setti e piastre vengono suddivise in sottoelementi per garantire la congruenza. Il numero di "TRATTO" identifica la posizione sequenziale del sottoelemento attuale a partire dall'estremo iniziale*
Filo in. : *Filo iniziale*
Filo fin. : *Filo finale*

Le altre grandezze descritte di seguito si riferiscono a ciascun estremo dell'asta:

Alt. : *Altezza dell'estremità dell'asta dallo spiccato di fondazione*
Tx : *Taglio lungo la direzione dell'asse 'X' del sistema di riferimento locale di asta (principale d'inerzia)*
Ty : *Taglio lungo la direzione dell'asse 'Y' del sistema di riferimento locale di asta*
N : *Sforzo assiale*
Mx : *Momento agente con asse vettore parallelo all'asse 'X' del sistema di riferimento locale di asta*
My : *Momento agente con asse vettore parallelo all'asse 'Y' del sistema di riferimento locale di asta*
Mt : *Momento torcente dell'asta (agente con asse vettore parallelo all'asse 'Z' locale)*

- **SPECIFICHE CAMPI TABELLE DI STAMPA SHELL**

SISTEMA DI RIFERIMENTO LOCALE (s.r.l.): Il sistema di riferimento locale dell'elemento shell è così definito:
Origine : *I° punto di inserimento dello shell*
Asse 1 : *Asse X nel s.r.l., definito dal punto origine e dal II° punto di inserimento, nel verso di quest'ultimo*
Piano12 : *Piano XY nel s.r.l., definito dai punti origine, II° e III° di inserimento*
Asse 2 : *Asse Y nel s.r.l., ottenuto nel piano 12 con una rotazione antioraria di 90° dell'asse X intorno al punto origine, in modo che l'asse I-II si sovrapponga all'asse I-III con un angolo<180°*
Asse 3 *Asse Z nel s.r.l., ortogonale al piano 12, in modo da formare una terna destra con gli assi 1 e 2*

Le tensioni di lastra (S) sono costanti lungo lo spessore. Le tensioni di piastra (M) variano linearmente lungo lo spessore, annullandosi in corrispondenza del piano medio (diagramma emisimmetrico o "a farfalla"). I valori del tensore degli sforzi

sono riferiti alla faccia positiva (superiore nel s.r.l.) di normale 3 (esempio: Xij tensione X agente sulla faccia di normale i e diretta lungo j).
Le altre grandezze descritte di seguito si riferiscono a ciascun nodo dell'elemento bidimensionale:

Shell Nro : *numero dell'elemento bidimensionale*
nodo N.ro : *numero del nodo dell'elemento bidimensionale a cui sono riferite le tensioni S di lastra e M piastra*
S11 : *tensione normale di lastra*
S22 : *tensione normale di lastra*
S12 *tensione tangenziale di lastra (S12 = S21)*
M11 *tensione normale di piastra sulla faccia positiva*
M22 *tensione normale di piastra sulla faccia positiva*
M12 *tensione tangenziale di piastra sulla faccia positiva*

Tabulato di stampa dei carichi nodali equivalenti applicati nei nodi degli shell.

Shell Nro : *numero dell'elemento bidimensionale*
nodo N.ro : *numero del nodo dell'elemento bidimensionale a cui sono i carichi nodali degli shell*
Tx : *Forza nodale in direzione X del sistema di riferimento locale*
Ty : *Forza nodale in direzione Y del sistema di riferimento locale*
Tz : *Forza nodale in direzione X del sistema di riferimento locale*
Mx : *Momento nodale con asse vettore parallelo all'asse X del sistema di riferimento locale*
My : *Momento nodale con asse vettore parallelo all'asse Y del sistema di riferimento locale*
Mz : *Momento nodale con asse vettore parallelo all'asse Z del sistema di riferimento locale*

- **SPECIFICHE CAMPI TABELLE DI STAMPA TRAVI**

Tratto : *Le aste adiacenti a setti e piastre vengono suddivise in sottoelementi per garantire la congruenza. Il numero di "TRATTO" identifica la posizione sequenziale del sottoelemento attuale a partire dall'estremo iniziale*
Filo in. : *Filo iniziale*
Filo fin. : *Filo finale*

Le altre grandezze descritte di seguito si riferiscono a ciascun estremo dell'asta:

Alt. : *Altezza dell'estremità dell'asta dallo spiccato di fondazione*
Sx : *Spostamento lungo la direzione dell'asse 'X' del sistema di riferimento locale di asta*
Sy : *Spostamento lungo la direzione dell'asse 'Y' del sistema di riferimento locale di asta*
Sz : *Spostamento assiale*
Rx : *Rotazione agente con asse vettore parallelo all'asse 'X' del sistema di riferimento locale di asta*
Ry : *Rotazione agente con asse vettore parallelo all'asse 'Y' del sistema di riferimento locale di asta*
Rz : *Rotazione torcente dell'asta (agente con asse vettore parallelo all'asse 'Z' locale)*

- **SPECIFICHE CAMPI TABELLE DI STAMPA SHELL**

SISTEMA DI RIFERIMENTO LOCALE (s.r.l.): Il sistema di riferimento locale dell'elemento shell è così definito:
Origine : *I° punto di inserimento dello shell*
Asse 1 : *Asse X nel s.r.l., definito dal punto origine e dal II° punto di inserimento, nel verso di quest'ultimo*
Piano12 : *Piano XY nel s.r.l., definito dai punti origine, II° e III° di inserimento*
Asse 2 : *Asse Y nel s.r.l., ottenuto nel piano 12 con una rotazione antioraria di 90° dell'asse X intorno al punto origine, in modo che l'asse I-II si sovrapponga all'asse I-III con un angolo<180°*
Asse 3 : *Asse Z nel s.r.l., ortogonale al piano 12, in modo da formare una terna destra con gli assi 1 e 2*
Shell Nro : *numero dell'elemento bidimensionale*
nodo N.ro : *numero del nodo dell'elemento bidimensionale a cui sono riferite le tensioni S di lastra e M piastra*

Per ogni nodo dell'elemento bidimensionale:

Si : *spostamento in direzione i, s.r.l*
Ri : *rotazione con asse vettore i, s.r.l*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Filo N.ro : *Numero del filo del nodo inferiore o superiore*

Quota inf/sup : *Quota del nodo inferiore e del nodo superiore*

Nodo inf/sup : *Numero dei nodi inferiore e superiore per la determinazione degli spostamenti sismici relativi*

Sisma N.ro : *Numero del sisma per cui è massimo il valore dello spostamento totale calcolato per lo S.L.D.*

Spostam. Calcolo : *valore dello spostamento totale calcolato per lo S.L.D.*

Spostam. Limite : *valore dello spostamento limite per lo S.L.D.*

Sisma N.ro : *Numero del sisma per cui è massimo il valore dello spostamento totale calcolato per lo S.L.O.*

Spostam. Calcolo : *valore dello spostamento totale calcolato per lo S.L.O.*

Spostam. Limite : *valore dello spostamento limite per lo S.L.O.*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa della verifica degli elementi bidimensionali allo stato limite ultimo.

Quota N.ro:	:	*Quota a cui si trova l'elemento*
Perim. N.ro	:	*Numero identificativo del macroelemento il cui perimetro è stato definito prima di eseguire la verifica*
Nodo 3d N.ro	:	*Numero del nodo relativo alla suddivisione del macroelemento in microelementi*
Nx	:	*Sforzo sul piano dell'elemento bidimensionale diretto come l'asse x del sistema locale (il sistema di riferimento locale è quello delle armature)*
Ny	:	*Sforzo sul piano dell'elemento bidimensionale diretto come l'asse y del sistema locale*
Txy	:	*Sforzo tagliante sul piano dell'elemento con direzione y e agente sulla faccia di normale x del sistema locale (ovvero anche, per la simmetria delle tensioni tangenziali, sforzo tagliante sul piano dell'elemento con direzione x e agente sulla faccia di normale y del sistema locale)*
Mx	:	*Momento flettente agente sulla sezione di normale x del sistema locale. Per le verifiche è accoppiato allo sforzo normale Nx. Questo momento è incrementato per tenere in conto il valore del momento torcente Mxy*
My	:	*Momento flettente agente sulla sezione di normale y del sistema locale. Per le verifiche è accoppiato allo sforzo normale Ny. Questo momento è incrementato per tenere in conto il valore del momento torcente Mxy*
Mxy	:	*Momento torcente con asse vettore x e agente sulla sezione di normale x (ovvero anche, per la simmetria delle tensioni tangenziali momento torcente con asse vettore y e agente sulla sezione di normale y)*
εcx *10000	:	*Deformazione del calcestruzzo nella faccia di normale x *10000 (Es. 0.35% = 35)*
εcy *10000	:	*Deformazione del calcestruzzo nella faccia di normale y *10000 (Es. 0.35% = 35)*
εfx *10000	:	*Deformazione dell'acciaio nella faccia di normale x *10000 (Es. 1% = 100)*
εfy *10000	:	*Deformazione dell'acciaio nella faccia di normale y *10000 (Es. 1% = 100)*
Ax superiore	:	*Area totale armatura superiore diretta lungo x. Area totale è l'area della presso-flessione più l'area per il taglio riportata dopo)*
Ay superiore	:	*Area totale armatura superiore diretta lungo y*
Ax inferiore	:	*Area totale armatura inferiore diretta lungo x*
Ay inferiore	:	*Area totale armatura inferiore diretta lungo y*
Atag	:	*Area per il taglio su ciascuna faccia per le due direzioni*
σt	:	*Tensione massima di contatto con il terreno*
Eta	:	*Abbassamento verticale del nodo in esame*
Fpunz	:	*Forza di punzonamento determinata amplificando il massimo valore della forza punzonante (ottenuta dall'inviluppo fra le varie combinazioni di carico agenti) per un coefficiente beta raccomandato nell'eurocodice 2 (figura 6.21). Per le piastre di fondazione la forza di punzonamento è stata ridotta dell'effetto favorevole della pressione del suolo*
FpunzLi	:	*Resistenza al punzonamento ottenuta dall'applicazione dalla formula (6.47) dell'erurocodice 2, utilizzando il perimetro di base definito nelle figure 6.13 e 6.15*
Apunz	:	*Armatura di punzonamento calcolata dalla formula (6.51) dell' eurocodice 2*

Nel caso di stampa di riverifiche degli elementi con le armature effettivamente disposte sul disegno ferri le colonne delle ε vengono sostituite con:

Molt.	:	*Moltiplicatore delle sollecitazioni che porta a rottura la sezione, rispettivamente nelle direzioni X e Y*
x/d	:	*Posizione adimensionalizzata dell'asse neutro rispettivamente nelle direzioni X e Y*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa delle verifiche agli stati limite di esercizio degli elementi bidimensionali.

Quota : *Quota a cui si trova l'elemento*
Perim. : *Numero identificativo del macro-elemento il cui perimetro è stato definito prima di eseguire la verifica*
Nodo : *Numero del nodo relativo alla suddivisione del macro-elemento in microelementi*
Comb Cari : *Indicatore della matrice di combinazione; la prima riga individua la matrice delle combinazioni rare, la seconda la matrice delle combinazioni frequenti, la terza quella permanenti*
Fes lim : *Fessura limite espressa in mm*
Fess. : *Fessura di calcolo espressa in mm; se sull'elemento non si aprono fessure tutta la riga sarà nulla*
Dist mm : *Distanza fra le fessure*
Combin : *Numero della combinazione ed in sequenza sollecitazioni per cui si è avuta la massima fessura*
Mf X : *Momento flettente agente sulla sezione di normale x del sistema locale. (Il sistema di riferimento locale è quello delle armature)*
N X : *Sforzo sul piano dell'elemento bidimensionale diretto come l'asse x del sistema locale*
Mf Y : *Momento flettente agente sulla sezione di normale y del sistema locale. (Il sistema di riferimento locale è quello delle armature)*
N Y : *Sforzo sul piano dell'elemento bidimensionale diretto come l'asse y del sistema locale*
Cos teta : *Coseno dell'angolo teta tra l'armatura in direzione X e la direzione della tensione principale di trazione*
Sin teta : *Seno dell'angolo teta*
Combina Carico : *Indicatore della matrice di combinazione; la prima riga individua la matrice delle combinazioni rare per la verifica della tensione sul cls, la seconda la matrice delle combinazioni rare per la verifica della tensione sull'acciaio, la terza la matrice delle combinazioni permanenti per la verifica della tensione sul cls*
s lim : *Valore della tensione limite in Kg/cmq*
s cal : *Valore della tensione di calcolo in Kg/cmq sulla faccia di normale x*
Conbin : *Numero della combinazione ed in sequenza sollecitazioni per cui si è avuta la massima tensione*
Mf X : *Momento flettente agente sulla sezione di normale x del sistema locale. (Il sistema di riferimento locale è quello delle armature)*
N X : *Sforzo sul piano dell'elemento bidimensionale diretto come l'asse x del sistema locale*
s cal : *Valore della tensione di calcolo in Kg/cmq sulla faccia di normale y*
Combin : *Numero della combinazione ed in sequenza sollecitazioni per cui si è avuta la massima tensione*
Mf Y : *Momento flettente agente sulla sezione di normale y del sistema locale*
N Y : *Sforzo sul piano dell'elemento bidimensionale diretto come l'asse y del sistema locale*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa della verifica degli elementi bidimensionali allo stato limite ultimo.

Gruppo Quote : *Numero identificativo del gruppo di quote definito prima di eseguire la verifica*
Generatrice : *Numero identificativo della generatrice definita prima di eseguire la verifica*
Nodo 3d N.ro : *Numero del nodo relativo alla suddivisione del macroelemento in microelementi*
Nx : *Sforzo sul piano dell'elemento bidimensionale diretto come l'asse x del sistema locale. (Il sistema di riferimento locale ha l'asse x nella direzione del setto e l'asse y verticale)*
Ny : *Sforzo sul piano dell'elemento bidimensionale diretto come l'asse y del sistema locale*
Txy : *Sforzo tagliante sul piano dell'elemento con direzione y e agente sulla faccia di normale x del sistema locale.(Ovvero anche, per la simmetria delle tensioni tangenziali, sforzo tagliante sul piano dell'elemento con direzione x e agente sulla faccia di normale y del sistema locale)*
Mx : *Momento flettente agente sulla sezione di normale x del sistema locale. Per le verifiche è accoppiato allo sforzo normale Nx. Questo momento è incrementato per tenere in conto il valore del momento torcente Mxy*
My : *Momento flettente agente sulla sezione di normale y del sistema locale. Per le verifiche è accoppiato allo sforzo normale Ny. Questo momento è incrementato per tenere in conto il valore del momento torcente Mxy*
Mxy : *Momento torcente con asse vettore x e agente sulla sezione di normale x (ovvero anche, per la simmetria delle tensioni tangenziali, momento torcente con asse vettore y e agente sulla sezione di normale y)*
εcx* 10000 : *Deformazione del calcestruzzo nella faccia di normale x ×10000 (Es. 0.35% = 35)*
εcy* 10000 : *Deformazione del calcestruzzo nella faccia di normale y ×10000 (Es. 0.35% = 35)*
εfx* 10000 : *Deformazione dell'acciaio nella faccia di normale x ×10000 (Es. 1% = 100)*
εfy *10000 : *Deformazione dell'acciaio nella faccia di normale x ×10000 (Es. 1% = 100)*
Ax superiore : *Area totale armatura superiore diretta lungo x. (Area totale è l'area della presso-flessione più l'area per il taglio riportata dopo)*
Ay superiore : *Area totale armatura superiore diretta lungo y*
Ax inferiore : *Area totale armatura inferiore diretta lungo x*
Ay inferiore : *Area totale armatura inferiore diretta lungo y*
Atag : *Area per il taglio su ciascuna faccia per le due direzioni*
σt : *Tensione massima di contatto con il terreno*
Eta : *Abbassamento verticale del nodo in esame*

Nel caso di stampa di riverifiche degli elementi con le armature effettivamente disposte sul disegno ferri le colonne delle ε vengono sostituite con:

Molt. : *Moltiplicatore delle sollecitazioni che porta a rottura la sezione, rispettivamente nelle direzioni X e Y*

- **SPECIFICHE CAMPI TABELLA DI STAMPA**

Si riporta di seguito la spiegazione delle sigle usate nella tabella di stampa delle verifiche agli stati limite di esercizio degli elementi bidimensionali.

Gr.Q	:	*Numero identificativo del gruppo di quote definito prima di eseguire la verifica*
Gen	:	*Numero identificativo della generatrice definita prima di eseguire la verifica*
Nodo	:	*Numero del nodo relativo alla suddivisione del macro-elemento in microelementi*
Comb. Cari	:	*Indicatore della matrice di combinazione; la prima riga individua la matrice delle combinazioni rare, la seconda la matrice delle combinazioni frequenti, la terza quella permanenti*
Fes lim	:	*Fessura limite espressa in mm*
Fess.	:	*Fessura di calcolo espressa in mm; se sull'elemento non si aprono fessure tutta la riga sarà nulla*
Dist mm	:	*Distanza fra le fessure*
Combin	:	*Numero della combinazione ed in sequenza sollecitazioni per cui si è avuta la massima fessura*
Mf X	:	*Momento flettente agente sulla sezione di normale x del sistema locale. (Il sistema di riferimento locale è quello delle armature)*
N X	:	*Sforzo sul piano dell'elemento bidimensionale diretto come l'asse x del sistema locale*
Mf Y	:	*Momento flettente agente sulla sezione di normale y del sistema locale. (Il sistema di riferimento locale è quello delle armature)*
N Y	:	*Sforzo sul piano dell'elemento bidimensionale diretto come l'asse y del sistema locale*
Cos teta	:	*Coseno dell'angolo teta tra l'armatura in direzione X e la direzione della tensione principale di trazione*
Sin teta	:	*Seno dell'angolo teta*
Combina Carico	:	*Indicatore della matrice di combinazione; la prima riga individua la matrice delle combinazioni rare per la verifica della tensione sul cls, la seconda la matrice delle combinazioni rare per la verifica della tensione sull'acciaio, la terza la matrice delle combinazioni permanenti per la verifica della tensione sul cls*
s lim	:	*Valore della tensione limite in Kg/cmq*
s cal	:	*Valore della tensione di calcolo in Kg/cmq sulla faccia di normale x*
Conbin	:	*Numero della combinazione ed in sequenza sollecitazioni per cui si è avuta la massima tensione*
Mf X	:	*Momento flettente agente sulla sezione di normale x del sistema locale. (Il sistema di riferimento locale è quello delle armature)*
N X	:	*Sforzo sul piano dell'elemento bidimensionale diretto come l'asse x del sistema locale*
s cal	:	*Valore della tensione di calcolo in Kg/cmq sulla faccia di normale y*
Combin	:	*Numero della combinazione ed in sequenza sollecitazioni per cui si è avuta la massima tensione*
Mf Y	:	*Momento flettente agente sulla sezione di normale y del sistema locale*
N Y	:	*Sforzo sul piano dell'elemento bidimensionale diretto come l'asse y del sistema locale*

FREQUENZE E MASSE ECCITATE

									Eccitat Totale	SISMA N.ro 1 Massa 15.61 17.1	Perc. .91	SISMA N.ro 2 Massa 14.87 17.1	Perc. .86	SISMA N.ro 3 Massa	Perc.
Modo N.ro	Pulsazione (rad/sec)	Periodo (sec)	Smorz Mod(%)	Sd/g SLO	Sd/g SLD	Sd/g SLV X	Sd/g SLV Y	Sd/g SLV Z	Sd/g SLC	Massa Mod Ecc.(kN)	Perc.	Massa Mod Ecc.(kN)	Perc.	Massa Mod Ecc.(kN)	Perc.
1	229.647	0.02736	5.0		0.096	0.198	0.198		0.215	145.6	0.85	0.0	0.00		
2	547.676	0.01147	5.0		0.083	0.173	0.173		0.188	0.0	0.00	135.4	0.79		
3	677.707	0.00927	5.0		0.081	0.169	0.169		0.184	0.0	0.00	0.0	0.00		
4	797.689	0.00788	5.0		0.080	0.167	0.167		0.182	0.0	0.00	9.5	0.06		
5	1070.418	0.00587	5.0		0.078	0.164	0.164		0.178	0.0	0.00	0.0	0.00		
6	1090.580	0.00576	5.0		0.078	0.164	0.164		0.178	3.0	0.02	0.0	0.00		
7	1178.900	0.00533	5.0		0.078	0.163	0.163		0.177	0.0	0.00	0.0	0.00		
8	1494.225	0.00420	5.0		0.077	0.161	0.161		0.175	0.0	0.00	0.0	0.00		
9	1504.808	0.00418	5.0		0.077	0.161	0.161		0.175	0.0	0.00	3.1	0.02		
10	2048.021	0.00307	5.0		0.076	0.159	0.159		0.173	0.0	0.00	0.0	0.00		
11	2355.248	0.00267	5.0		0.076	0.159	0.159		0.173	6.4	0.04	0.0	0.00		
12	2386.997	0.00263	5.0		0.076	0.159	0.159		0.173	1.0	0.01	0.7	0.00		

FORZE: SISMA 0°°: MODO1: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.4	-0.1	0.0	0.0	4	0.0	0.0	1.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	-1.4	0.0	0.0	0.0
2	5	0.0	0.0	-0.5	0.0	0.0	0.0	6	0.0	0.0	0.5	0.0	0.0	0.0
	4	0.0	0.0	-1.3	0.1	0.2	0.0	2	0.0	0.0	1.3	0.0	0.0	0.0
3	7	0.0	0.0	0.2	0.0	0.0	0.0	8	0.0	0.0	-0.2	0.0	0.0	0.0
	5	0.0	0.0	0.5	0.0	0.0	0.0	6	0.0	0.0	-0.5	0.0	0.0	0.0
4	9	0.0	0.0	0.2	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	-0.6	0.0	0.0	0.0	8	0.0	0.0	0.3	0.0	0.0	0.0
5	11	0.0	0.0	-0.2	0.1	-0.3	0.0	12	0.0	0.0	0.2	-0.2	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.3	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.4	-0.2	0.1	0.0	13	0.0	0.0	0.8	0.0	0.0	0.0
	7	0.0	0.0	-0.6	-0.5	0.3	0.0	11	0.0	0.0	-0.5	-1.3	0.0	0.0
7	4	0.0	0.0	0.6	-0.5	-0.3	0.0	14	0.0	0.0	0.6	-1.4	0.0	0.0
	5	0.0	0.0	-0.4	-0.1	-0.1	0.0	13	0.0	0.0	-0.9	0.0	0.0	0.0
8	3	0.0	0.0	-0.5	0.0	-0.1	0.0	15	0.0	0.0	-0.3	0.1	-0.2	0.0
	4	0.0	0.0	0.6	0.2	0.1	0.0	14	0.0	0.0	0.2	-0.2	0.1	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.1	0.0	0.4	0.0
	15	0.0	0.0	0.0	-0.2	-0.1	0.0	14	0.0	0.0	-0.1	0.1	-0.3	0.0
10	17	0.0	0.0	0.7	-0.3	-0.6	0.0	18	0.0	0.0	-0.5	-0.1	-0.2	0.0
	14	0.0	0.0	0.8	0.1	-1.5	0.0	13	0.0	0.0	-1.0	0.0	0.0	0.0
11	19	0.0	0.0	-0.6	0.6	0.3	0.0	11	0.0	0.0	-0.6	1.4	0.0	0.0
	18	0.0	0.0	0.4	0.1	0.1	0.0	13	0.0	0.0	0.8	0.0	0.0	0.0
12	19	0.0	0.0	-0.1	0.0	0.3	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	-0.1	-0.3	0.0	12	0.0	0.0	0.1	0.2	0.0	0.0
13	19	0.0	0.0	-0.5	0.0	0.0	0.0	22	0.0	0.0	0.3	0.0	0.0	0.0
	20	0.0	0.0	0.2	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.3	0.0	0.0	0.0	23	0.0	0.0	-0.2	0.0	0.0	0.0
	19	0.0	0.0	0.1	0.0	-0.1	0.0	22	0.0	0.0	-0.1	0.0	0.0	0.0
15	17	0.0	0.0	-0.1	0.0	0.1	0.0	24	0.0	0.0	0.2	0.0	0.0	0.0
	18	0.0	0.0	-0.2	0.0	0.0	0.0	23	0.0	0.0	0.2	0.0	0.0	0.0
16	16	0.0	0.0	-0.2	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.5	0.0	0.0	0.0	24	0.0	0.0	-0.3	0.0	0.0	0.0
17	36	-1.4	2.7	0.0	-0.6	0.3	0.5	35	-0.5	1.7	4.9	-1.6	0.6	-0.6
	17	0.5	-1.6	-0.5	-0.6	0.0	-0.4	14	1.4	-2.7	-4.5	-1.7	-0.1	0.6
18	39	2.1	-0.7	-0.3	0.1	0.3	0.0	40	2.0	0.8	0.2	0.0	0.0	-0.1
	4	-2.6	-1.6	0.0	0.0	0.0	0.2	5	-1.5	1.6	0.1	0.0	0.1	-0.1
19	43	1.4	-2.8	0.2	0.5	-0.3	-0.4	34	0.4	-1.7	-4.9	1.5	-0.6	0.6
	7	-0.5	1.7	0.4	0.5	-0.1	0.4	11	-1.3	2.8	4.3	1.6	0.1	-0.6
20	46	-2.6	0.9	0.3	0.0	-0.3	0.0	47	-2.3	-0.7	-0.2	0.0	0.0	0.2
	19	3.1	1.7	-0.1	0.0	0.0	-0.3	18	1.8	-1.9	-0.1	0.0	-0.1	0.2
21	40	2.2	-0.6	-0.2	0.0	0.0	-0.2	43	2.3	0.8	0.3	0.0	0.3	0.0
	5	-1.6	-1.8	0.0	0.0	0.1	-0.2	7	-3.0	1.6	-0.1	0.0	0.0	0.3
22	47	-2.2	0.8	0.1	0.0	0.0	0.2	36	-2.4	-0.9	-0.3	0.0	-0.3	0.0
	18	1.6	1.8	0.1	0.0	-0.1	0.1	17	2.9	-1.7	0.1	0.0	0.0	-0.3
23	35	0.5	1.7	4.9	-1.5	-0.6	0.6	39	1.4	2.5	-0.2	-0.6	-0.3	-0.4
	14	-1.4	-2.8	-4.3	-1.6	0.1	-0.6	4	-0.5	-1.5	-0.4	-0.6	-0.1	0.4
24	34	-0.4	-1.7	-5.0	1.6	0.6	-0.6	46	-1.4	-2.7	0.0	0.6	0.3	0.5
	11	1.4	2.7	4.5	1.7	-0.1	0.6	19	0.5	1.7	0.5	0.6	0.0	-0.4
25	37	-1.1	1.4	-1.0	0.1	0.2	0.2	38	-0.5	0.8	-1.6	0.0	0.5	-0.2
	36	0.8	-0.6	0.0	0.6	0.3	-0.4	35	0.8	-1.7	2.6	1.6	0.7	0.4
26	26	-0.9	0.7	0.5	0.0	0.0	0.0	27	-0.6	0.0	-0.5	0.0	0.0	0.0
	37	0.8	0.1	-0.9	0.0	0.2	-0.1	38	0.7	-0.8	0.9	0.0	0.4	0.1
27	41	1.2	-0.6	0.0	0.0	0.2	-0.1	42	2.0	1.2	0.2	0.0	0.0	0.0
	39	-1.6	-1.3	-0.4	-0.1	0.3	-0.1	40	-1.6	0.7	0.2	-0.1	0.0	0.2
28	28	1.3	-0.6	0.1	0.0	0.0	0.0	29	1.5	1.0	0.1	0.0	0.0	0.0
	41	-1.6	-1.0	-0.3	-0.1	0.2	0.0	42	-1.2	0.7	0.1	0.0	0.0	0.0
29	44	1.1	-1.5	1.0	-0.1	-0.3	-0.2	45	0.5	-0.8	1.4	0.0	-0.5	0.2
	43	-0.7	0.6	0.2	-0.6	-0.3	0.3	34	-0.8	1.7	-2.6	-1.5	-0.7	-0.3
30	30	0.8	-0.7	-0.5	0.0	0.0	0.0	31	0.6	0.0	0.6	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO1: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	44	-0.8	-0.1	0.9	0.0	-0.2	0.1	45	-0.6	0.8	-1.0	0.0	-0.4	-0.1
31	48	-1.5	0.7	0.0	0.0	-0.2	0.1	49	-2.2	-1.2	-0.2	0.0	0.0	0.0
	46	1.7	1.3	0.3	0.1	-0.3	0.1	47	1.9	-0.8	-0.1	0.0	0.0	-0.2
32	32	-1.4	0.7	-0.1	0.0	0.0	0.0	33	-1.6	-0.9	-0.1	0.0	0.0	0.0
	48	1.6	0.9	0.3	0.1	-0.2	0.0	49	1.3	-0.7	-0.1	0.0	0.0	0.0
33	42	2.3	-1.2	-0.2	0.0	0.0	0.0	44	1.4	0.7	0.0	0.0	0.2	-0.1
	40	-1.8	-0.8	-0.2	0.1	0.0	0.2	43	-1.9	1.3	0.4	0.1	0.3	0.0
34	29	1.7	-1.0	-0.1	0.0	0.0	0.0	30	1.4	0.7	-0.1	0.0	0.0	0.0
	42	-1.4	-0.7	-0.1	0.0	0.0	0.0	44	-1.7	1.0	0.3	0.1	0.2	0.0
35	49	-2.0	1.2	0.2	0.0	0.0	0.0	37	-1.3	-0.7	0.0	0.0	-0.2	0.1
	47	1.8	0.7	0.2	-0.1	0.0	-0.2	36	1.5	-1.2	-0.4	-0.1	-0.3	0.1
36	33	-1.5	0.9	0.1	0.0	0.0	0.0	26	-1.2	-0.7	0.1	0.0	0.0	0.0
	49	1.2	0.7	0.0	0.0	0.0	0.0	37	1.5	-0.9	-0.3	-0.1	-0.2	0.0
37	38	0.5	0.7	-1.4	0.0	-0.5	0.2	41	1.0	1.4	-1.0	0.1	-0.3	-0.2
	35	-0.8	-1.6	2.6	1.5	-0.7	-0.3	39	-0.7	-0.5	-0.2	0.6	-0.4	0.3
38	27	0.6	0.0	-0.6	0.0	0.0	0.0	28	0.8	0.6	0.5	0.0	0.0	0.0
	38	-0.6	-0.8	1.0	0.0	-0.4	-0.1	41	-0.7	0.1	-0.9	0.0	-0.2	0.1
39	45	-0.5	-0.8	1.5	0.0	0.5	-0.2	48	-1.1	-1.5	1.0	-0.1	0.2	0.2
	34	0.9	1.7	-2.5	-1.6	0.7	0.4	46	0.8	0.6	0.0	-0.6	0.3	-0.4
40	31	-0.6	0.0	0.5	0.0	0.0	0.0	32	-0.9	-0.7	-0.5	0.0	0.0	0.0
	45	0.7	0.8	-0.9	0.0	0.4	0.1	48	0.9	-0.1	0.9	0.0	0.2	-0.1

FORZE: SISMA 0°°: MODO3: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO3: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO5: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO5: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO6: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.1	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	-0.1	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	-0.1	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.1	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.1	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	-0.1	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	-0.1	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO6: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	11	0.0	0.0	0.1	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	-0.2	0.1	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.2	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.1	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	-0.1	-0.1	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.2	-0.1	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	-0.1	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	-0.1	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.1	0.1	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	-0.2	0.1	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.1	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.1	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	-0.1	-0.1	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.2	-0.1	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	-0.2	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	-0.1	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.1	0.1	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO7: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO7: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO10: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO10: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO11: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.1	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.1	-0.1	0.0	0.0	0.0	0.0	40	0.1	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO11: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	4	-0.1	0.0	0.0	0.0	0.0	0.0	5	-0.1	0.1	0.0	0.0	0.0	0.0
19	43	-0.2	0.1	0.0	0.0	0.0	0.0	34	0.1	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.1	0.0	0.0	0.0	0.0	0.0
20	46	-0.2	0.1	0.0	0.0	0.0	0.0	47	-0.1	-0.1	0.0	0.0	0.0	0.0
	19	0.1	0.0	0.0	0.0	0.0	0.0	18	0.2	-0.1	0.0	0.0	0.0	0.0
21	40	0.1	-0.1	0.0	0.0	0.0	0.0	43	0.2	0.1	0.0	0.0	0.0	0.0
	5	-0.2	-0.1	0.0	0.0	0.0	0.0	7	-0.1	0.0	0.0	0.0	0.0	0.0
22	47	-0.1	0.0	0.0	0.0	0.0	0.0	36	-0.1	-0.1	0.0	0.0	0.0	0.0
	18	0.1	0.1	0.0	0.0	0.0	0.0	17	0.1	0.0	0.0	0.0	0.0	0.0
23	35	0.1	0.0	0.0	0.0	0.0	0.0	39	-0.1	-0.1	0.0	0.0	0.0	0.0
	14	0.1	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	-0.1	-0.1	0.0	0.0	0.0	0.0	46	0.2	0.1	0.0	0.0	0.0	0.0
	11	-0.1	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.1	0.0	0.0	0.0	0.0	0.0	38	-0.1	0.0	0.0	0.0	0.0	0.0
	36	0.1	0.0	0.0	0.0	0.0	0.0	35	-0.1	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.1	0.0	0.0	0.0	0.0	0.0	38	-0.1	0.0	0.0	0.0	0.0	0.0
27	41	0.0	-0.1	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.1	0.1	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	-0.1	0.0	0.0	0.0	0.0	0.0	29	-0.1	-0.1	0.0	0.0	0.0	0.0
	41	0.1	0.1	0.0	0.0	0.0	0.0	42	0.1	0.0	0.0	0.0	0.0	0.0
29	44	-0.2	0.1	0.0	0.0	0.0	0.0	45	0.2	-0.1	0.0	0.0	0.0	0.0
	43	-0.2	-0.1	0.0	0.0	0.0	0.0	34	0.2	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.1	0.0	0.0	0.0	0.0	0.0
	44	-0.2	-0.1	0.0	0.0	0.0	0.0	45	0.1	0.1	0.0	0.0	0.0	0.0
31	48	-0.1	0.1	0.0	0.0	0.0	0.0	49	0.1	0.0	0.0	0.0	0.0	0.0
	46	-0.1	-0.1	0.0	0.0	0.0	0.0	47	0.1	0.0	0.0	0.0	0.0	0.0
32	32	0.1	0.0	0.0	0.0	0.0	0.0	33	0.1	0.1	0.0	0.0	0.0	0.0
	48	-0.2	-0.1	0.0	0.0	0.0	0.0	49	-0.1	0.1	0.0	0.0	0.0	0.0
33	42	-0.1	0.0	0.0	0.0	0.0	0.0	44	0.0	0.1	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.1	-0.1	0.0	0.0	0.0	0.0
34	29	-0.2	0.1	0.0	0.0	0.0	0.0	30	-0.1	0.0	0.0	0.0	0.0	0.0
	42	0.1	0.1	0.0	0.0	0.0	0.0	44	0.1	-0.1	0.0	0.0	0.0	0.0
35	49	0.0	-0.1	0.0	0.0	0.0	0.0	37	0.1	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.1	0.0	0.0	0.0	0.0
36	33	0.1	-0.1	0.0	0.0	0.0	0.0	26	0.1	0.0	0.0	0.0	0.0	0.0
	49	-0.1	0.0	0.0	0.0	0.0	0.0	37	0.0	0.1	0.0	0.0	0.0	0.0
37	38	0.1	0.0	0.0	0.0	0.0	0.0	41	-0.1	-0.1	0.0	0.0	0.0	0.0
	35	0.1	0.0	0.0	0.0	0.0	0.0	39	-0.1	0.1	0.0	0.0	0.0	0.0
38	27	0.1	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	-0.1	0.1	0.0	0.0	0.0	0.0
39	45	-0.2	-0.1	0.0	0.0	0.0	0.0	48	0.2	0.1	0.0	0.0	0.0	0.0
	34	-0.2	0.1	0.0	0.0	0.0	0.0	46	0.2	-0.1	0.0	0.0	0.0	0.0
40	31	-0.1	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	-0.1	0.1	0.0	0.0	0.0	0.0	48	0.2	-0.1	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO12: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 0°°: MODO12: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.1	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.1	0.0	0.0	0.0	0.0	0.0	47	-0.1	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	-0.1	0.0	0.0	0.0	0.0	0.0
	18	0.1	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.1	0.0	0.0	0.0	0.0	0.0	38	-0.1	0.0	0.0	0.0	0.0	0.0
	36	0.1	0.0	0.0	0.0	0.0	0.0	35	-0.1	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.1	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.1	0.0	0.0	0.0	0.0	0.0	49	-0.1	0.0	0.0	0.0	0.0	0.0
	46	0.1	0.0	0.0	0.0	0.0	0.0	47	-0.1	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.1	0.0	0.0	0.0	0.0	0.0	49	-0.1	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.1	0.0	0.0	0.0	0.0	0.0	37	-0.1	0.0	0.0	0.0	0.0	0.0
	47	0.1	0.0	0.0	0.0	0.0	0.0	36	-0.1	0.0	0.0	0.0	0.0	0.0
36	33	0.1	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	-0.1	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO2: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	-0.2	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.2	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	-0.1	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.2	0.0	0.1	0.0	2	0.0	0.0	-0.2	0.0	0.0	0.0
3	7	0.0	0.0	0.1	0.0	0.1	0.0	8	0.0	0.0	-0.1	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	-0.1	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.1	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	-0.2	0.0	0.0	0.0	8	0.0	0.0	0.1	0.0	0.0	0.0
5	11	0.0	0.0	-0.1	0.0	0.0	0.0	12	0.0	0.0	0.1	0.0	0.0	0.0
	7	0.0	0.0	0.1	0.0	0.0	0.0	9	0.0	0.0	-0.1	0.0	0.0	0.0
6	5	0.0	0.0	-0.1	0.0	0.3	0.0	13	0.0	0.0	0.1	0.0	0.0	0.0
	7	0.0	0.0	-0.1	0.0	0.1	0.0	11	0.0	0.0	0.1	0.0	0.0	0.0
7	4	0.0	0.0	-0.1	0.0	0.1	0.0	14	0.0	0.0	0.1	0.0	0.0	0.0
	5	0.0	0.0	-0.1	0.0	0.2	0.0	13	0.0	0.0	0.1	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.1	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	-0.1	0.0	0.0	0.0
9	16	0.0	0.0	0.1	0.0	0.0	0.0	17	0.0	0.0	-0.1	0.0	0.0	0.0
	15	0.0	0.0	-0.1	0.0	0.0	0.0	14	0.0	0.0	0.1	0.0	0.0	0.0
10	17	0.0	0.0	0.1	-0.1	0.0	0.0	18	0.0	0.0	0.1	-0.3	0.0	0.0
	14	0.0	0.0	-0.1	-0.1	0.0	0.0	13	0.0	0.0	-0.1	0.0	0.0	0.0
11	19	0.0	0.0	0.1	0.0	-0.1	0.0	11	0.0	0.0	-0.1	0.0	-0.1	0.0
	18	0.0	0.0	0.2	0.0	-0.3	0.0	13	0.0	0.0	-0.1	0.0	0.0	0.0
12	19	0.0	0.0	-0.1	0.0	0.0	0.0	20	0.0	0.0	0.1	0.0	0.0	0.0
	11	0.0	0.0	0.1	0.0	0.0	0.0	12	0.0	0.0	-0.1	0.0	0.0	0.0
13	19	0.0	0.0	0.1	0.0	0.0	0.0	22	0.0	0.0	-0.1	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.1	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO2: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	19	0.0	0.0	-0.1	0.0	-0.1	0.0	22	0.0	0.0	0.1	0.0	0.0	0.0
15	17	0.0	0.0	-0.1	0.0	-0.1	0.0	24	0.0	0.0	0.1	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.1	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.2	0.0	0.0	0.0	24	0.0	0.0	-0.1	0.0	0.0	0.0
17	36	0.1	-2.5	0.0	0.0	0.1	-0.8	35	6.3	1.5	0.1	0.0	0.0	0.8
	17	-3.5	-0.9	-0.1	0.0	0.0	0.1	14	-2.8	1.9	0.0	0.0	0.0	0.0
18	39	0.2	0.7	0.3	0.0	-0.1	0.2	40	0.4	0.5	-0.9	0.1	-0.1	-0.2
	4	-0.6	-1.1	-0.1	0.1	0.0	-0.1	5	-0.1	-0.1	0.7	0.3	0.0	0.1
19	43	-0.1	2.5	0.0	0.0	-0.1	0.7	34	-6.0	-1.6	-0.1	0.0	0.0	-0.7
	7	3.5	1.0	0.1	0.0	0.0	-0.1	11	2.6	-1.9	0.0	0.0	0.0	0.1
20	46	-0.2	-0.7	-0.2	0.0	0.1	-0.2	47	-0.4	-0.4	0.9	-0.2	0.1	0.2
	19	0.5	1.0	0.1	-0.1	0.0	0.1	18	0.1	0.1	-0.8	-0.4	0.0	-0.1
21	40	-0.4	0.5	-0.9	0.2	0.1	0.2	43	-0.2	0.8	0.2	0.0	0.1	-0.2
	5	0.1	-0.1	0.8	0.3	0.0	-0.1	7	0.6	-1.1	-0.1	0.1	0.0	0.1
22	47	0.4	-0.5	0.9	-0.2	-0.1	-0.2	36	0.2	-0.7	-0.2	0.0	-0.1	0.2
	18	-0.1	0.1	-0.8	-0.3	0.0	0.1	17	-0.5	1.0	0.1	-0.1	0.0	-0.1
23	35	6.0	-1.6	-0.1	0.0	0.0	0.7	39	0.0	2.5	0.0	0.0	0.1	-0.7
	14	-2.6	-1.9	0.0	0.0	0.0	-0.1	4	-3.4	1.0	0.1	0.0	0.0	0.1
24	34	-6.3	1.5	0.1	0.0	0.0	-0.7	46	-0.1	-2.5	0.0	0.0	-0.1	0.8
	11	2.8	1.9	0.0	0.0	0.0	0.0	19	3.5	-0.9	-0.1	0.0	0.0	-0.1
25	37	-2.7	0.3	-0.1	0.0	0.1	0.0	38	-1.8	-1.3	0.1	0.0	0.0	0.1
	36	-0.9	2.1	-0.1	0.0	0.1	0.7	35	5.4	-1.1	0.1	0.0	0.1	-0.8
26	26	-1.2	0.5	-0.1	0.0	0.0	0.0	27	-1.2	-0.6	0.0	0.0	0.0	0.0
	37	1.0	0.7	0.0	0.0	0.1	0.0	38	1.4	-0.6	0.1	0.0	0.0	-0.1
27	41	-0.3	1.3	0.2	0.1	-0.1	0.2	42	0.2	0.4	-0.5	0.3	-0.2	-0.2
	39	-0.1	-1.2	0.2	0.0	-0.1	-0.2	40	0.3	-0.5	0.1	-0.1	-0.2	0.2
28	28	-0.5	0.5	-0.2	0.0	0.0	0.0	29	-0.3	0.0	0.6	0.0	0.0	0.0
	41	0.4	-0.1	0.4	-0.1	-0.1	-0.1	42	0.3	-0.4	-0.8	-0.3	-0.2	0.1
29	44	2.5	-0.4	0.1	0.0	-0.1	0.0	45	1.7	1.3	-0.1	0.0	0.0	-0.1
	43	0.8	-2.0	0.1	0.0	-0.1	-0.7	34	-5.1	1.2	-0.1	0.0	-0.1	0.7
30	30	1.1	-0.5	0.1	0.0	0.0	0.0	31	1.2	0.7	0.0	0.0	0.0	0.0
	44	-1.0	-0.8	0.0	0.0	-0.1	0.0	45	-1.2	0.6	-0.1	0.0	0.0	0.0
31	48	0.3	-1.2	-0.2	-0.1	0.1	-0.2	49	-0.2	-0.4	0.5	-0.3	0.2	0.2
	46	0.1	1.2	-0.1	0.0	0.1	0.2	47	-0.3	0.4	-0.1	0.2	0.2	-0.2
32	32	0.5	-0.5	0.2	0.0	0.0	0.0	33	0.2	0.0	-0.6	0.0	0.0	0.0
	48	-0.4	0.2	-0.4	0.1	0.1	0.1	49	-0.3	0.4	0.8	0.3	0.2	-0.1
33	42	-0.2	0.4	-0.5	0.3	0.2	0.2	44	0.3	1.3	0.2	0.1	0.1	-0.2
	40	-0.3	-0.5	0.1	-0.2	0.2	-0.2	43	0.2	-1.3	0.2	0.0	0.1	0.2
34	29	0.2	0.0	0.6	0.0	0.0	0.0	30	0.5	0.5	-0.2	0.0	0.0	0.0
	42	-0.3	-0.4	-0.8	-0.3	0.2	-0.1	44	-0.4	-0.1	0.4	-0.1	0.1	0.1
35	49	0.2	-0.4	0.5	-0.3	-0.2	-0.2	37	-0.3	-1.2	-0.3	-0.1	-0.1	0.2
	47	0.3	0.5	-0.1	0.2	-0.2	0.2	36	-0.1	1.1	-0.2	0.0	-0.1	-0.2
36	33	-0.2	0.0	-0.6	0.0	0.0	0.0	26	-0.5	-0.5	0.2	0.0	0.0	0.0
	49	0.3	0.4	0.8	0.3	-0.2	0.1	37	0.4	0.1	-0.4	0.1	-0.1	-0.1
37	38	-1.7	1.3	-0.1	0.0	0.0	0.1	41	-2.6	-0.4	0.1	0.0	0.1	0.0
	35	5.2	1.2	-0.1	0.0	0.1	-0.7	39	-0.8	-2.0	0.1	0.0	0.1	0.7
38	27	-1.2	0.6	0.0	0.0	0.0	0.0	28	-1.1	-0.5	0.1	0.0	0.0	0.0
	38	1.2	0.6	-0.1	0.0	0.0	0.0	41	1.0	-0.8	0.0	0.0	0.1	0.0
39	45	1.8	-1.3	0.1	0.0	0.0	-0.1	48	2.6	0.3	-0.1	0.0	-0.1	0.0
	34	-5.3	-1.1	0.1	0.0	-0.1	0.8	46	0.9	2.0	-0.1	0.0	-0.1	-0.7
40	31	1.2	-0.7	0.0	0.0	0.0	0.0	32	1.2	0.5	-0.1	0.0	0.0	0.0
	45	-1.4	-0.6	0.1	0.0	0.0	0.1	48	-1.0	0.8	0.0	0.0	-0.1	0.0

FORZE: SISMA 90°°: MODO3: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO3: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO4: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.1	0.0	-0.1	0.0	13	0.0	0.0	-0.1	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.1	0.0	-0.1	0.0	13	0.0	0.0	-0.1	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	-0.1	0.1	0.0	0.0

FORZE: SISMA 90°°: MODO4: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.1	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	-0.1	0.0	0.1	0.0	13	0.0	0.0	0.1	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	-0.3	0.0	0.0	0.0	-0.1	35	0.7	0.2	0.0	0.0	0.0	0.1
	17	-0.4	-0.1	0.0	0.0	0.0	0.0	14	-0.4	0.2	0.0	0.0	0.0	0.0
18	39	0.0	0.2	0.0	0.0	0.0	0.0	40	0.1	0.1	0.3	-0.1	0.0	0.0
	4	-0.1	-0.2	0.0	0.0	0.0	0.0	5	0.0	-0.1	-0.2	-0.1	0.0	0.0
19	43	0.0	0.3	0.0	0.0	0.0	0.1	34	-0.7	-0.2	0.0	0.0	0.0	-0.1
	7	0.3	0.1	0.0	0.0	0.0	0.0	11	0.3	-0.2	0.0	0.0	0.0	0.0
20	46	0.0	-0.2	0.0	0.0	0.0	0.0	47	0.0	-0.1	-0.3	0.1	0.0	0.0
	19	0.0	0.2	0.0	0.0	0.0	0.0	18	0.0	0.1	0.2	0.1	0.0	0.0
21	40	0.0	0.1	0.3	-0.1	0.0	0.0	43	0.0	0.2	0.0	0.0	0.0	0.0
	5	0.0	-0.1	-0.2	-0.1	0.0	0.0	7	0.1	-0.2	0.0	0.0	0.0	0.0
22	47	0.1	-0.1	-0.3	0.1	0.0	0.0	36	0.0	-0.2	0.0	0.0	0.0	0.0
	18	0.0	0.1	0.2	0.1	0.0	0.0	17	-0.1	0.2	0.0	0.0	0.0	0.0
23	35	0.7	-0.2	0.0	0.0	0.0	0.1	39	0.0	0.3	0.0	0.0	0.0	-0.1
	14	-0.3	-0.2	0.0	0.0	0.0	0.0	4	-0.3	0.1	0.0	0.0	0.0	0.0
24	34	-0.7	0.2	0.0	0.0	0.0	-0.1	46	0.0	-0.3	0.0	0.0	0.0	0.1
	11	0.4	0.2	0.0	0.0	0.0	0.0	19	0.3	-0.1	0.0	0.0	0.0	0.0
25	37	-0.3	0.1	0.0	0.0	0.0	0.0	38	-0.3	-0.2	0.0	0.0	0.0	0.0
	36	0.0	0.3	0.0	0.0	0.0	0.1	35	0.6	-0.1	0.0	0.0	0.0	-0.1
26	26	-0.2	0.1	0.0	0.0	0.0	0.0	27	-0.2	-0.1	0.0	0.0	0.0	0.0
	37	0.2	0.1	0.0	0.0	0.0	0.0	38	0.2	-0.1	0.0	0.0	0.0	0.0
27	41	-0.1	0.2	-0.1	0.0	0.0	0.0	42	0.0	0.1	0.1	-0.1	0.1	0.0
	39	0.0	-0.2	0.0	0.0	0.0	0.0	40	0.1	-0.1	0.0	0.1	0.0	0.0
28	28	-0.1	0.1	0.0	0.0	0.0	0.0	29	0.0	0.0	-0.1	0.0	0.0	0.0
	41	0.0	0.0	-0.1	0.0	0.0	0.0	42	0.1	-0.1	0.2	0.1	0.0	0.0
29	44	0.3	-0.1	0.0	0.0	0.0	0.0	45	0.3	0.2	0.0	0.0	0.0	0.0
	43	0.0	-0.3	0.0	0.0	0.0	-0.1	34	-0.6	0.2	0.0	0.0	0.0	0.1
30	30	0.2	-0.1	0.0	0.0	0.0	0.0	31	0.2	0.1	0.0	0.0	0.0	0.0
	44	-0.2	-0.1	0.0	0.0	0.0	0.0	45	-0.2	0.1	0.0	0.0	0.0	0.0
31	48	0.1	-0.2	0.0	0.0	0.0	0.0	49	0.0	-0.1	-0.1	0.1	-0.1	0.0
	46	0.0	0.2	0.0	0.0	0.0	0.0	47	-0.1	0.1	0.0	-0.1	0.0	0.0
32	32	0.1	-0.1	0.0	0.0	0.0	0.0	33	0.0	0.0	0.1	0.0	0.0	0.0
	48	0.0	0.0	0.1	0.0	0.0	0.0	49	-0.1	0.1	-0.2	-0.1	0.0	0.0
33	42	0.0	0.1	0.1	-0.1	-0.1	0.0	44	0.1	0.2	-0.1	0.0	0.0	0.0
	40	-0.1	-0.1	0.0	0.1	0.0	0.0	43	0.0	-0.2	0.0	0.0	0.0	0.0
34	29	0.0	0.0	-0.1	0.0	0.0	0.0	30	0.1	0.1	0.0	0.0	0.0	0.0
	42	-0.1	-0.1	0.2	0.1	0.0	0.0	44	0.0	0.0	-0.1	0.0	0.0	0.0
35	49	0.0	-0.1	-0.1	0.1	0.1	0.0	37	-0.1	-0.2	0.1	0.0	0.0	0.0
	47	0.1	0.1	0.0	-0.1	0.0	0.0	36	0.0	0.2	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.1	0.0	0.0	0.0	26	-0.1	-0.1	0.0	0.0	0.0	0.0
	49	0.1	0.1	-0.2	-0.1	0.0	0.0	37	0.0	0.0	0.1	0.0	0.0	0.0
37	38	-0.3	0.2	0.0	0.0	0.0	0.0	41	-0.3	-0.1	0.0	0.0	0.0	0.0
	35	0.6	0.2	0.0	0.0	0.0	-0.1	39	0.0	-0.3	0.0	0.0	0.0	0.1
38	27	-0.2	0.1	0.0	0.0	0.0	0.0	28	-0.1	-0.1	0.0	0.0	0.0	0.0
	38	0.2	0.1	0.0	0.0	0.0	0.0	41	0.2	-0.1	0.0	0.0	0.0	0.0
39	45	0.3	-0.2	0.0	0.0	0.0	0.0	48	0.3	0.1	0.0	0.0	0.0	0.0
	34	-0.7	-0.2	0.0	0.0	0.0	0.1	46	0.0	0.3	0.0	0.0	0.0	-0.1
40	31	0.2	-0.1	0.0	0.0	0.0	0.0	32	0.2	0.1	0.0	0.0	0.0	0.0
	45	-0.2	-0.1	0.0	0.0	0.0	0.0	48	-0.2	0.1	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO7: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO7: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO8: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO8: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO9: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO9: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	-0.1	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.1	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.1	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	-0.1	0.0	0.0	0.0
21	40	0.0	0.0	-0.1	0.1	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.1	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.1	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	-0.1	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.1	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	-0.1	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	-0.1	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.1	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	-0.1	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.1	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.1	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	-0.1	0.0	0.0	0.0
33	42	0.0	0.0	0.1	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	-0.1	-0.1	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	-0.1	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.1	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	-0.1	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.1	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	-0.1	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO10: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO10: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO11: SHELL

Shell	Nodo	Tx	Ty	Tz	Mx	My	Mz	Nodo	Tx	Ty	Tz	Mx	My	Mz

Nro	N.ro	(kN)	(kN)	(kN)	(kN*m)	(kN*m)	(kN*m)	N.ro	(kN)	(kN)	(kN)	(kN*m)	(kN*m)	(kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
	46	0.0	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	0.0	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.0	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE: SISMA 90°°: MODO12: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	-0.1	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0
19	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	-0.1	0.0	0.0	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
21	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0
22	47	0.0	0.0	0.0	0.0	0.0	0.0	36	0.1	0.0	0.0	0.0	0.0	0.0
	18	-0.1	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
	36	0.0	0.0	0.0	0.0	0.0	0.0	35	0.1	0.0	0.0	0.0	0.0	0.0
26	26	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0
	37	0.0	0.0	0.0	0.0	0.0	0.0	38	0.0	0.0	0.0	0.0	0.0	0.0
27	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
	39	0.0	0.0	0.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0	0.0
28	28	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0
	41	0.0	0.0	0.0	0.0	0.0	0.0	42	0.0	0.0	0.0	0.0	0.0	0.0
29	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
	43	0.0	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0
	44	0.0	0.0	0.0	0.0	0.0	0.0	45	0.0	0.0	0.0	0.0	0.0	0.0
31	48	-0.1	0.0	0.0	0.0	0.0	0.0	49	0.1	0.0	0.0	0.0	0.0	0.0
	46	-0.1	0.0	0.0	0.0	0.0	0.0	47	0.1	0.0	0.0	0.0	0.0	0.0
32	32	0.0	0.0	0.0	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0
	48	-0.1	0.0	0.0	0.0	0.0	0.0	49	0.0	0.0	0.0	0.0	0.0	0.0
33	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0	0.0
34	29	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0
	42	0.0	0.0	0.0	0.0	0.0	0.0	44	0.0	0.0	0.0	0.0	0.0	0.0
35	49	-0.1	0.0	0.0	0.0	0.0	0.0	37	0.1	0.0	0.0	0.0	0.0	0.0
	47	-0.1	0.0	0.0	0.0	0.0	0.0	36	0.1	0.0	0.0	0.0	0.0	0.0
36	33	-0.1	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0
	49	0.0	0.0	0.0	0.0	0.0	0.0	37	0.1	0.0	0.0	0.0	0.0	0.0
37	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0
38	27	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0
	38	0.0	0.0	0.0	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0	0.0
39	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0
	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0
40	31	0.0	0.0	0.0	0.0	0.0	0.0	32	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	48	0.0	0.0	0.0	0.0	0.0	0.0

FORZE PESO PROPRIO: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	-0.3	-0.3	-0.1	0.0	4	0.0	0.0	3.6	-0.2	0.1	0.0
	1	0.0	0.0	0.1	0.0	0.0	0.0	2	0.0	0.0	-3.3	0.0	0.0	0.0
2	5	0.0	0.0	-0.5	-0.5	1.1	0.0	6	0.0	0.0	1.6	0.4	0.0	0.0
	4	0.0	0.0	-4.0	-0.2	-0.5	0.0	2	0.0	0.0	4.8	0.0	0.0	0.0
3	7	0.0	0.0	-1.9	0.2	-0.6	0.0	8	0.0	0.0	2.9	-0.1	-0.1	0.0
	5	0.0	0.0	-0.1	0.5	1.1	0.0	6	0.0	0.0	1.2	-0.4	0.0	0.0
4	9	0.0	0.0	-1.3	-0.1	-0.1	0.0	10	0.0	0.0	0.1	0.0	0.0	0.0
	7	0.0	0.0	2.6	0.1	-0.1	0.0	8	0.0	0.0	-1.3	0.1	0.1	0.0
5	11	0.0	0.0	0.0	-0.4	1.0	0.0	12	0.0	0.0	1.1	0.4	0.0	0.0
	7	0.0	0.0	-1.9	-0.2	-0.6	0.0	9	0.0	0.0	2.8	0.1	-0.1	0.0
6	5	0.0	0.0	2.1	-1.7	2.0	0.0	13	0.0	0.0	17.2	-4.7	4.9	0.0
	7	0.0	0.0	4.2	-1.9	1.9	0.0	11	0.0	0.0	2.9	-2.0	2.0	0.0
7	4	0.0	0.0	3.6	2.1	1.7	0.0	14	0.0	0.0	1.7	2.0	1.8	0.0
	5	0.0	0.0	2.2	2.0	1.8	0.0	13	0.0	0.0	16.9	4.8	4.6	0.0
8	3	0.0	0.0	1.8	0.1	-0.3	0.0	15	0.0	0.0	0.9	0.2	-0.4	0.0
	4	0.0	0.0	-0.9	0.1	0.4	0.0	14	0.0	0.0	0.2	-0.6	0.5	0.0
9	16	0.0	0.0	2.9	-0.1	0.1	0.0	17	0.0	0.0	-2.0	0.2	0.7	0.0
	15	0.0	0.0	2.0	-0.4	-0.2	0.0	14	0.0	0.0	-0.8	0.5	-1.0	0.0
10	17	0.0	0.0	4.1	1.8	2.0	0.0	18	0.0	0.0	3.2	1.7	2.1	0.0
	14	0.0	0.0	1.9	1.7	2.1	0.0	13	0.0	0.0	17.1	4.6	5.0	0.0
11	19	0.0	0.0	4.6	2.0	1.9	0.0	11	0.0	0.0	3.0	2.2	1.8	0.0
	18	0.0	0.0	3.4	2.0	1.9	0.0	13	0.0	0.0	17.5	5.0	4.9	0.0
12	19	0.0	0.0	-1.9	0.2	-0.6	0.0	20	0.0	0.0	2.9	-0.1	-0.1	0.0
	11	0.0	0.0	-0.6	0.4	1.1	0.0	12	0.0	0.0	1.8	-0.4	0.0	0.0
13	19	0.0	0.0	2.6	-0.1	-0.1	0.0	22	0.0	0.0	-1.3	-0.1	0.1	0.0
	20	0.0	0.0	-1.3	0.1	-0.1	0.0	21	0.0	0.0	0.1	0.0	0.0	0.0
14	18	0.0	0.0	-0.6	-0.5	1.2	0.0	23	0.0	0.0	1.8	0.4	0.0	0.0
	19	0.0	0.0	-1.9	-0.2	-0.6	0.0	22	0.0	0.0	2.9	0.1	-0.1	0.0
15	17	0.0	0.0	-2.0	0.2	-0.6	0.0	24	0.0	0.0	2.9	-0.1	-0.1	0.0
	18	0.0	0.0	0.0	0.5	1.1	0.0	23	0.0	0.0	1.1	-0.4	0.0	0.0
16	16	0.0	0.0	-1.3	-0.1	-0.1	0.0	25	0.0	0.0	0.1	0.0	0.0	0.0
	17	0.0	0.0	2.7	0.1	-0.1	0.0	24	0.0	0.0	-1.4	0.1	0.1	0.0
17	36	2.6	-7.0	-0.8	0.2	0.1	-2.7	35	1.6	-11.0	-1.7	0.2	0.0	3.6
	17	-0.9	9.5	0.7	0.5	0.0	2.6	14	-3.3	18.0	1.9	1.3	0.1	-3.5
18	39	2.3	-6.5	-0.7	0.0	0.1	-2.3	40	1.7	-10.5	-0.3	-0.2	0.2	3.3
	4	-0.7	8.6	0.4	0.3	0.0	2.1	5	-3.3	17.2	0.5	0.7	0.1	-3.1
19	43	2.6	-7.8	-0.6	0.2	0.1	-2.5	34	1.8	-11.2	-1.3	0.2	0.0	3.3
	7	-1.3	9.6	0.4	0.3	0.0	2.6	11	-3.1	18.2	1.5	1.1	0.1	-3.4
20	46	2.6	-7.4	-0.5	0.0	0.1	-2.7	47	1.5	-11.0	-0.3	-0.2	0.1	3.7
	19	-0.7	10.0	0.3	0.2	0.0	2.6	18	-3.4	17.9	0.5	0.7	0.1	-3.5
21	40	-1.6	-11.0	-0.4	-0.2	-0.2	-3.6	43	-2.4	-6.7	-0.7	0.0	-0.1	2.6
	5	3.3	17.9	0.6	0.8	-0.1	3.4	7	0.7	9.3	0.5	0.3	0.0	-2.5
22	47	-1.6	-11.1	-0.3	-0.2	-0.1	-3.3	36	-2.4	-7.4	-0.5	0.0	-0.1	2.4
	18	3.0	17.7	0.5	0.7	-0.1	3.3	17	1.0	9.5	0.3	0.2	0.0	-2.4
23	35	-1.7	-11.1	-1.5	0.2	0.0	-3.3	39	-2.5	-7.4	-0.6	0.2	-0.1	2.4
	14	3.0	17.8	1.7	1.2	-0.1	3.3	4	1.2	9.4	0.4	0.4	0.0	-2.5
24	34	-1.5	-11.3	-1.4	0.2	0.0	-3.7	46	-2.8	-7.7	-0.6	0.2	-0.1	2.8
	11	3.4	18.3	1.6	1.1	-0.1	3.6	19	0.8	10.2	0.5	0.4	0.0	-2.7
25	37	1.7	-4.1	-0.4	0.3	0.0	-1.6	38	0.7	-5.3	0.1	0.1	0.0	1.8
	36	-2.7	7.5	0.4	0.2	0.0	2.4	35	0.3	11.4	-0.1	-0.2	0.0	-2.6
26	26	1.5	0.0	-0.6	0.2	0.0	-0.2	27	-0.4	0.0	0.1	0.0	0.0	0.3
	37	-1.9	4.2	0.6	0.2	0.0	1.1	38	0.8	5.3	-0.1	-0.1	0.0	-1.2
27	41	1.5	-3.8	-0.6	0.2	0.0	-1.3	42	0.7	-4.7	-0.1	0.0	0.1	1.5
	39	-2.5	6.9	0.4	0.3	0.0	2.0	40	0.2	10.4	0.3	0.2	0.1	-2.2
28	28	1.1	0.1	-0.4	0.2	0.0	-0.2	29	-0.4	0.0	-0.1	0.0	0.0	0.3
	41	-1.4	3.9	0.4	0.2	0.0	0.9	42	0.7	4.8	0.2	0.0	0.1	-0.9
29	44	1.6	-4.1	-0.4	0.2	0.0	-1.4	45	1.0	-5.0	0.1	0.0	0.0	1.6
	43	-2.8	7.0	0.4	0.2	0.0	2.1	34	0.2	10.9	-0.1	-0.2	0.0	-2.3
30	30	1.3	-0.1	-0.6	0.2	0.0	-0.3	31	-0.1	0.0	0.1	0.0	0.0	0.3
	44	-1.8	3.8	0.6	0.2	0.0	0.9	45	0.5	5.1	-0.1	0.0	0.0	-1.0
31	48	1.8	-4.1	-0.6	0.2	0.0	-1.6	49	0.7	-5.3	-0.2	0.0	0.1	1.7
	46	-2.8	7.5	0.5	0.3	0.0	2.4	47	0.3	11.4	0.3	0.2	0.1	-2.6
32	32	1.3	0.1	-0.5	0.2	0.0	-0.2	33	-0.5	0.0	-0.1	0.0	0.0	0.3
	48	-1.7	4.2	0.4	0.3	0.0	1.1	49	0.8	5.2	0.1	0.0	0.0	-1.1
33	42	-0.5	-5.2	-0.2	0.0	-0.1	-1.7	44	-1.7	-3.9	-0.6	0.2	0.0	1.5
	40	-0.3	11.1	0.3	0.2	-0.1	2.5	43	2.6	7.5	0.5	0.3	0.0	-2.3
34	29	0.6	0.0	-0.1	0.0	0.0	-0.3	30	-1.3	0.1	-0.5	0.3	0.0	0.2
	42	-0.9	5.1	0.2	0.0	-0.1	1.1	44	1.6	4.3	0.4	0.3	0.0	-1.1
35	49	-0.9	-4.8	-0.1	0.0	-0.1	-1.5	37	-1.6	-3.9	-0.6	0.2	0.0	1.4
	47	-0.2	10.7	0.3	0.1	-0.1	2.2	36	2.8	6.9	0.4	0.3	0.0	-2.1
36	33	0.2	0.0	-0.1	0.0	0.0	-0.3	26	-1.2	0.0	-0.5	0.2	0.0	0.2
	49	-0.6	4.9	0.1	0.0	0.0	0.9	37	1.5	3.9	0.4	0.2	0.0	-0.9
37	38	-0.9	-5.0	0.2	0.1	0.0	-1.6	41	-1.5	-4.0	-0.4	0.2	0.0	1.4
	35	-0.4	10.7	-0.1	-0.2	0.0	2.3	39	2.7	7.1	0.3	0.1	0.0	-2.1
38	27	0.2	0.0	0.1	0.0	0.0	-0.3	28	-1.2	-0.1	-0.5	0.2	0.0	0.2
	38	-0.6	5.0	-0.2	-0.1	0.0	1.0	41	1.7	3.9	0.5	0.2	0.0	-0.9
39	45	-0.8	-5.5	0.1	0.0	0.0	-1.8	48	-1.8	-4.3	-0.4	0.2	0.0	1.6
	34	-0.2	11.6	-0.1	-0.2	0.0	2.6	46	2.8	7.7	0.4	0.2	0.0	-2.5
40	31	0.3	0.0	0.1	0.0	0.0	-0.3	32	-1.5	-0.1	-0.6	0.2	0.0	0.2
	45	-0.8	5.4	-0.1	-0.1	0.0	1.2	48	2.0	4.2	0.6	0.2	0.0	-1.1

FORZE SOVRACCARICO PERMAN.: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.2	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	-0.2	0.0	0.0	0.0
2	5	0.0	0.0	-0.1	0.0	0.1	0.0	6	0.0	0.0	0.1	0.0	0.0	0.0
	4	0.0	0.0	-0.3	0.0	0.0	0.0	2	0.0	0.0	0.3	0.0	0.0	0.0
3	7	0.0	0.0	-0.2	0.0	0.0	0.0	8	0.0	0.0	0.2	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.1	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	-0.1	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.2	0.0	0.0	0.0	8	0.0	0.0	-0.1	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.1	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	-0.1	0.0	0.0	0.0	9	0.0	0.0	0.1	0.0	0.0	0.0
6	5	0.0	0.0	-0.2	-0.1	0.1	0.0	13	0.0	0.0	0.7	-0.3	0.3	0.0
	7	0.0	0.0	-0.1	-0.1	0.1	0.0	11	0.0	0.0	-0.3	-0.1	0.1	0.0
7	4	0.0	0.0	-0.1	0.1	0.1	0.0	14	0.0	0.0	-0.3	0.1	0.1	0.0
	5	0.0	0.0	-0.2	0.1	0.1	0.0	13	0.0	0.0	0.7	0.3	0.3	0.0
8	3	0.0	0.0	0.1	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	-0.1	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.1	0.0	0.0	0.0	17	0.0	0.0	-0.1	0.0	0.0	0.0
	15	0.0	0.0	0.1	0.0	0.0	0.0	14	0.0	0.0	-0.1	0.0	-0.1	0.0
10	17	0.0	0.0	-0.1	0.1	0.1	0.0	18	0.0	0.0	-0.2	0.1	0.1	0.0
	14	0.0	0.0	-0.3	0.1	0.1	0.0	13	0.0	0.0	0.7	0.3	0.3	0.0
11	19	0.0	0.0	-0.1	0.1	0.1	0.0	11	0.0	0.0	-0.3	0.2	0.1	0.0
	18	0.0	0.0	-0.2	0.1	0.1	0.0	13	0.0	0.0	0.6	0.3	0.3	0.0
12	19	0.0	0.0	-0.1	0.0	0.0	0.0	20	0.0	0.0	0.1	0.0	0.0	0.0
	11	0.0	0.0	-0.1	0.0	0.1	0.0	12	0.0	0.0	0.1	0.0	0.0	0.0
13	19	0.0	0.0	0.2	0.0	0.0	0.0	22	0.0	0.0	-0.1	0.0	0.0	0.0
	20	0.0	0.0	-0.1	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	-0.1	0.0	0.1	0.0	23	0.0	0.0	0.1	0.0	0.0	0.0
	19	0.0	0.0	-0.2	0.0	0.0	0.0	22	0.0	0.0	0.2	0.0	0.0	0.0
15	17	0.0	0.0	-0.2	0.0	0.0	0.0	24	0.0	0.0	0.2	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.1	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	-0.1	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.2	0.0	0.0	0.0	24	0.0	0.0	-0.1	0.0	0.0	0.0
17	36	-0.2	-0.3	0.0	0.0	0.0	-0.2	35	-0.5	-1.5	-0.1	0.0	0.0	0.3
	17	0.5	0.7	0.0	0.0	0.0	0.2	14	0.2	1.1	0.1	0.1	0.0	-0.3
18	39	0.2	-0.6	0.0	0.0	0.0	-0.2	40	0.2	-0.8	0.0	0.0	0.0	0.2
	4	-0.1	0.4	0.0	0.0	0.0	0.1	5	-0.3	1.0	0.0	0.0	0.0	-0.2
19	43	-0.2	-0.4	0.0	0.0	0.0	-0.2	34	-0.4	-1.5	-0.1	0.0	0.0	0.3
	7	0.4	0.7	0.0	0.0	0.0	0.2	11	0.1	1.2	0.1	0.1	0.0	-0.3
20	46	0.2	-0.7	0.0	0.0	0.0	-0.2	47	0.2	-0.8	0.0	0.0	0.0	0.2
	19	-0.1	0.5	0.0	0.0	0.0	0.2	18	-0.3	1.1	0.0	0.0	0.0	-0.2
21	40	-0.2	-0.8	0.0	0.0	0.0	-0.2	43	-0.2	-0.7	0.0	0.0	0.0	0.2
	5	0.3	1.1	0.0	0.0	0.0	0.2	7	0.1	0.4	0.0	0.0	0.0	-0.2
22	47	-0.2	-0.8	0.0	0.0	0.0	-0.2	36	-0.2	-0.7	0.0	0.0	0.0	0.2
	18	0.3	1.0	0.0	0.0	0.0	0.2	17	0.2	0.5	0.0	0.0	0.0	-0.2
23	35	0.4	-1.5	-0.1	0.0	0.0	-0.3	39	0.2	-0.4	0.0	0.0	0.0	0.2
	14	-0.1	1.2	0.1	0.1	0.0	0.3	4	-0.4	0.7	0.0	0.0	0.0	-0.2
24	34	0.5	-1.6	-0.1	0.0	0.0	-0.3	46	0.2	-0.3	0.0	0.0	0.0	0.2
	11	-0.2	1.2	0.1	0.1	0.0	0.3	19	-0.5	0.7	0.0	0.0	0.0	-0.2
25	37	-0.3	-0.3	0.0	0.0	0.0	-0.1	38	-0.4	-0.2	0.0	0.0	0.0	0.0
	36	0.2	0.6	0.0	0.0	0.0	0.1	35	0.4	-0.2	0.0	0.0	0.0	0.0
26	26	-0.1	-0.3	-0.1	0.0	0.0	0.0	27	-0.4	-0.4	0.0	0.0	0.0	0.1
	37	0.3	0.5	0.1	0.0	0.0	0.1	38	0.2	0.1	0.0	0.0	0.0	-0.1
27	41	0.2	-0.7	0.0	0.0	0.0	-0.1	42	0.2	-0.6	0.0	0.0	0.0	0.2
	39	-0.2	0.4	0.0	0.0	0.0	0.2	40	-0.2	0.8	0.0	0.0	0.0	-0.2
28	28	0.3	-0.5	0.0	0.0	0.0	0.0	29	0.0	-0.4	0.0	0.0	0.0	0.1
	41	-0.2	0.4	0.0	0.0	0.0	0.1	42	-0.1	0.6	0.0	0.0	0.0	-0.2
29	44	-0.3	-0.2	0.0	0.0	0.0	-0.1	45	-0.3	-0.1	0.0	0.0	0.0	0.0
	43	0.2	0.6	0.0	0.0	0.0	0.1	34	0.5	-0.2	0.0	0.0	0.0	0.0
30	30	-0.1	-0.3	-0.1	0.0	0.0	0.0	31	-0.4	-0.4	0.0	0.0	0.0	0.1
	44	0.3	0.5	0.1	0.0	0.0	0.1	45	0.2	0.2	0.0	0.0	0.0	-0.1
31	48	0.2	-0.7	0.0	0.0	0.0	-0.2	49	0.2	-0.6	0.0	0.0	0.0	0.2
	46	-0.3	0.4	0.0	0.0	0.0	0.2	47	-0.1	0.8	0.0	0.0	0.0	-0.2
32	32	0.4	-0.6	0.0	0.0	0.0	0.0	33	-0.1	-0.4	0.0	0.0	0.0	0.1
	48	-0.2	0.4	0.0	0.0	0.0	0.1	49	-0.1	0.6	0.0	0.0	0.0	-0.2
33	42	-0.2	-0.6	0.0	0.0	0.0	-0.2	44	-0.2	-0.7	0.0	0.0	0.0	0.2
	40	0.2	0.8	0.0	0.0	0.0	0.2	43	0.2	0.5	0.0	0.0	0.0	-0.2
34	29	0.1	-0.4	0.0	0.0	0.0	-0.1	30	-0.4	-0.6	0.0	0.0	0.0	0.0
	42	0.1	0.6	0.0	0.0	0.0	0.2	44	0.2	0.4	0.0	0.0	0.0	-0.1
35	49	-0.2	-0.5	0.0	0.0	0.0	-0.1	37	-0.2	-0.6	0.0	0.0	0.0	0.1
	47	0.1	0.8	0.0	0.0	0.0	0.2	36	0.3	0.4	0.0	0.0	0.0	-0.2
36	33	0.0	-0.4	0.0	0.0	0.0	-0.1	26	-0.3	-0.6	0.0	0.0	0.0	0.0
	49	0.2	0.6	0.0	0.0	0.0	0.2	37	0.2	0.4	0.0	0.0	0.0	-0.1
37	38	0.3	-0.1	0.0	0.0	0.0	0.0	41	0.3	-0.2	0.0	0.0	0.0	0.1
	35	-0.5	-0.2	0.0	0.0	0.0	0.0	39	-0.2	0.6	0.0	0.0	0.0	-0.1
38	27	0.4	-0.4	0.0	0.0	0.0	-0.1	28	0.1	-0.2	-0.1	0.0	0.0	0.0
	38	-0.2	0.2	0.0	0.0	0.0	0.1	41	-0.3	0.5	0.1	0.0	0.0	-0.1
39	45	0.4	-0.2	0.0	0.0	0.0	0.0	48	0.3	-0.3	0.0	0.0	0.0	0.1
	34	-0.4	-0.2	0.0	0.0	0.0	0.0	46	-0.2	0.6	0.0	0.0	0.0	-0.1
40	31	0.4	-0.4	0.0	0.0	0.0	-0.1	32	0.1	-0.3	-0.1	0.0	0.0	0.0

FORZE SOVRACCARICO PERMAN.: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	45	-0.2	0.1	0.0	0.0	0.0	0.1	48	-0.3	0.5	0.1	0.0	0.0	-0.1

FORZE SPINTA TERR STATICA: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.9	0.1	0.0	0.0	4	0.0	0.0	-2.1	0.1	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	1.2	-0.1	-0.1	0.0
2	5	0.0	0.0	-0.2	0.6	-1.3	0.0	6	0.0	0.0	0.3	-0.6	0.0	0.0
	4	0.0	0.0	1.1	-0.1	1.1	0.0	2	0.0	0.0	-1.3	-0.1	0.1	0.0
3	7	0.0	0.0	0.9	0.1	1.1	0.0	8	0.0	0.0	-1.0	0.1	0.1	0.0
	5	0.0	0.0	0.5	-0.6	-1.4	0.0	6	0.0	0.0	-0.4	0.6	0.0	0.0
4	9	0.0	0.0	0.9	0.0	0.1	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	-1.9	0.0	0.1	0.0	8	0.0	0.0	1.0	-0.1	-0.1	0.0
5	11	0.0	0.0	0.1	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.8	-0.1	-0.1	0.0	9	0.0	0.0	-0.9	-0.1	0.0	0.0
6	5	0.0	0.0	-3.3	1.3	4.9	0.0	13	0.0	0.0	0.9	1.8	0.2	0.0
	7	0.0	0.0	-1.8	0.0	2.2	0.0	11	0.0	0.0	4.2	0.9	0.6	0.0
7	4	0.0	0.0	-1.6	0.0	2.0	0.0	14	0.0	0.0	4.2	-1.0	0.6	0.0
	5	0.0	0.0	-3.1	-1.3	4.6	0.0	13	0.0	0.0	0.5	-1.8	0.1	0.0
8	3	0.0	0.0	-0.9	0.0	0.1	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.8	0.1	0.1	0.0	14	0.0	0.0	0.1	0.0	0.0	0.0
9	16	0.0	0.0	-1.0	0.1	0.0	0.0	17	0.0	0.0	1.0	0.1	0.1	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.1	0.0	0.0	0.0
10	17	0.0	0.0	-1.3	1.9	0.0	0.0	18	0.0	0.0	-3.1	4.6	-1.5	0.0
	14	0.0	0.0	4.1	0.7	-1.1	0.0	13	0.0	0.0	0.2	0.1	-2.0	0.0
11	19	0.0	0.0	-1.4	0.0	2.2	0.0	11	0.0	0.0	4.1	-1.0	0.7	0.0
	18	0.0	0.0	-3.2	-1.5	4.9	0.0	13	0.0	0.0	0.6	-2.0	0.2	0.0
12	19	0.0	0.0	0.9	0.1	-0.1	0.0	20	0.0	0.0	-0.9	0.1	0.0	0.0
	11	0.0	0.0	0.1	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	-1.9	0.0	0.1	0.0	22	0.0	0.0	1.0	0.1	-0.1	0.0
	20	0.0	0.0	0.9	0.0	0.1	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.5	0.6	-1.4	0.0	23	0.0	0.0	-0.4	-0.6	0.0	0.0
	19	0.0	0.0	0.9	-0.1	1.1	0.0	22	0.0	0.0	-1.0	-0.1	0.1	0.0
15	17	0.0	0.0	0.9	0.1	1.1	0.0	24	0.0	0.0	-1.1	0.1	0.1	0.0
	18	0.0	0.0	-0.2	-0.6	-1.3	0.0	23	0.0	0.0	0.4	0.6	0.0	0.0
16	16	0.0	0.0	1.0	0.0	0.1	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	-2.1	0.0	0.1	0.0	24	0.0	0.0	1.1	-0.1	-0.1	0.0
17	36	8.5	-0.7	12.9	-0.6	-1.1	1.8	35	-5.7	6.1	13.7	-1.7	-0.1	-1.4
	17	2.2	-0.8	10.8	-0.2	-0.2	-1.7	14	-5.0	-4.6	7.8	-1.0	-0.3	1.4
18	39	12.2	-6.7	10.9	1.8	-1.1	0.7	40	-3.9	1.5	-5.5	3.9	-2.1	-0.6
	4	-1.6	1.9	12.1	2.4	-0.2	0.4	5	-6.7	3.3	24.4	5.9	0.3	-0.4
19	43	8.7	-1.2	12.0	-0.6	-1.1	1.6	34	-5.9	5.4	12.6	-1.6	-0.1	-1.2
	7	2.5	-0.5	10.0	-0.2	-0.2	-1.6	11	-5.2	-3.8	7.2	-0.9	-0.3	1.2
20	46	12.8	-6.5	10.8	2.0	-1.1	0.8	47	-4.3	2.1	-5.2	4.2	-2.1	-0.8
	19	-1.7	1.9	13.6	2.7	-0.2	0.4	18	-6.7	2.5	26.0	6.3	0.4	-0.4
21	40	4.0	1.7	-5.1	4.2	2.1	0.6	43	-12.1	-6.4	10.9	2.0	1.1	-0.7
	5	6.5	2.6	25.9	6.3	-0.3	0.5	7	1.6	2.1	13.6	2.7	0.2	-0.4
22	47	4.2	1.8	-5.6	3.9	2.1	0.7	36	-12.8	-6.8	10.9	1.8	1.1	-0.8
	18	7.0	3.2	24.5	5.9	-0.3	0.4	17	1.7	1.8	12.1	2.4	0.2	-0.3
23	35	5.9	5.4	12.6	-1.6	0.2	1.2	39	-8.5	-1.0	12.1	-0.6	1.2	-1.5
	14	5.1	-3.9	7.1	-1.0	0.3	-1.3	4	-2.5	-0.5	10.0	-0.2	0.2	1.6
24	34	5.7	6.1	13.7	-1.7	0.1	1.4	46	-8.8	-0.9	12.8	-0.6	1.1	-1.8
	11	5.1	-4.5	7.9	-1.0	0.3	-1.3	19	-2.1	-0.7	10.8	-0.2	0.2	1.7
25	37	8.9	-1.4	9.3	0.8	-1.9	2.0	38	-11.2	5.0	0.6	2.5	-1.5	-1.8
	36	11.9	2.6	10.5	0.9	-1.4	-2.3	35	-9.5	-6.2	12.8	1.7	-0.6	2.1
26	26	-1.8	1.1	6.2	-0.3	-0.3	0.5	27	-6.3	0.3	8.5	0.0	-0.5	-0.4
	37	12.0	3.3	6.6	-0.9	-1.7	-1.5	38	-3.9	-4.6	-0.1	-2.5	-1.2	1.5
27	41	8.4	-4.6	11.8	0.9	-2.0	0.8	42	-8.7	1.1	4.5	3.5	-3.0	-0.8
	39	9.8	4.8	9.6	-1.3	-1.5	-1.0	40	-9.5	-1.3	4.9	-3.9	-2.8	1.0
28	28	1.0	-1.1	4.0	-0.4	-0.4	0.3	29	-3.6	-0.2	11.8	0.0	-0.5	-0.2
	41	7.2	2.6	9.2	-1.4	-1.7	-0.7	42	-4.7	-1.3	-5.3	-3.5	-2.7	0.7
29	44	9.1	-1.6	9.0	0.7	-1.9	1.9	45	-11.4	4.0	0.1	2.4	-1.4	-1.7
	43	12.0	2.9	9.8	0.9	-1.4	-2.1	34	-9.7	-5.3	11.9	1.6	-0.6	1.9
30	30	-1.5	1.1	5.7	-0.3	-0.3	0.5	31	-6.6	-0.3	8.0	0.0	-0.5	-0.4
	44	11.9	3.6	6.5	-0.8	-1.7	-1.3	45	-3.8	-4.4	-0.5	-2.4	-1.2	1.3
31	48	8.3	-4.3	12.1	1.0	-1.8	0.9	49	-9.2	1.8	5.5	3.8	-3.0	-0.9
	46	10.5	4.8	9.9	-1.5	-1.4	-1.2	47	-9.6	-2.3	5.8	-4.2	-2.7	1.2
32	32	0.9	-1.0	4.7	-0.5	-0.3	0.3	33	-3.6	0.2	12.4	0.0	-0.4	-0.2
	48	7.5	2.4	8.8	-1.6	-1.6	-0.8	49	-4.8	-1.6	-4.7	-3.8	-2.7	0.7
33	42	8.7	1.7	5.5	3.8	3.0	0.9	44	-8.3	-4.4	12.1	1.0	1.9	-0.8
	40	9.3	-1.9	5.8	-4.2	2.8	-1.1	43	-9.7	4.6	9.9	-1.5	1.4	1.0
34	29	3.4	0.2	12.3	0.0	0.4	0.2	30	-1.0	-1.1	4.7	-0.5	0.3	-0.3
	42	4.7	-1.5	-4.7	-3.8	2.7	-0.7	44	-7.2	2.4	8.9	-1.5	1.6	0.8
35	49	9.3	1.1	4.5	3.6	3.0	0.9	37	-8.5	-4.5	11.7	0.9	1.9	-0.9
	47	9.8	-1.6	5.0	-3.9	2.8	-1.1	36	-10.5	4.9	9.5	-1.3	1.5	1.1
36	33	3.7	-0.2	11.8	0.0	0.4	0.2	26	-1.0	-1.1	4.0	-0.5	0.4	-0.3
	49	4.8	-1.4	-5.3	-3.6	2.7	-0.7	37	-7.5	2.6	9.1	-1.4	1.6	0.7
37	38	11.4	4.0	0.0	2.4	1.5	1.7	41	-9.0	-1.6	9.1	0.7	1.9	-1.8
	35	9.6	-5.3	11.8	1.6	0.6	-1.9	39	-12.0	2.9	9.8	0.9	1.5	2.1
38	27	6.6	-0.3	7.9	0.0	0.5	0.4	28	1.6	1.1	5.7	-0.3	0.3	-0.4

FORZE SPINTA TERR STATICA: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	38	3.7	-4.4	-0.5	-2.4	1.2	-1.3	41	-11.9	3.6	6.6	-0.8	1.7	1.3
39	45	11.3	5.0	0.6	2.6	1.4	1.9	48	-8.9	-1.4	9.2	0.8	1.8	-2.0
	34	9.6	-6.2	12.9	1.7	0.6	-2.1	46	-11.9	2.6	10.4	0.9	1.4	2.3
40	31	6.3	0.3	8.6	0.0	0.5	0.4	32	1.7	1.0	6.2	-0.3	0.3	-0.5
	45	3.9	-4.6	-0.2	-2.6	1.2	-1.5	48	-12.0	3.2	6.6	-0.9	1.6	1.5

FORZE SPINTA TERRENO SISMI: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.1	0.0	0.0	0.0	4	0.0	0.0	-0.2	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.1	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.1	-0.1	0.0	6	0.0	0.0	0.0	-0.1	0.0	0.0
	4	0.0	0.0	0.1	0.0	0.1	0.0	2	0.0	0.0	-0.1	0.0	0.0	0.0
3	7	0.0	0.0	0.1	0.0	0.1	0.0	8	0.0	0.0	-0.1	0.0	0.0	0.0
	5	0.0	0.0	0.1	-0.1	-0.1	0.0	6	0.0	0.0	0.0	0.1	0.0	0.0
4	9	0.0	0.0	0.1	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	-0.2	0.0	0.0	0.0	8	0.0	0.0	0.1	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.1	0.0	0.0	0.0	9	0.0	0.0	-0.1	0.0	0.0	0.0
6	5	0.0	0.0	-0.4	0.1	0.5	0.0	13	0.0	0.0	0.1	0.2	0.0	0.0
	7	0.0	0.0	-0.2	0.0	0.2	0.0	11	0.0	0.0	0.5	0.1	0.1	0.0
7	4	0.0	0.0	-0.2	0.0	0.2	0.0	14	0.0	0.0	0.5	-0.1	0.1	0.0
	5	0.0	0.0	-0.4	-0.1	0.5	0.0	13	0.0	0.0	0.0	-0.2	0.0	0.0
8	3	0.0	0.0	-0.1	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.1	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	-0.1	0.0	0.0	0.0	17	0.0	0.0	0.1	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	-0.1	0.2	0.0	0.0	18	0.0	0.0	-0.3	0.5	-0.2	0.0
	14	0.0	0.0	0.5	0.1	-0.1	0.0	13	0.0	0.0	0.0	0.0	-0.2	0.0
11	19	0.0	0.0	-0.1	0.0	0.2	0.0	11	0.0	0.0	0.4	-0.1	0.1	0.0
	18	0.0	0.0	-0.4	-0.2	0.5	0.0	13	0.0	0.0	0.1	-0.2	0.0	0.0
12	19	0.0	0.0	0.1	0.0	0.0	0.0	20	0.0	0.0	-0.1	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	-0.2	0.0	0.0	0.0	22	0.0	0.0	0.1	0.0	0.0	0.0
	20	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.1	0.1	-0.2	0.0	23	0.0	0.0	0.0	-0.1	0.0	0.0
	19	0.0	0.0	0.1	0.0	0.1	0.0	22	0.0	0.0	-0.1	0.0	0.0	0.0
15	17	0.0	0.0	0.1	0.0	0.1	0.0	24	0.0	0.0	-0.1	0.0	0.0	0.0
	18	0.0	0.0	0.0	-0.1	-0.1	0.0	23	0.0	0.0	0.0	0.1	0.0	0.0
16	16	0.0	0.0	0.1	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	-0.2	0.0	0.0	0.0	24	0.0	0.0	0.1	0.0	0.0	0.0
17	36	0.9	0.0	1.2	-0.1	-0.1	0.2	35	-0.6	0.6	1.3	-0.3	0.0	-0.2
	17	0.3	-0.1	0.8	0.0	0.0	-0.2	14	-0.5	-0.5	0.5	-0.1	0.0	0.2
18	39	1.3	-0.7	1.0	0.2	-0.1	0.1	40	-0.4	0.1	-0.8	0.4	-0.2	-0.1
	4	-0.2	0.2	1.0	0.3	0.0	0.0	5	-0.7	0.4	2.3	0.6	0.0	0.0
19	43	0.9	-0.1	1.1	-0.1	-0.1	0.2	34	-0.6	0.6	1.2	-0.2	0.0	-0.1
	7	0.3	-0.1	0.8	0.0	0.0	-0.2	11	-0.5	-0.4	0.4	-0.1	0.0	0.1
20	46	1.3	-0.7	0.9	0.2	-0.1	0.1	47	-0.5	0.2	-0.8	0.4	-0.2	-0.1
	19	-0.2	0.2	1.2	0.3	0.0	0.0	18	-0.7	0.3	2.5	0.7	0.0	0.0
21	40	0.4	0.1	-0.8	0.4	0.2	0.1	43	-1.3	-0.7	0.9	0.2	0.1	-0.1
	5	0.7	0.3	2.5	0.7	0.0	0.0	7	0.2	0.2	1.2	0.3	0.0	0.0
22	47	0.4	0.2	-0.8	0.4	0.2	0.1	36	-1.4	-0.7	1.0	0.2	0.1	-0.1
	18	0.7	0.4	2.4	0.6	0.0	0.0	17	0.2	0.2	1.0	0.3	0.0	0.0
23	35	0.6	0.6	1.2	-0.2	0.0	0.1	39	-0.9	-0.1	1.1	-0.1	0.1	-0.2
	14	0.5	-0.4	0.4	-0.1	0.0	-0.1	4	-0.3	-0.1	0.8	0.0	0.0	0.2
24	34	0.6	0.6	1.3	-0.3	0.0	0.2	46	-0.9	-0.1	1.2	-0.1	0.1	-0.2
	11	0.5	-0.5	0.5	-0.1	0.0	-0.1	19	-0.2	-0.1	0.8	0.0	0.0	0.2
25	37	1.2	-0.2	1.0	0.1	-0.2	0.2	38	-1.3	0.6	-0.1	0.4	-0.2	-0.2
	36	1.2	0.3	1.3	0.1	-0.2	-0.2	35	-1.1	-0.7	1.6	0.3	-0.1	0.2
26	26	-0.2	0.1	1.1	0.0	0.0	0.1	27	-0.8	0.0	1.4	0.0	-0.1	0.0
	37	1.5	0.4	1.1	-0.1	-0.2	-0.2	38	-0.5	-0.6	0.2	-0.4	-0.2	0.2
27	41	1.1	-0.6	1.3	0.1	-0.2	0.1	42	-1.0	0.2	0.3	0.5	-0.4	-0.1
	39	1.0	0.5	1.1	-0.1	-0.2	-0.1	40	-1.1	-0.1	0.7	-0.4	-0.3	0.1
28	28	0.1	-0.1	0.8	-0.1	0.0	0.0	29	-0.5	0.0	1.8	0.0	-0.1	0.0
	41	1.0	0.4	1.4	-0.2	-0.2	-0.1	42	-0.6	-0.2	-0.4	-0.5	-0.3	0.1
29	44	1.2	-0.2	1.0	0.1	-0.2	0.2	45	-1.3	0.5	-0.2	0.3	-0.2	-0.2
	43	1.2	0.3	1.2	0.1	-0.2	-0.2	34	-1.2	-0.5	1.5	0.2	-0.1	0.2
30	30	-0.2	0.1	1.0	0.0	0.0	0.1	31	-0.8	0.0	1.3	0.0	-0.1	0.0
	44	1.5	0.5	1.1	-0.1	-0.2	-0.2	45	-0.5	-0.5	0.1	-0.3	-0.2	0.2
31	48	1.1	-0.5	1.3	0.2	-0.2	0.1	49	-1.0	0.3	0.4	0.5	-0.4	-0.1
	46	1.1	0.5	1.2	-0.1	-0.2	-0.1	47	-1.2	-0.2	0.9	-0.4	-0.3	0.1
32	32	0.1	-0.1	0.9	-0.1	0.0	0.0	33	-0.5	0.0	1.9	0.0	0.0	0.0
	48	1.0	0.3	1.4	-0.2	-0.2	-0.1	49	-0.6	-0.2	-0.3	-0.5	-0.3	0.1
33	42	1.0	0.3	0.4	0.5	0.4	0.1	44	-1.1	-0.6	1.3	0.2	0.2	-0.1
	40	1.1	-0.2	0.9	-0.4	0.3	-0.1	43	-1.0	0.5	1.2	-0.1	0.2	0.1
34	29	0.5	0.0	1.8	0.0	0.1	0.0	30	-0.1	-0.1	0.9	-0.1	0.0	0.0
	42	0.6	-0.2	-0.3	-0.5	0.3	-0.1	44	-1.0	0.3	1.4	-0.2	0.2	0.1
35	49	1.0	0.2	0.3	0.5	0.4	0.1	37	-1.1	-0.6	1.3	0.1	0.2	-0.1
	47	1.2	-0.1	0.8	-0.4	0.3	-0.1	36	-1.1	0.5	1.1	-0.1	0.2	0.1
36	33	0.5	0.0	1.8	0.0	0.1	0.0	26	-0.1	-0.1	0.8	-0.1	0.0	0.0

FORZE SPINTA TERRENO SISMI: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	49	0.6	-0.2	-0.4	-0.5	0.3	-0.1	37	-1.0	0.4	1.4	-0.2	0.2	0.1
37	38	1.3	0.5	-0.2	0.3	0.2	0.2	41	-1.2	-0.2	1.0	0.1	0.2	-0.2
	35	1.2	-0.6	1.5	0.2	0.1	-0.2	39	-1.2	0.3	1.2	0.1	0.2	0.2
38	27	0.8	0.0	1.3	0.0	0.1	0.0	28	0.2	0.1	1.0	0.0	0.0	-0.1
	38	0.5	-0.5	0.1	-0.3	0.2	-0.2	41	-1.5	0.5	1.1	-0.1	0.2	0.2
39	45	1.3	0.6	-0.1	0.4	0.2	0.2	48	-1.2	-0.2	1.0	0.1	0.2	-0.2
	34	1.2	-0.7	1.6	0.3	0.1	-0.2	46	-1.2	0.3	1.2	0.1	0.2	0.2
40	31	0.8	0.0	1.4	0.0	0.1	0.0	32	0.2	0.1	1.1	0.0	0.0	-0.1
	45	0.5	-0.6	0.2	-0.4	0.2	-0.2	48	-1.5	0.4	1.1	-0.1	0.2	0.2

FORZE NEVE: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.1	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	-0.1	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	-0.1	0.0	0.0	0.0	2	0.0	0.0	0.1	0.0	0.0	0.0
3	7	0.0	0.0	-0.1	0.0	0.0	0.0	8	0.0	0.0	0.1	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.1	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	-0.1	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	-0.1	0.0	0.0	0.0	13	0.0	0.0	0.2	-0.1	0.1	0.0
	7	0.0	0.0	-0.1	0.0	0.0	0.0	11	0.0	0.0	-0.1	0.0	0.0	0.0
7	4	0.0	0.0	-0.1	0.0	0.0	0.0	14	0.0	0.0	-0.1	0.0	0.0	0.0
	5	0.0	0.0	-0.1	0.0	0.0	0.0	13	0.0	0.0	0.2	0.1	0.1	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.1	0.0	0.0	0.0	17	0.0	0.0	-0.1	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	-0.1	0.0	0.0	0.0	18	0.0	0.0	-0.1	0.0	0.0	0.0
	14	0.0	0.0	-0.1	0.0	0.0	0.0	13	0.0	0.0	0.2	0.1	0.1	0.0
11	19	0.0	0.0	-0.1	0.0	0.0	0.0	11	0.0	0.0	-0.1	0.0	0.0	0.0
	18	0.0	0.0	-0.1	0.0	0.0	0.0	13	0.0	0.0	0.2	0.1	0.1	0.0
12	19	0.0	0.0	-0.1	0.0	0.0	0.0	20	0.0	0.0	0.1	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.1	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	-0.1	0.0	0.0	0.0	22	0.0	0.0	0.1	0.0	0.0	0.0
15	17	0.0	0.0	-0.1	0.0	0.0	0.0	24	0.0	0.0	0.1	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.1	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.0	-0.2	0.0	0.0	0.0	-0.1	35	0.0	-0.3	0.0	0.0	0.0	0.1
	17	0.0	0.2	0.0	0.0	0.0	0.1	14	-0.1	0.4	0.0	0.0	0.0	-0.1
18	39	0.0	-0.2	0.0	0.0	0.0	-0.1	40	0.0	-0.3	0.0	0.0	0.0	0.1
	4	0.0	0.2	0.0	0.0	0.0	0.1	5	-0.1	0.4	0.0	0.0	0.0	-0.1
19	43	0.0	-0.2	0.0	0.0	0.0	-0.1	34	0.0	-0.3	0.0	0.0	0.0	0.1
	7	0.0	0.2	0.0	0.0	0.0	0.1	11	-0.1	0.4	0.0	0.0	0.0	-0.1
20	46	0.0	-0.2	0.0	0.0	0.0	-0.1	47	0.0	-0.3	0.0	0.0	0.0	0.1
	19	0.0	0.2	0.0	0.0	0.0	0.1	18	-0.1	0.4	0.0	0.0	0.0	-0.1
21	40	0.0	-0.3	0.0	0.0	0.0	-0.1	43	0.0	-0.2	0.0	0.0	0.0	0.1
	5	0.1	0.4	0.0	0.0	0.0	0.1	7	0.0	0.2	0.0	0.0	0.0	-0.1
22	47	0.0	-0.3	0.0	0.0	0.0	-0.1	36	0.0	-0.2	0.0	0.0	0.0	0.1
	18	0.1	0.4	0.0	0.0	0.0	0.1	17	0.0	0.2	0.0	0.0	0.0	-0.1
23	35	0.0	-0.3	0.0	0.0	0.0	-0.1	39	0.0	-0.2	0.0	0.0	0.0	0.1
	14	0.1	0.4	0.0	0.0	0.0	0.1	4	0.0	0.2	0.0	0.0	0.0	-0.1
24	34	0.0	-0.3	0.0	0.0	0.0	-0.1	46	0.0	-0.3	0.0	0.0	0.0	0.1
	11	0.1	0.4	0.0	0.0	0.0	0.1	19	0.0	0.2	0.0	0.0	0.0	-0.1
25	37	0.0	-0.3	0.0	0.0	0.0	-0.1	38	0.0	-0.3	0.0	0.0	0.0	0.1
	36	0.0	0.2	0.0	0.0	0.0	0.1	35	0.0	0.3	0.0	0.0	0.0	-0.1
26	26	0.1	-0.3	0.0	0.0	0.0	0.0	27	-0.1	-0.3	0.0	0.0	0.0	0.1
	37	0.0	0.3	0.0	0.0	0.0	0.1	38	0.0	0.3	0.0	0.0	0.0	-0.1
27	41	0.0	-0.3	0.0	0.0	0.0	-0.1	42	0.0	-0.3	0.0	0.0	0.0	0.1
	39	0.0	0.2	0.0	0.0	0.0	0.1	40	0.0	0.3	0.0	0.0	0.0	-0.1
28	28	0.1	-0.3	0.0	0.0	0.0	0.0	29	-0.1	-0.3	0.0	0.0	0.0	0.1
	41	0.0	0.3	0.0	0.0	0.0	0.1	42	0.0	0.3	0.0	0.0	0.0	-0.1
29	44	0.0	-0.3	0.0	0.0	0.0	-0.1	45	0.0	-0.3	0.0	0.0	0.0	0.1
	43	0.0	0.2	0.0	0.0	0.0	0.1	34	0.0	0.3	0.0	0.0	0.0	-0.1
30	30	0.1	-0.3	0.0	0.0	0.0	0.0	31	-0.1	-0.3	0.0	0.0	0.0	0.1
	44	0.0	0.3	0.0	0.0	0.0	0.1	45	0.0	0.3	0.0	0.0	0.0	-0.1
31	48	0.0	-0.3	0.0	0.0	0.0	-0.1	49	0.0	-0.3	0.0	0.0	0.0	0.1
	46	0.0	0.2	0.0	0.0	0.0	0.1	47	0.0	0.3	0.0	0.0	0.0	-0.1
32	32	0.1	-0.3	0.0	0.0	0.0	0.0	33	-0.1	-0.3	0.0	0.0	0.0	0.1
	48	0.0	0.3	0.0	0.0	0.0	0.1	49	0.0	0.3	0.0	0.0	0.0	-0.1
33	42	0.0	-0.3	0.0	0.0	0.0	-0.1	44	0.0	-0.3	0.0	0.0	0.0	0.1
	40	0.0	0.3	0.0	0.0	0.0	0.1	43	0.0	0.2	0.0	0.0	0.0	-0.1
34	29	0.1	-0.3	0.0	0.0	0.0	-0.1	30	-0.1	-0.3	0.0	0.0	0.0	0.0

FORZE NEVE: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	42	0.0	0.3	0.0	0.0	0.0	0.1	44	0.0	0.3	0.0	0.0	0.0	-0.1
35	49	0.0	-0.3	0.0	0.0	0.0	-0.1	37	0.0	-0.3	0.0	0.0	0.0	0.1
	47	0.0	0.3	0.0	0.0	0.0	0.1	36	0.0	0.2	0.0	0.0	0.0	-0.1
36	33	0.1	-0.3	0.0	0.0	0.0	-0.1	26	-0.1	-0.3	0.0	0.0	0.0	0.0
	49	0.0	0.3	0.0	0.0	0.0	0.1	37	0.0	0.3	0.0	0.0	0.0	-0.1
37	38	0.0	-0.3	0.0	0.0	0.0	-0.1	41	0.0	-0.3	0.0	0.0	0.0	0.1
	35	0.0	0.3	0.0	0.0	0.0	0.1	39	0.0	0.2	0.0	0.0	0.0	-0.1
38	27	0.1	-0.3	0.0	0.0	0.0	-0.1	28	-0.1	-0.3	0.0	0.0	0.0	0.0
	38	0.0	0.3	0.0	0.0	0.0	0.1	41	0.0	0.3	0.0	0.0	0.0	-0.1
39	45	0.0	-0.3	0.0	0.0	0.0	-0.1	48	0.0	-0.3	0.0	0.0	0.0	0.1
	34	0.0	0.3	0.0	0.0	0.0	0.1	46	0.0	0.3	0.0	0.0	0.0	-0.1
40	31	0.1	-0.3	0.0	0.0	0.0	-0.1	32	-0.1	-0.3	0.0	0.0	0.0	0.0
	45	0.0	0.3	0.0	0.0	0.0	0.1	48	0.0	0.3	0.0	0.0	0.0	-0.1

FORZE Corr. Tors. dir. 0: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.1	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.1	-0.1	0.0	0.0	0.0	0.0	40	0.1	0.0	0.0	0.0	0.0	0.0
	4	-0.1	0.0	0.0	0.0	0.0	0.0	5	-0.1	0.0	0.0	0.0	0.0	0.0
19	43	0.1	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.1	-0.1	0.0	0.0	0.0	0.0	47	0.1	0.0	0.0	0.0	0.0	0.0
	19	-0.1	0.0	0.0	0.0	0.0	0.0	18	-0.1	0.0	0.0	0.0	0.0	0.0
21	40	0.1	0.0	0.0	0.0	0.0	0.0	43	0.1	0.1	0.0	0.0	0.0	0.0
	5	-0.1	0.0	0.0	0.0	0.0	0.0	7	-0.1	0.0	0.0	0.0	0.0	0.0
22	47	0.1	0.0	0.0	0.0	0.0	0.0	36	0.1	0.1	0.0	0.0	0.0	0.0
	18	-0.1	0.0	0.0	0.0	0.0	0.0	17	-0.1	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.1	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.1	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.1	0.0	0.0	0.0	0.0	0.0	38	0.1	0.1	0.0	0.0	0.0	0.0
	36	-0.1	-0.1	0.0	0.0	0.0	0.0	35	-0.1	0.0	0.0	0.0	0.0	0.0
26	26	0.1	0.0	0.0	0.0	0.0	0.0	27	0.1	0.1	0.0	0.0	0.0	0.0
	37	-0.1	-0.1	0.0	0.0	0.0	0.0	38	-0.1	0.1	0.0	0.0	0.0	0.0
27	41	0.1	-0.1	0.0	0.0	0.0	0.0	42	0.1	0.0	0.0	0.0	0.0	0.0
	39	-0.1	0.0	0.0	0.0	0.0	0.0	40	-0.1	0.0	0.0	0.0	0.0	0.0
28	28	0.1	0.0	0.0	0.0	0.0	0.0	29	0.1	0.0	0.0	0.0	0.0	0.0
	41	-0.1	0.0	0.0	0.0	0.0	0.0	42	-0.1	0.0	0.0	0.0	0.0	0.0
29	44	0.1	0.0	0.0	0.0	0.0	0.0	45	0.1	0.1	0.0	0.0	0.0	0.0
	43	-0.1	-0.1	0.0	0.0	0.0	0.0	34	-0.1	0.0	0.0	0.0	0.0	0.0
30	30	0.1	0.0	0.0	0.0	0.0	0.0	31	0.1	0.1	0.0	0.0	0.0	0.0
	44	-0.1	-0.1	0.0	0.0	0.0	0.0	45	-0.1	0.1	0.0	0.0	0.0	0.0
31	48	0.1	-0.1	0.0	0.0	0.0	0.0	49	0.1	0.0	0.0	0.0	0.0	0.0
	46	-0.1	0.0	0.0	0.0	0.0	0.0	47	-0.1	0.0	0.0	0.0	0.0	0.0
32	32	0.1	0.0	0.0	0.0	0.0	0.0	33	0.1	0.0	0.0	0.0	0.0	0.0

FORZE Corr. Tors. dir. 0: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	48	-0.1	0.0	0.0	0.0	0.0	0.0	49	-0.1	0.0	0.0	0.0	0.0	0.0
33	42	0.1	0.0	0.0	0.0	0.0	0.0	44	0.1	0.1	0.0	0.0	0.0	0.0
	40	-0.1	0.0	0.0	0.0	0.0	0.0	43	-0.1	0.0	0.0	0.0	0.0	0.0
34	29	0.1	0.0	0.0	0.0	0.0	0.0	30	0.1	0.0	0.0	0.0	0.0	0.0
	42	-0.1	0.0	0.0	0.0	0.0	0.0	44	-0.1	0.0	0.0	0.0	0.0	0.0
35	49	0.1	0.0	0.0	0.0	0.0	0.0	37	0.1	0.1	0.0	0.0	0.0	0.0
	47	-0.1	0.0	0.0	0.0	0.0	0.0	36	-0.1	0.0	0.0	0.0	0.0	0.0
36	33	0.1	0.0	0.0	0.0	0.0	0.0	26	0.1	0.0	0.0	0.0	0.0	0.0
	49	-0.1	0.0	0.0	0.0	0.0	0.0	37	-0.1	0.0	0.0	0.0	0.0	0.0
37	38	0.1	-0.1	0.0	0.0	0.0	0.0	41	0.1	0.0	0.0	0.0	0.0	0.0
	35	-0.1	0.0	0.0	0.0	0.0	0.0	39	-0.1	0.1	0.0	0.0	0.0	0.0
38	27	0.1	-0.1	0.0	0.0	0.0	0.0	28	0.1	0.0	0.0	0.0	0.0	0.0
	38	-0.1	-0.1	0.0	0.0	0.0	0.0	41	-0.1	0.1	0.0	0.0	0.0	0.0
39	45	0.1	-0.1	0.0	0.0	0.0	0.0	48	0.1	0.0	0.0	0.0	0.0	0.0
	34	-0.1	0.0	0.0	0.0	0.0	0.0	46	-0.1	0.1	0.0	0.0	0.0	0.0
40	31	0.1	-0.1	0.0	0.0	0.0	0.0	32	0.1	0.0	0.0	0.0	0.0	0.0
	45	-0.1	-0.1	0.0	0.0	0.0	0.0	48	-0.1	0.1	0.0	0.0	0.0	0.0

FORZE Corr. Tors. dir. 90: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
1	3	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
	1	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0
5	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
9	16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
10	17	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
11	19	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0
12	19	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0
13	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0
14	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0
15	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0
16	16	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0
17	36	0.1	0.0	0.0	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0
18	39	0.1	-0.1	0.0	0.0	0.0	0.0	40	0.1	0.0	0.0	0.0	0.0	0.0
	4	-0.1	0.0	0.0	0.0	0.0	0.0	5	-0.1	0.0	0.0	0.0	0.0	0.0
19	43	0.1	0.0	0.0	0.0	0.0	0.0	34	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0
20	46	0.1	-0.1	0.0	0.0	0.0	0.0	47	0.1	0.0	0.0	0.0	0.0	0.0
	19	-0.1	0.0	0.0	0.0	0.0	0.0	18	-0.1	0.0	0.0	0.0	0.0	0.0
21	40	0.1	0.0	0.0	0.0	0.0	0.0	43	0.1	0.1	0.0	0.0	0.0	0.0
	5	-0.1	0.0	0.0	0.0	0.0	0.0	7	-0.1	0.0	0.0	0.0	0.0	0.0
22	47	0.1	0.0	0.0	0.0	0.0	0.0	36	0.1	0.1	0.0	0.0	0.0	0.0
	18	-0.1	0.0	0.0	0.0	0.0	0.0	17	-0.1	0.0	0.0	0.0	0.0	0.0
23	35	0.0	0.0	0.0	0.0	0.0	0.0	39	0.1	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0
24	34	0.0	0.0	0.0	0.0	0.0	0.0	46	0.1	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0
25	37	0.1	0.0	0.0	0.0	0.0	0.0	38	0.1	0.1	0.0	0.0	0.0	0.0
	36	-0.1	-0.1	0.0	0.0	0.0	0.0	35	-0.1	0.0	0.0	0.0	0.0	0.0
26	26	0.1	0.0	0.0	0.0	0.0	0.0	27	0.1	0.1	0.0	0.0	0.0	0.0
	37	-0.1	-0.1	0.0	0.0	0.0	0.0	38	-0.1	0.1	0.0	0.0	0.0	0.0
27	41	0.1	-0.1	0.0	0.0	0.0	0.0	42	0.1	0.0	0.0	0.0	0.0	0.0
	39	-0.1	0.0	0.0	0.0	0.0	0.0	40	-0.1	0.0	0.0	0.0	0.0	0.0
28	28	0.1	0.0	0.0	0.0	0.0	0.0	29	0.1	0.0	0.0	0.0	0.0	0.0
	41	-0.1	0.0	0.0	0.0	0.0	0.0	42	-0.1	0.0	0.0	0.0	0.0	0.0
29	44	0.1	0.0	0.0	0.0	0.0	0.0	45	0.1	0.1	0.0	0.0	0.0	0.0
	43	-0.1	-0.1	0.0	0.0	0.0	0.0	34	-0.1	0.0	0.0	0.0	0.0	0.0
30	30	0.1	0.0	0.0	0.0	0.0	0.0	31	0.1	0.1	0.0	0.0	0.0	0.0

FORZE Corr. Tors. dir. 90: SHELL

Shell Nro	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)	Nodo N.ro	Tx (kN)	Ty (kN)	Tz (kN)	Mx (kN*m)	My (kN*m)	Mz (kN*m)
	44	-0.1	-0.1	0.0	0.0	0.0	0.0	45	-0.1	0.1	0.0	0.0	0.0	0.0
31	48	0.1	-0.1	0.0	0.0	0.0	0.0	49	0.1	0.0	0.0	0.0	0.0	0.0
	46	-0.1	0.0	0.0	0.0	0.0	0.0	47	-0.1	0.0	0.0	0.0	0.0	0.0
32	32	0.1	0.0	0.0	0.0	0.0	0.0	33	0.1	0.0	0.0	0.0	0.0	0.0
	48	-0.1	0.0	0.0	0.0	0.0	0.0	49	-0.1	0.0	0.0	0.0	0.0	0.0
33	42	0.1	0.0	0.0	0.0	0.0	0.0	44	0.1	0.1	0.0	0.0	0.0	0.0
	40	-0.1	0.0	0.0	0.0	0.0	0.0	43	-0.1	0.0	0.0	0.0	0.0	0.0
34	29	0.1	0.0	0.0	0.0	0.0	0.0	30	0.1	0.0	0.0	0.0	0.0	0.0
	42	-0.1	0.0	0.0	0.0	0.0	0.0	44	-0.1	0.0	0.0	0.0	0.0	0.0
35	49	0.1	0.0	0.0	0.0	0.0	0.0	37	0.1	0.1	0.0	0.0	0.0	0.0
	47	-0.1	0.0	0.0	0.0	0.0	0.0	36	-0.1	0.0	0.0	0.0	0.0	0.0
36	33	0.1	0.0	0.0	0.0	0.0	0.0	26	0.1	0.0	0.0	0.0	0.0	0.0
	49	-0.1	0.0	0.0	0.0	0.0	0.0	37	-0.1	0.0	0.0	0.0	0.0	0.0
37	38	0.1	-0.1	0.0	0.0	0.0	0.0	41	0.1	0.0	0.0	0.0	0.0	0.0
	35	-0.1	0.0	0.0	0.0	0.0	0.0	39	-0.1	0.1	0.0	0.0	0.0	0.0
38	27	0.1	-0.1	0.0	0.0	0.0	0.0	28	0.1	0.0	0.0	0.0	0.0	0.0
	38	-0.1	-0.1	0.0	0.0	0.0	0.0	41	-0.1	0.1	0.0	0.0	0.0	0.0
39	45	0.1	-0.1	0.0	0.0	0.0	0.0	48	0.1	0.0	0.0	0.0	0.0	0.0
	34	-0.1	0.0	0.0	0.0	0.0	0.0	46	-0.1	0.1	0.0	0.0	0.0	0.0
40	31	0.1	-0.1	0.0	0.0	0.0	0.0	32	0.1	0.0	0.0	0.0	0.0	0.0
	45	-0.1	-0.1	0.0	0.0	0.0	0.0	48	-0.1	0.1	0.0	0.0	0.0	0.0

SPOST. PESO PROPRIO: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
1	3	0.00	0.00	-0.29	0.00000	0.00000	0.00000	4	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	1	0.00	0.00	-0.29	0.00000	0.00000	0.00000	2	0.00	0.00	-0.29	0.00000	0.00000	0.00000
2	5	0.00	0.00	-0.28	0.00000	0.00001	0.00000	6	0.00	0.00	-0.28	0.00000	0.00001	0.00000
	4	0.00	0.00	-0.29	0.00000	0.00000	0.00000	2	0.00	0.00	-0.29	0.00000	0.00000	0.00000
3	7	0.00	0.00	-0.29	0.00000	0.00000	0.00000	8	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	5	0.00	0.00	-0.28	0.00000	0.00001	0.00000	6	0.00	0.00	-0.28	0.00000	0.00001	0.00000
4	9	0.00	0.00	-0.29	0.00000	0.00000	0.00000	10	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	7	0.00	0.00	-0.29	0.00000	0.00000	0.00000	8	0.00	0.00	-0.29	0.00000	0.00000	0.00000
5	11	0.00	0.00	-0.28	0.00000	0.00001	0.00000	12	0.00	0.00	-0.28	0.00000	0.00001	0.00000
	7	0.00	0.00	-0.29	0.00000	0.00000	0.00000	9	0.00	0.00	-0.29	0.00000	0.00000	0.00000
6	5	0.00	0.00	-0.28	0.00000	-.00001	0.00000	13	0.00	0.00	-0.26	0.00000	0.00000	0.00000
	7	0.00	0.00	-0.29	0.00000	0.00000	0.00000	11	0.00	0.00	-0.28	0.00001	0.00000	0.00000
7	4	0.00	0.00	-0.29	0.00000	0.00000	0.00000	14	0.00	0.00	-0.28	-.00001	0.00000	0.00000
	5	0.00	0.00	-0.28	0.00000	-.00001	0.00000	13	0.00	0.00	-0.26	0.00000	0.00000	0.00000
8	3	0.00	0.00	-0.29	0.00000	0.00000	0.00000	15	0.00	0.00	-0.28	-.00001	0.00000	0.00000
	4	0.00	0.00	-0.29	0.00000	0.00000	0.00000	14	0.00	0.00	-0.28	-.00001	0.00000	0.00000
9	16	0.00	0.00	-0.29	0.00000	0.00000	0.00000	17	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	15	0.00	0.00	-0.28	0.00000	-.00001	0.00000	14	0.00	0.00	-0.28	0.00000	-.00001	0.00000
10	17	0.00	0.00	-0.29	0.00000	0.00000	0.00000	18	0.00	0.00	-0.28	-.00001	0.00000	0.00000
	14	0.00	0.00	-0.28	0.00000	-.00001	0.00000	13	0.00	0.00	-0.26	0.00000	0.00000	0.00000
11	19	0.00	0.00	-0.29	0.00000	0.00000	0.00000	11	0.00	0.00	-0.28	-.00001	0.00000	0.00000
	18	0.00	0.00	-0.28	0.00000	-.00001	0.00000	13	0.00	0.00	-0.26	0.00000	0.00000	0.00000
12	19	0.00	0.00	-0.29	0.00000	0.00000	0.00000	20	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	11	0.00	0.00	-0.28	0.00000	0.00001	0.00000	12	0.00	0.00	-0.28	0.00000	0.00001	0.00000
13	19	0.00	0.00	-0.29	0.00000	0.00000	0.00000	22	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	20	0.00	0.00	-0.29	0.00000	0.00000	0.00000	21	0.00	0.00	-0.29	0.00000	0.00000	0.00000
14	18	0.00	0.00	-0.28	0.00000	0.00001	0.00000	23	0.00	0.00	-0.28	0.00000	0.00001	0.00000
	19	0.00	0.00	-0.29	0.00000	0.00000	0.00000	22	0.00	0.00	-0.29	0.00000	0.00000	0.00000
15	17	0.00	0.00	-0.29	0.00000	0.00000	0.00000	24	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	18	0.00	0.00	-0.28	0.00000	0.00001	0.00000	23	0.00	0.00	-0.28	0.00000	0.00001	0.00000
16	16	0.00	0.00	-0.29	0.00000	0.00000	0.00000	25	0.00	0.00	-0.29	0.00000	0.00000	0.00000
	17	0.00	0.00	-0.29	0.00000	0.00000	0.00000	24	0.00	0.00	-0.29	0.00000	0.00000	0.00000
17	36	0.00	-0.29	0.00	0.00000	0.00000	0.00000	35	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	17	0.00	-0.29	0.00	0.00000	0.00000	0.00000	14	0.00	-0.28	0.00	0.00001	0.00000	0.00000
18	39	0.00	-0.29	0.00	0.00000	0.00000	0.00000	40	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	4	0.00	-0.29	0.00	0.00000	0.00000	0.00000	5	0.00	-0.28	0.00	0.00001	0.00000	0.00000
19	43	0.00	-0.29	0.00	0.00000	0.00000	0.00000	34	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	7	0.00	-0.29	0.00	0.00000	0.00000	0.00000	11	0.00	-0.28	0.00	0.00001	0.00000	0.00000
20	46	0.00	-0.29	0.00	0.00000	0.00000	0.00000	47	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	19	0.00	-0.29	0.00	0.00000	0.00000	0.00000	18	0.00	-0.28	0.00	0.00001	0.00000	0.00000
21	40	0.00	-0.29	0.00	0.00000	0.00000	0.00000	43	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	5	0.00	-0.28	0.00	0.00001	0.00000	0.00000	7	0.00	-0.29	0.00	0.00000	0.00000	0.00000
22	47	0.00	-0.29	0.00	0.00000	0.00000	0.00000	36	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	18	0.00	-0.28	0.00	0.00001	0.00000	0.00000	17	0.00	-0.29	0.00	0.00000	0.00000	0.00000
23	35	0.00	-0.29	0.00	0.00000	0.00000	0.00000	39	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	14	0.00	-0.28	0.00	0.00001	0.00000	0.00000	4	0.00	-0.29	0.00	0.00000	0.00000	0.00000
24	34	0.00	-0.29	0.00	0.00000	0.00000	0.00000	46	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	11	0.00	-0.28	0.00	0.00001	0.00000	0.00000	19	0.00	-0.29	0.00	0.00000	0.00000	0.00000
25	37	0.00	-0.29	0.00	0.00000	0.00000	0.00000	38	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	36	0.00	-0.29	0.00	0.00000	0.00000	0.00000	35	0.00	-0.29	0.00	0.00000	0.00000	0.00000
26	26	0.00	-0.29	0.00	0.00000	0.00000	0.00000	27	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	37	0.00	-0.29	0.00	0.00000	0.00000	0.00000	38	0.00	-0.29	0.00	0.00000	0.00000	0.00000
27	41	0.00	-0.29	0.00	0.00000	0.00000	0.00000	42	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	39	0.00	-0.29	0.00	0.00000	0.00000	0.00000	40	0.00	-0.29	0.00	0.00000	0.00000	0.00000
28	28	0.00	-0.29	0.00	0.00000	0.00000	0.00000	29	0.00	-0.29	0.00	0.00000	0.00000	0.00000

SPOST. PESO PROPRIO: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
	41	0.00	-0.29	0.00	0.00000	0.00000	0.00000	42	0.00	-0.29	0.00	0.00000	0.00000	0.00000
29	44	0.00	-0.29	0.00	0.00000	0.00000	0.00000	45	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	43	0.00	-0.29	0.00	0.00000	0.00000	0.00000	34	0.00	-0.29	0.00	0.00000	0.00000	0.00000
30	30	0.00	-0.29	0.00	0.00000	0.00000	0.00000	31	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	44	0.00	-0.29	0.00	0.00000	0.00000	0.00000	45	0.00	-0.29	0.00	0.00000	0.00000	0.00000
31	48	0.00	-0.29	0.00	0.00000	0.00000	0.00000	49	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	46	0.00	-0.29	0.00	0.00000	0.00000	0.00000	47	0.00	-0.29	0.00	0.00000	0.00000	0.00000
32	32	0.00	-0.29	0.00	0.00000	0.00000	0.00000	33	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	48	0.00	-0.29	0.00	0.00000	0.00000	0.00000	49	0.00	-0.29	0.00	0.00000	0.00000	0.00000
33	42	0.00	-0.29	0.00	0.00000	0.00000	0.00000	44	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	40	0.00	-0.29	0.00	0.00000	0.00000	0.00000	43	0.00	-0.29	0.00	0.00000	0.00000	0.00000
34	29	0.00	-0.29	0.00	0.00000	0.00000	0.00000	30	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	42	0.00	-0.29	0.00	0.00000	0.00000	0.00000	44	0.00	-0.29	0.00	0.00000	0.00000	0.00000
35	49	0.00	-0.29	0.00	0.00000	0.00000	0.00000	37	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	47	0.00	-0.29	0.00	0.00000	0.00000	0.00000	36	0.00	-0.29	0.00	0.00000	0.00000	0.00000
36	33	0.00	-0.29	0.00	0.00000	0.00000	0.00000	26	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	49	0.00	-0.29	0.00	0.00000	0.00000	0.00000	37	0.00	-0.29	0.00	0.00000	0.00000	0.00000
37	38	0.00	-0.29	0.00	0.00000	0.00000	0.00000	41	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	35	0.00	-0.29	0.00	0.00000	0.00000	0.00000	39	0.00	-0.29	0.00	0.00000	0.00000	0.00000
38	27	0.00	-0.29	0.00	0.00000	0.00000	0.00000	28	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	38	0.00	-0.29	0.00	0.00000	0.00000	0.00000	41	0.00	-0.29	0.00	0.00000	0.00000	0.00000
39	45	0.00	-0.29	0.00	0.00000	0.00000	0.00000	48	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	34	0.00	-0.29	0.00	0.00000	0.00000	0.00000	46	0.00	-0.29	0.00	0.00000	0.00000	0.00000
40	31	0.00	-0.29	0.00	0.00000	0.00000	0.00000	32	0.00	-0.29	0.00	0.00000	0.00000	0.00000
	45	0.00	-0.29	0.00	0.00000	0.00000	0.00000	48	0.00	-0.29	0.00	0.00000	0.00000	0.00000

SPOST. SOVRACCARICO PERMAN.: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
1	3	0.00	0.00	-0.01	0.00000	0.00000	0.00000	4	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	1	0.00	0.00	-0.01	0.00000	0.00000	0.00000	2	0.00	0.00	-0.01	0.00000	0.00000	0.00000
2	5	0.00	0.00	-0.01	0.00000	0.00000	0.00000	6	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	4	0.00	0.00	-0.01	0.00000	0.00000	0.00000	2	0.00	0.00	-0.01	0.00000	0.00000	0.00000
3	7	0.00	0.00	-0.01	0.00000	0.00000	0.00000	8	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	5	0.00	0.00	-0.01	0.00000	0.00000	0.00000	6	0.00	0.00	-0.01	0.00000	0.00000	0.00000
4	9	0.00	0.00	-0.01	0.00000	0.00000	0.00000	10	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	7	0.00	0.00	-0.01	0.00000	0.00000	0.00000	8	0.00	0.00	-0.01	0.00000	0.00000	0.00000
5	11	0.00	0.00	-0.01	0.00000	0.00000	0.00000	12	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	7	0.00	0.00	-0.01	0.00000	0.00000	0.00000	9	0.00	0.00	-0.01	0.00000	0.00000	0.00000
6	5	0.00	0.00	-0.01	0.00000	0.00000	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	7	0.00	0.00	-0.01	0.00000	0.00000	0.00000	11	0.00	0.00	-0.01	0.00000	0.00000	0.00000
7	4	0.00	0.00	-0.01	0.00000	0.00000	0.00000	14	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	5	0.00	0.00	-0.01	0.00000	0.00000	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
8	3	0.00	0.00	-0.01	0.00000	0.00000	0.00000	15	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	4	0.00	0.00	-0.01	0.00000	0.00000	0.00000	14	0.00	0.00	-0.01	0.00000	0.00000	0.00000
9	16	0.00	0.00	-0.01	0.00000	0.00000	0.00000	17	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	15	0.00	0.00	-0.01	0.00000	0.00000	0.00000	14	0.00	0.00	-0.01	0.00000	0.00000	0.00000
10	17	0.00	0.00	-0.01	0.00000	0.00000	0.00000	18	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	14	0.00	0.00	-0.01	0.00000	0.00000	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
11	19	0.00	0.00	-0.01	0.00000	0.00000	0.00000	11	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	18	0.00	0.00	-0.01	0.00000	0.00000	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
12	19	0.00	0.00	-0.01	0.00000	0.00000	0.00000	20	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	11	0.00	0.00	-0.01	0.00000	0.00000	0.00000	12	0.00	0.00	-0.01	0.00000	0.00000	0.00000
13	19	0.00	0.00	-0.01	0.00000	0.00000	0.00000	22	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	20	0.00	0.00	-0.01	0.00000	0.00000	0.00000	21	0.00	0.00	-0.01	0.00000	0.00000	0.00000
14	18	0.00	0.00	-0.01	0.00000	0.00000	0.00000	23	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	19	0.00	0.00	-0.01	0.00000	0.00000	0.00000	22	0.00	0.00	-0.01	0.00000	0.00000	0.00000
15	17	0.00	0.00	-0.01	0.00000	0.00000	0.00000	24	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	18	0.00	0.00	-0.01	0.00000	0.00000	0.00000	23	0.00	0.00	-0.01	0.00000	0.00000	0.00000
16	16	0.00	0.00	-0.01	0.00000	0.00000	0.00000	25	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	17	0.00	0.00	-0.01	0.00000	0.00000	0.00000	24	0.00	0.00	-0.01	0.00000	0.00000	0.00000
17	36	0.00	-0.01	0.00	0.00000	0.00000	0.00000	35	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	17	0.00	-0.01	0.00	0.00000	0.00000	0.00000	14	0.00	-0.01	0.00	0.00000	0.00000	0.00000
18	39	0.00	-0.01	0.00	0.00000	0.00000	0.00000	40	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	4	0.00	-0.01	0.00	0.00000	0.00000	0.00000	5	0.00	-0.01	0.00	0.00000	0.00000	0.00000
19	43	0.00	-0.01	0.00	0.00000	0.00000	0.00000	34	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	7	0.00	-0.01	0.00	0.00000	0.00000	0.00000	11	0.00	-0.01	0.00	0.00000	0.00000	0.00000
20	46	0.00	-0.01	0.00	0.00000	0.00000	0.00000	47	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	19	0.00	-0.01	0.00	0.00000	0.00000	0.00000	18	0.00	-0.01	0.00	0.00000	0.00000	0.00000
21	40	0.00	-0.01	0.00	0.00000	0.00000	0.00000	43	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	5	0.00	-0.01	0.00	0.00000	0.00000	0.00000	7	0.00	-0.01	0.00	0.00000	0.00000	0.00000
22	47	0.00	-0.01	0.00	0.00000	0.00000	0.00000	36	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	18	0.00	-0.01	0.00	0.00000	0.00000	0.00000	17	0.00	-0.01	0.00	0.00000	0.00000	0.00000
23	35	0.00	-0.01	0.00	0.00000	0.00000	0.00000	39	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	14	0.00	-0.01	0.00	0.00000	0.00000	0.00000	4	0.00	-0.01	0.00	0.00000	0.00000	0.00000
24	34	0.00	-0.01	0.00	0.00000	0.00000	0.00000	46	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	11	0.00	-0.01	0.00	0.00000	0.00000	0.00000	19	0.00	-0.01	0.00	0.00000	0.00000	0.00000
25	37	0.00	-0.01	0.00	0.00000	0.00000	0.00000	38	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	36	0.00	-0.01	0.00	0.00000	0.00000	0.00000	35	0.00	-0.01	0.00	0.00000	0.00000	0.00000
26	26	0.00	-0.01	0.00	0.00000	0.00000	0.00000	27	0.00	-0.01	0.00	0.00000	0.00000	0.00000

SPOST. SOVRACCARICO PERMAN.: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
	37	0.00	-0.01	0.00	0.00000	0.00000	0.00000	38	0.00	-0.01	0.00	0.00000	0.00000	0.00000
27	41	0.00	-0.01	0.00	0.00000	0.00000	0.00000	42	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	39	0.00	-0.01	0.00	0.00000	0.00000	0.00000	40	0.00	-0.01	0.00	0.00000	0.00000	0.00000
28	28	0.00	-0.01	0.00	0.00000	0.00000	0.00000	29	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	41	0.00	-0.01	0.00	0.00000	0.00000	0.00000	42	0.00	-0.01	0.00	0.00000	0.00000	0.00000
29	44	0.00	-0.01	0.00	0.00000	0.00000	0.00000	45	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	43	0.00	-0.01	0.00	0.00000	0.00000	0.00000	34	0.00	-0.01	0.00	0.00000	0.00000	0.00000
30	30	0.00	-0.01	0.00	0.00000	0.00000	0.00000	31	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	44	0.00	-0.01	0.00	0.00000	0.00000	0.00000	45	0.00	-0.01	0.00	0.00000	0.00000	0.00000
31	48	0.00	-0.01	0.00	0.00000	0.00000	0.00000	49	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	46	0.00	-0.01	0.00	0.00000	0.00000	0.00000	47	0.00	-0.01	0.00	0.00000	0.00000	0.00000
32	32	0.00	-0.01	0.00	0.00000	0.00000	0.00000	33	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	48	0.00	-0.01	0.00	0.00000	0.00000	0.00000	49	0.00	-0.01	0.00	0.00000	0.00000	0.00000
33	42	0.00	-0.01	0.00	0.00000	0.00000	0.00000	44	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	40	0.00	-0.01	0.00	0.00000	0.00000	0.00000	43	0.00	-0.01	0.00	0.00000	0.00000	0.00000
34	29	0.00	-0.01	0.00	0.00000	0.00000	0.00000	30	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	42	0.00	-0.01	0.00	0.00000	0.00000	0.00000	44	0.00	-0.01	0.00	0.00000	0.00000	0.00000
35	49	0.00	-0.01	0.00	0.00000	0.00000	0.00000	37	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	47	0.00	-0.01	0.00	0.00000	0.00000	0.00000	36	0.00	-0.01	0.00	0.00000	0.00000	0.00000
36	33	0.00	-0.01	0.00	0.00000	0.00000	0.00000	26	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	49	0.00	-0.01	0.00	0.00000	0.00000	0.00000	37	0.00	-0.01	0.00	0.00000	0.00000	0.00000
37	38	0.00	-0.01	0.00	0.00000	0.00000	0.00000	41	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	35	0.00	-0.01	0.00	0.00000	0.00000	0.00000	39	0.00	-0.01	0.00	0.00000	0.00000	0.00000
38	27	0.00	-0.01	0.00	0.00000	0.00000	0.00000	28	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	38	0.00	-0.01	0.00	0.00000	0.00000	0.00000	41	0.00	-0.01	0.00	0.00000	0.00000	0.00000
39	45	0.00	-0.01	0.00	0.00000	0.00000	0.00000	48	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	34	0.00	-0.01	0.00	0.00000	0.00000	0.00000	46	0.00	-0.01	0.00	0.00000	0.00000	0.00000
40	31	0.00	-0.01	0.00	0.00000	0.00000	0.00000	32	0.00	-0.01	0.00	0.00000	0.00000	0.00000
	45	0.00	-0.01	0.00	0.00000	0.00000	0.00000	48	0.00	-0.01	0.00	0.00000	0.00000	0.00000

SPOST. SPINTA TERR STATICA: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
1	3	0.00	0.00	0.00	-.00001	0.00000	0.00000	4	0.00	0.00	0.00	-.00001	0.00000	0.00000
	1	0.00	0.00	0.01	-.00001	0.00000	0.00000	2	0.00	0.00	0.01	-.00001	0.00000	0.00000
2	5	0.00	0.00	0.00	0.00000	-.00002	0.00000	6	0.00	0.00	0.00	0.00000	-.00002	0.00000
	4	0.00	0.00	0.00	0.00000	-.00001	0.00000	2	0.00	0.00	0.01	0.00000	-.00001	0.00000
3	7	0.00	0.00	0.00	0.00000	-.00001	0.00000	8	0.00	0.00	0.00	0.00000	-.00001	0.00000
	5	0.00	0.00	0.00	0.00000	-.00002	0.00000	6	0.00	0.00	0.00	0.00000	-.00002	0.00000
4	9	0.00	0.00	0.00	0.00000	-.00001	0.00000	10	0.00	0.00	0.00	0.00000	-.00001	0.00000
	7	0.00	0.00	0.00	0.00000	-.00001	0.00000	8	0.00	0.00	0.00	0.00000	-.00001	0.00000
5	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	-.00001	0.00000	0.00000	9	0.00	0.00	0.00	-.00001	0.00000	0.00000
6	5	0.00	0.00	0.00	0.00000	0.00002	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00001	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
7	4	0.00	0.00	0.00	0.00000	0.00001	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00002	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
8	3	0.00	0.00	0.00	0.00000	0.00001	0.00000	15	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00001	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
9	16	0.00	0.00	0.01	0.00001	0.00000	0.00000	17	0.00	0.00	0.00	0.00001	0.00000	0.00000
	15	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
10	17	0.00	0.00	0.00	0.00001	0.00000	0.00000	18	0.00	0.00	0.00	0.00003	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
11	19	0.00	0.00	0.00	0.00000	0.00001	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00003	0.00000	13	0.00	0.00	-0.01	0.00000	0.00000	0.00000
12	19	0.00	0.00	0.00	0.00001	0.00000	0.00000	20	0.00	0.00	0.00	0.00001	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
13	19	0.00	0.00	0.00	0.00000	-.00001	0.00000	22	0.00	0.00	0.01	0.00000	-.00001	0.00000
	20	0.00	0.00	0.00	0.00000	-.00001	0.00000	21	0.00	0.00	0.01	0.00000	-.00001	0.00000
14	18	0.00	0.00	0.00	0.00000	-.00003	0.00000	23	0.00	0.00	0.01	0.00000	-.00002	0.00000
	19	0.00	0.00	0.00	0.00000	-.00001	0.00000	22	0.00	0.00	0.01	0.00000	-.00001	0.00000
15	17	0.00	0.00	0.00	0.00000	-.00001	0.00000	24	0.00	0.00	0.01	0.00000	-.00001	0.00000
	18	0.00	0.00	0.00	0.00000	-.00003	0.00000	23	0.00	0.00	0.01	0.00000	-.00002	0.00000
16	16	0.00	0.00	0.01	0.00000	-.00001	0.00000	25	0.00	0.00	0.01	0.00000	-.00001	0.00000
	17	0.00	0.00	0.00	0.00000	-.00001	0.00000	24	0.00	0.00	0.01	0.00000	-.00001	0.00000
17	36	0.00	0.00	0.00	0.00000	-.00003	0.00000	35	0.00	0.00	0.00	-.00002	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	-.00001	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
18	39	0.00	0.00	0.00	0.00000	0.00003	0.00000	40	0.00	0.00	-0.07	-.00007	0.00000	0.00000
	4	0.00	0.00	0.00	-.00001	0.00000	0.00000	5	0.00	0.00	0.00	-.00002	0.00000	0.00000
19	43	0.00	0.00	0.00	0.00000	-.00003	0.00000	34	0.00	0.00	0.00	-.00002	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	-.00001	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
20	46	0.00	0.00	0.00	0.00000	0.00003	0.00000	47	0.00	0.00	-0.07	-.00007	0.00000	0.00000
	19	0.00	0.00	0.00	-.00001	0.00000	0.00000	18	0.00	0.00	0.00	-.00003	0.00000	0.00000
21	40	0.00	0.00	-0.07	-.00007	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	-.00003	0.00000
	5	0.00	0.00	0.00	-.00002	0.00000	0.00000	7	0.00	0.00	0.00	-.00001	0.00000	0.00000
22	47	0.00	0.00	-0.07	-.00007	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	-.00003	0.00000
	18	0.00	0.00	0.00	-.00003	0.00000	0.00000	17	0.00	0.00	0.00	-.00001	0.00000	0.00000
23	35	0.00	0.00	0.00	-.00002	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00003	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00001
24	34	0.00	0.00	0.00	-.00002	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00003	0.00000

SPOST. SPINTA TERR STATICA: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	19	0.00	0.00	0.00	0.00000	0.00000	0.00001
25	37	0.00	0.00	0.00	0.00000	-.00003	0.00000	38	0.00	0.00	-0.02	0.00000	0.00000	0.00000
	36	0.00	0.00	0.00	0.00000	-.00003	0.00000	35	0.00	0.00	0.00	-.00002	0.00000	0.00000
26	26	0.00	0.00	0.00	0.00000	0.00000	0.00000	27	0.00	0.00	0.00	0.00003	0.00000	0.00000
	37	0.00	0.00	0.00	0.00000	-.00003	0.00000	38	0.00	0.00	-0.02	0.00000	0.00000	0.00000
27	41	0.00	0.00	0.00	0.00000	0.00003	0.00000	42	0.00	0.00	-0.07	0.00005	0.00000	0.00000
	39	0.00	0.00	0.00	0.00000	0.00003	0.00000	40	0.00	0.00	-0.07	-.00007	0.00000	0.00000
28	28	0.00	0.00	0.00	0.00000	0.00000	0.00000	29	0.00	0.00	0.00	0.00010	0.00000	0.00000
	41	0.00	0.00	0.00	0.00000	0.00003	0.00000	42	0.00	0.00	-0.07	0.00005	0.00000	0.00000
29	44	0.00	0.00	0.00	0.00000	-.00002	0.00000	45	0.00	0.00	-0.02	0.00000	0.00000	0.00000
	43	0.00	0.00	0.00	0.00000	-.00003	0.00000	34	0.00	0.00	0.00	-.00002	0.00000	0.00000
30	30	0.00	0.00	0.00	0.00000	0.00000	0.00000	31	0.00	0.00	0.00	0.00004	0.00000	0.00000
	44	0.00	0.00	0.00	0.00000	-.00002	0.00000	45	0.00	0.00	-0.02	0.00000	0.00000	0.00000
31	48	0.00	0.00	0.00	0.00000	0.00002	0.00000	49	0.00	0.00	-0.08	0.00005	0.00000	0.00000
	46	0.00	0.00	0.00	0.00000	0.00003	0.00000	47	0.00	0.00	-0.07	-.00007	0.00000	0.00000
32	32	0.00	0.00	0.00	0.00000	0.00000	0.00000	33	0.00	0.00	0.00	0.00010	0.00000	0.00000
	48	0.00	0.00	0.00	0.00000	0.00002	0.00000	49	0.00	0.00	-0.08	0.00005	0.00000	0.00000
33	42	0.00	0.00	-0.07	0.00005	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	-.00002	0.00000
	40	0.00	0.00	-0.07	-.00007	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	-.00003	0.00000
34	29	0.00	0.00	0.00	0.00010	0.00000	0.00000	30	0.00	0.00	0.00	0.00000	0.00000	0.00000
	42	0.00	0.00	-0.07	0.00005	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	-.00002	0.00000
35	49	0.00	0.00	-0.08	0.00005	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	-.00003	0.00000
	47	0.00	0.00	-0.07	-.00007	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	-.00003	0.00000
36	33	0.00	0.00	0.00	0.00010	0.00000	0.00000	26	0.00	0.00	0.00	0.00000	0.00000	0.00000
	49	0.00	0.00	-0.08	0.00005	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	-.00003	0.00000
37	38	0.00	0.00	-0.02	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00003	0.00000
	35	0.00	0.00	0.00	-.00002	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00003	0.00000
38	27	0.00	0.00	0.00	0.00003	0.00000	0.00000	28	0.00	0.00	0.00	0.00000	0.00000	0.00000
	38	0.00	0.00	-0.02	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00003	0.00000
39	45	0.00	0.00	-0.02	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00002	0.00000
	34	0.00	0.00	0.00	-.00002	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00003	0.00000
40	31	0.00	0.00	0.00	0.00004	0.00000	0.00000	32	0.00	0.00	0.00	0.00000	0.00000	0.00000
	45	0.00	0.00	-0.02	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00002	0.00000

SPOST. SPINTA TERRENO SISMI: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
1	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
	1	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
2	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
3	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
4	9	0.00	0.00	0.00	0.00000	0.00000	0.00000	10	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
5	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	9	0.00	0.00	0.00	0.00000	0.00000	0.00000
6	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
7	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
8	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	15	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
9	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
	15	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
10	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
11	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
12	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	20	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
13	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
	20	0.00	0.00	0.00	0.00000	0.00000	0.00000	21	0.00	0.00	0.00	0.00000	0.00000	0.00000
14	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
15	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
16	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	25	0.00	0.00	0.00	0.00000	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
17	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
18	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	-0.01	-.00001	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	5	0.00	0.00	0.00	0.00000	0.00000	0.00000
19	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
20	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	-0.01	-.00001	0.00000	0.00000
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
21	40	0.00	0.00	-0.01	-.00001	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	7	0.00	0.00	0.00	0.00000	0.00000	0.00000
22	47	0.00	0.00	-0.01	-.00001	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000

SPOST. SPINTA TERRENO SISMI: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
23	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
24	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	19	0.00	0.00	0.00	0.00000	0.00000	0.00000
25	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
26	26	0.00	0.00	0.00	0.00000	0.00000	0.00000	27	0.00	0.00	0.00	0.00000	0.00000	0.00000
	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
27	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	-0.01	0.00001	0.00000	0.00000
	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	-0.01	-.00001	0.00000	0.00000
28	28	0.00	0.00	0.00	0.00000	0.00000	0.00000	29	0.00	0.00	0.00	0.00001	0.00000	0.00000
	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	-0.01	0.00001	0.00000	0.00000
29	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
30	30	0.00	0.00	0.00	0.00000	0.00000	0.00000	31	0.00	0.00	0.00	0.00001	0.00000	0.00000
	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
31	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	-0.01	0.00001	0.00000	0.00000
	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	-0.01	-.00001	0.00000	0.00000
32	32	0.00	0.00	0.00	0.00000	0.00000	0.00000	33	0.00	0.00	0.00	0.00001	0.00000	0.00000
	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	-0.01	0.00001	0.00000	0.00000
33	42	0.00	0.00	-0.01	0.00001	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
	40	0.00	0.00	-0.01	-.00001	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
34	29	0.00	0.00	0.00	0.00001	0.00000	0.00000	30	0.00	0.00	0.00	0.00000	0.00000	0.00000
	42	0.00	0.00	-0.01	0.00001	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
35	49	0.00	0.00	-0.01	0.00001	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
	47	0.00	0.00	-0.01	-.00001	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000
36	33	0.00	0.00	0.00	0.00001	0.00000	0.00000	26	0.00	0.00	0.00	0.00000	0.00000	0.00000
	49	0.00	0.00	-0.01	0.00001	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
37	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
38	27	0.00	0.00	0.00	0.00000	0.00000	0.00000	28	0.00	0.00	0.00	0.00000	0.00000	0.00000
	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
39	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000
	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
40	31	0.00	0.00	0.00	0.00001	0.00000	0.00000	32	0.00	0.00	0.00	0.00000	0.00000	0.00000
	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000

SPOST. NEVE: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
1	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
	1	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
2	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
3	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
4	9	0.00	0.00	0.00	0.00000	0.00000	0.00000	10	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
5	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	9	0.00	0.00	0.00	0.00000	0.00000	0.00000
6	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
7	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
8	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	15	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
9	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
	15	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
10	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
11	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
12	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	20	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
13	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
	20	0.00	0.00	0.00	0.00000	0.00000	0.00000	21	0.00	0.00	0.00	0.00000	0.00000	0.00000
14	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
15	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
16	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	25	0.00	0.00	0.00	0.00000	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
17	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
18	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	5	0.00	0.00	0.00	0.00000	0.00000	0.00000
19	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
20	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	0.00	0.00000	0.00000	0.00000

SPOST. NEVE: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
21	40	0.00	0.00	0.00	0.00000	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	7	0.00	0.00	0.00	0.00000	0.00000	0.00000
22	47	0.00	0.00	0.00	0.00000	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
23	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
24	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	19	0.00	0.00	0.00	0.00000	0.00000	0.00000
25	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
26	26	0.00	0.00	0.00	0.00000	0.00000	0.00000	27	0.00	0.00	0.00	0.00000	0.00000	0.00000
	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
27	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	0.00	0.00000	0.00000	0.00000
	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	0.00	0.00000	0.00000	0.00000
28	28	0.00	0.00	0.00	0.00000	0.00000	0.00000	29	0.00	0.00	0.00	0.00000	0.00000	0.00000
	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	0.00	0.00000	0.00000	0.00000
29	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
30	30	0.00	0.00	0.00	0.00000	0.00000	0.00000	31	0.00	0.00	0.00	0.00000	0.00000	0.00000
	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
31	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	0.00	0.00000	0.00000	0.00000
	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	0.00	0.00000	0.00000	0.00000
32	32	0.00	0.00	0.00	0.00000	0.00000	0.00000	33	0.00	0.00	0.00	0.00000	0.00000	0.00000
	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	0.00	0.00000	0.00000	0.00000
33	42	0.00	0.00	0.00	0.00000	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
	40	0.00	0.00	0.00	0.00000	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
34	29	0.00	0.00	0.00	0.00000	0.00000	0.00000	30	0.00	0.00	0.00	0.00000	0.00000	0.00000
	42	0.00	0.00	0.00	0.00000	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
35	49	0.00	0.00	0.00	0.00000	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
	47	0.00	0.00	0.00	0.00000	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000
36	33	0.00	0.00	0.00	0.00000	0.00000	0.00000	26	0.00	0.00	0.00	0.00000	0.00000	0.00000
	49	0.00	0.00	0.00	0.00000	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
37	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
38	27	0.00	0.00	0.00	0.00000	0.00000	0.00000	28	0.00	0.00	0.00	0.00000	0.00000	0.00000
	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
39	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000
	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
40	31	0.00	0.00	0.00	0.00000	0.00000	0.00000	32	0.00	0.00	0.00	0.00000	0.00000	0.00000
	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000

SPOST. Corr. Tors. dir. 0: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
1	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
	1	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
2	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
3	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
4	9	0.00	0.00	0.00	0.00000	0.00000	0.00000	10	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
5	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	9	0.00	0.00	0.00	0.00000	0.00000	0.00000
6	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
7	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
8	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	15	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
9	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
	15	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
10	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
11	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
12	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	20	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
13	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
	20	0.00	0.00	0.00	0.00000	0.00000	0.00000	21	0.00	0.00	0.00	0.00000	0.00000	0.00000
14	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
15	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
16	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	25	0.00	0.00	0.00	0.00000	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
17	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
18	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	0.00	0.00000	0.00000	0.00000

SPOST. Corr. Tors. dir. 0: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	5	0.00	0.00	0.00	0.00000	0.00000	0.00000
19	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
20	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	0.00	0.00000	0.00000	0.00000
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
21	40	0.00	0.00	0.00	0.00000	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	7	0.00	0.00	0.00	0.00000	0.00000	0.00000
22	47	0.00	0.00	0.00	0.00000	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
23	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
24	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	19	0.00	0.00	0.00	0.00000	0.00000	0.00000
25	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
26	26	0.00	0.00	0.00	0.00000	0.00000	0.00000	27	0.00	0.00	0.00	0.00000	0.00000	0.00000
	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
27	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	0.00	0.00000	0.00000	0.00000
	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	0.00	0.00000	0.00000	0.00000
28	28	0.00	0.00	0.00	0.00000	0.00000	0.00000	29	0.00	0.00	0.00	0.00000	0.00000	0.00000
	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	0.00	0.00000	0.00000	0.00000
29	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
30	30	0.00	0.00	0.00	0.00000	0.00000	0.00000	31	0.00	0.00	0.00	0.00000	0.00000	0.00000
	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
31	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	0.00	0.00000	0.00000	0.00000
	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	0.00	0.00000	0.00000	0.00000
32	32	0.00	0.00	0.00	0.00000	0.00000	0.00000	33	0.00	0.00	0.00	0.00000	0.00000	0.00000
	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	0.00	0.00000	0.00000	0.00000
33	42	0.00	0.00	0.00	0.00000	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
	40	0.00	0.00	0.00	0.00000	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
34	29	0.00	0.00	0.00	0.00000	0.00000	0.00000	30	0.00	0.00	0.00	0.00000	0.00000	0.00000
	42	0.00	0.00	0.00	0.00000	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
35	49	0.00	0.00	0.00	0.00000	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
	47	0.00	0.00	0.00	0.00000	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000
36	33	0.00	0.00	0.00	0.00000	0.00000	0.00000	26	0.00	0.00	0.00	0.00000	0.00000	0.00000
	49	0.00	0.00	0.00	0.00000	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
37	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
38	27	0.00	0.00	0.00	0.00000	0.00000	0.00000	28	0.00	0.00	0.00	0.00000	0.00000	0.00000
	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
39	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000
	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
40	31	0.00	0.00	0.00	0.00000	0.00000	0.00000	32	0.00	0.00	0.00	0.00000	0.00000	0.00000
	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000

SPOST. Corr. Tors. dir. 90: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
1	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
	1	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
2	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	2	0.00	0.00	0.00	0.00000	0.00000	0.00000
3	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	6	0.00	0.00	0.00	0.00000	0.00000	0.00000
4	9	0.00	0.00	0.00	0.00000	0.00000	0.00000	10	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	8	0.00	0.00	0.00	0.00000	0.00000	0.00000
5	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	9	0.00	0.00	0.00	0.00000	0.00000	0.00000
6	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
7	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
8	3	0.00	0.00	0.00	0.00000	0.00000	0.00000	15	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
9	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
	15	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
10	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
11	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	13	0.00	0.00	0.00	0.00000	0.00000	0.00000
12	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	20	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	12	0.00	0.00	0.00	0.00000	0.00000	0.00000
13	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
	20	0.00	0.00	0.00	0.00000	0.00000	0.00000	21	0.00	0.00	0.00	0.00000	0.00000	0.00000
14	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	22	0.00	0.00	0.00	0.00000	0.00000	0.00000
15	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	23	0.00	0.00	0.00	0.00000	0.00000	0.00000
16	16	0.00	0.00	0.00	0.00000	0.00000	0.00000	25	0.00	0.00	0.00	0.00000	0.00000	0.00000

SPOST. Corr. Tors. dir. 90: SHELL

Shell Nro	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)	Nodo N.ro	S1 (mm)	S2 (mm)	S3 (mm)	R1 (rad)	R2 (rad)	R3 (rad)
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	24	0.00	0.00	0.00	0.00000	0.00000	0.00000
17	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
	17	0.00	0.00	0.00	0.00000	0.00000	0.00000	14	0.00	0.00	0.00	0.00000	0.00000	0.00000
18	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	0.00	0.00000	0.00000	0.00000
	4	0.00	0.00	0.00	0.00000	0.00000	0.00000	5	0.00	0.00	0.00	0.00000	0.00000	0.00000
19	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
	7	0.00	0.00	0.00	0.00000	0.00000	0.00000	11	0.00	0.00	0.00	0.00000	0.00000	0.00000
20	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	0.00	0.00000	0.00000	0.00000
	19	0.00	0.00	0.00	0.00000	0.00000	0.00000	18	0.00	0.00	0.00	0.00000	0.00000	0.00000
21	40	0.00	0.00	0.00	0.00000	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
	5	0.00	0.00	0.00	0.00000	0.00000	0.00000	7	0.00	0.00	0.00	0.00000	0.00000	0.00000
22	47	0.00	0.00	0.00	0.00000	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000
	18	0.00	0.00	0.00	0.00000	0.00000	0.00000	17	0.00	0.00	0.00	0.00000	0.00000	0.00000
23	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
	14	0.00	0.00	0.00	0.00000	0.00000	0.00000	4	0.00	0.00	0.00	0.00000	0.00000	0.00000
24	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
	11	0.00	0.00	0.00	0.00000	0.00000	0.00000	19	0.00	0.00	0.00	0.00000	0.00000	0.00000
25	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
	36	0.00	0.00	0.00	0.00000	0.00000	0.00000	35	0.00	0.00	0.00	0.00000	0.00000	0.00000
26	26	0.00	0.00	0.00	0.00000	0.00000	0.00000	27	0.00	0.00	0.00	0.00000	0.00000	0.00000
	37	0.00	0.00	0.00	0.00000	0.00000	0.00000	38	0.00	0.00	0.00	0.00000	0.00000	0.00000
27	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	0.00	0.00000	0.00000	0.00000
	39	0.00	0.00	0.00	0.00000	0.00000	0.00000	40	0.00	0.00	0.00	0.00000	0.00000	0.00000
28	28	0.00	0.00	0.00	0.00000	0.00000	0.00000	29	0.00	0.00	0.00	0.00000	0.00000	0.00000
	41	0.00	0.00	0.00	0.00000	0.00000	0.00000	42	0.00	0.00	0.00	0.00000	0.00000	0.00000
29	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
	43	0.00	0.00	0.00	0.00000	0.00000	0.00000	34	0.00	0.00	0.00	0.00000	0.00000	0.00000
30	30	0.00	0.00	0.00	0.00000	0.00000	0.00000	31	0.00	0.00	0.00	0.00000	0.00000	0.00000
	44	0.00	0.00	0.00	0.00000	0.00000	0.00000	45	0.00	0.00	0.00	0.00000	0.00000	0.00000
31	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	0.00	0.00000	0.00000	0.00000
	46	0.00	0.00	0.00	0.00000	0.00000	0.00000	47	0.00	0.00	0.00	0.00000	0.00000	0.00000
32	32	0.00	0.00	0.00	0.00000	0.00000	0.00000	33	0.00	0.00	0.00	0.00000	0.00000	0.00000
	48	0.00	0.00	0.00	0.00000	0.00000	0.00000	49	0.00	0.00	0.00	0.00000	0.00000	0.00000
33	42	0.00	0.00	0.00	0.00000	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
	40	0.00	0.00	0.00	0.00000	0.00000	0.00000	43	0.00	0.00	0.00	0.00000	0.00000	0.00000
34	29	0.00	0.00	0.00	0.00000	0.00000	0.00000	30	0.00	0.00	0.00	0.00000	0.00000	0.00000
	42	0.00	0.00	0.00	0.00000	0.00000	0.00000	44	0.00	0.00	0.00	0.00000	0.00000	0.00000
35	49	0.00	0.00	0.00	0.00000	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
	47	0.00	0.00	0.00	0.00000	0.00000	0.00000	36	0.00	0.00	0.00	0.00000	0.00000	0.00000
36	33	0.00	0.00	0.00	0.00000	0.00000	0.00000	26	0.00	0.00	0.00	0.00000	0.00000	0.00000
	49	0.00	0.00	0.00	0.00000	0.00000	0.00000	37	0.00	0.00	0.00	0.00000	0.00000	0.00000
37	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
	35	0.00	0.00	0.00	0.00000	0.00000	0.00000	39	0.00	0.00	0.00	0.00000	0.00000	0.00000
38	27	0.00	0.00	0.00	0.00000	0.00000	0.00000	28	0.00	0.00	0.00	0.00000	0.00000	0.00000
	38	0.00	0.00	0.00	0.00000	0.00000	0.00000	41	0.00	0.00	0.00	0.00000	0.00000	0.00000
39	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000
	34	0.00	0.00	0.00	0.00000	0.00000	0.00000	46	0.00	0.00	0.00	0.00000	0.00000	0.00000
40	31	0.00	0.00	0.00	0.00000	0.00000	0.00000	32	0.00	0.00	0.00	0.00000	0.00000	0.00000
	45	0.00	0.00	0.00	0.00000	0.00000	0.00000	48	0.00	0.00	0.00	0.00000	0.00000	0.00000

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

Quo N.r	P. Nr	Nod3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt Direz. X	x/d	Molt Direz. Y	x/d	Ax s	Ay s	Ax i	Ay i	Atag	σt N/mmq	eta mm	Fpunz. N	FpnzLi N	Apunz cmq
													-------- cmq /m-------									
0	1	12	0	0	0	1373	-886	-39	76.7	0.1	99.9	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	13	0	0	0	-7340	-11921	-13	14.3	0.1	8.8	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	19	0	0	0	959	2929	132	99.9	0.1	35.9	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	20	0	0	0	-3136	2655	1667	33.6	0.1	39.7	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	21	0	0	0	949	1128	918	99.9	0.1	93.3	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	22	0	0	0	2546	1417	-1058	41.4	0.1	74.3	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	23	0	0	0	-1816	-694	32	58.0	0.1	99.9	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	24	0	0	0	2771	1584	1140	38.0	0.1	66.5	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	25	0	0	0	-890	1024	-803	99.9	0.1	99.9	0.10	7.7	7.7	7.7	7.7	0.0	0.03	-.03			

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

Quo N.r	P. Nr	Nod3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt Direz. X	x/d	Molt Direz. Y	x/d	Ax s	Ay s	Ax i	Ay i	Atag	σt N/mmq	eta mm	Fpunz. N	FpnzLi N	Apunz cmq
													-------- cmq /m-------									
0	1	12	0	0	0	1249	-483	-20	98.2	0.1	99.9	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	13	0	0	0	-7340	-11921	-13	16.7	0.1	10.3	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	19	0	0	0	828	2929	462	99.9	0.1	41.9	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	20	0	0	0	-3006	2655	1534	40.8	0.1	46.2	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	21	0	0	0	-943	1107	941	99.9	0.1	99.9	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	22	0	0	0	2546	1417	-1058	48.2	0.1	86.6	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	23	0	0	0	-1816	-694	32	67.6	0.1	99.9	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	24	0	0	0	2771	1584	1140	44.3	0.1	77.5	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			
0	1	25	0	0	0	-890	996	-825	99.9	0.1	99.9	0.09	7.7	7.7	7.7	7.7	0.0	0.03	-.03			

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

			FESSURAZIONI										TENSIONI	DIREZIONE X				DIREZIONE Y			
Quo N.r	Per N.r	Nodo N.ro	Comb. Cari	Fes lim	Fess mm	dis mm	Co mb	MfX kN*m)	NX (kN)	MfY kN*m)	NY (kN)	cos teta	sin teta	Combina Carico	σ lim. N/mmq	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)

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

			FESSURAZIONI											TENSIONI		DIREZIONE X				DIREZIONE Y			
Quo N.r	Per N.r	Nodo N.ro	Comb. Cari	Fes lim	Fess mm	dis mm	Co mb	MfX kN*m)	NX (kN)	MfY kN*m)	NY (kN)	cos teta	sin teta	Combina Carico	σ lim. N/mmq	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)
0	1	12	Rara											RaraCls	18.00	0.09	2	1.0	0.0	0.03	2	-0.3	0.0
			Freq	0.3	0.00	0	2	0.9	0.0	0.0	0.0	0.000	0.000	RaraFer	360.0	3.6	2	1.0	0.0	1.2	2	-0.3	0.0
			Perm	0.2	0.00	0	1	0.9	0.0	0.0	0.0	0.000	0.000	PermCls	13.50	0.09	1	0.9	0.0	0.03	1	-0.3	0.0
0	1	13	Rara											RaraCls	18.00	0.58	2	-5.9	0.0	0.87	2	-9.0	0.0
			Freq	0.3	0.00	0	2	-5.8	0.0	-8.8	0.0	0.000	0.000	RaraFer	360.0	22.3	2	-5.9	0.0	33.6	2	-9.0	0.0
			Perm	0.2	0.00	0	1	-5.8	0.0	-8.8	0.0	0.000	0.000	PermCls	13.50	0.56	1	-5.8	0.0	0.85	1	-8.8	0.0
0	1	19	Rara											RaraCls	18.00	0.07	2	0.7	0.0	0.20	2	2.1	0.0
			Freq	0.3	0.00	0	2	0.7	0.0	2.1	0.0	0.000	0.000	RaraFer	360.0	2.6	2	0.7	0.0	7.8	2	2.1	0.0
			Perm	0.2	0.00	0	1	0.7	0.0	2.1	0.0	0.000	0.000	PermCls	13.50	0.07	1	0.7	0.0	0.20	1	2.1	0.0
0	1	20	Rara											RaraCls	18.00	0.22	2	-2.3	0.0	0.18	2	1.8	0.0
			Freq	0.3	0.00	0	2	-2.2	0.0	-0.4	0.0	0.000	0.000	RaraFer	360.0	8.5	2	-2.3	0.0	6.9	2	1.8	0.0
			Perm	0.2	0.00	0	1	-2.2	0.0	-0.4	0.0	0.000	0.000	PermCls	13.50	0.22	1	-2.2	0.0	0.18	1	1.8	0.0
0	1	21	Rara											RaraCls	18.00	0.08	2	0.9	0.0	0.09	2	1.0	0.0
			Freq	0.3	0.00	0	2	0.8	0.0	0.9	0.0	0.000	0.000	RaraFer	360.0	3.2	2	0.9	0.0	3.6	2	1.0	0.0
			Perm	0.2	0.00	0	1	0.8	0.0	0.9	0.0	0.000	0.000	PermCls	13.50	0.08	1	0.8	0.0	0.09	1	0.9	0.0
0	1	22	Rara											RaraCls	18.00	0.15	1	1.5	0.0	0.06	1	0.6	0.0
			Freq	0.3	0.00	0	1	1.5	0.0	0.7	0.0	0.000	0.000	RaraFer	360.0	5.6	1	1.5	0.0	2.4	1	0.6	0.0
			Perm	0.2	0.00	0	1	1.5	0.0	0.7	0.0	0.000	0.000	PermCls	13.50	0.15	1	1.5	0.0	0.06	1	0.7	0.0
0	1	23	Rara											RaraCls	18.00	0.12	2	-1.3	0.0	0.03	1	-0.3	0.0
			Freq	0.3	0.00	0	2	-1.3	0.0	-0.3	0.0	0.000	0.000	RaraFer	360.0	4.8	2	-1.3	0.0	1.2	1	-0.3	0.0
			Perm	0.2	0.00	0	1	-1.3	0.0	-0.3	0.0	0.000	0.000	PermCls	13.50	0.12	1	-1.3	0.0	0.03	1	-0.3	0.0
0	1	24	Rara											RaraCls	18.00	0.16	1	1.6	0.0	0.07	1	0.7	0.0
			Freq	0.3	0.00	0	1	1.6	0.0	0.8	0.0	0.000	0.000	RaraFer	360.0	6.1	1	1.6	0.0	2.8	1	0.7	0.0
			Perm	0.2	0.00	0	1	1.6	0.0	0.8	0.0	0.000	0.000	PermCls	13.50	0.16	1	1.6	0.0	0.07	1	0.8	0.0
0	1	25	Rara											RaraCls	18.00	0.07	2	-0.7	0.0	0.09	2	0.9	0.0
			Freq	0.3	0.00	0	2	0.7	0.0	0.9	0.0	0.000	0.000	RaraFer	360.0	2.8	2	-0.7	0.0	3.3	2	0.9	0.0
			Perm	0.2	0.00	0	1	0.7	0.0	0.9	0.0	0.000	0.000	PermCls	13.50	0.07	1	-0.7	0.0	0.08	1	0.9	0.0

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

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											----------	cmq	/m----------				
1	2	14	-2608	-3288	3355	537	-1619	-21	99.90	48.16	7.7	7.7	7.7	7.7	0.0	0.032	-0.3
1	2	37	-35517	-13804	3994	7260	1612	-951	15.56	99.90	7.7	7.7	7.7	7.7	0.1		-0.3
1	2	38	-23329	5007	3872	-5344	-7171	13	19.57	8.08	7.7	7.7	7.7	7.7	0.0		-0.3
1	2	39	-24329	-18682	1814	4678	-18	654	25.33	99.90	7.7	7.7	7.7	7.7	0.0		-0.3
1	2	41	-35796	-14346	4344	7516	1673	981	14.74	99.90	7.7	7.7	7.7	7.7	0.1		-0.3

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

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											----------	cmq	/m----------				
1	3	5	-3550	-11912	910	-1493	-9080	-56	54.36	7.89	7.7	7.7	7.7	7.7	0.0	0.030	-0.3
1	3	7	-1051	-3455	7209	738	690	565	98.37	99.90	7.7	7.7	7.7	7.7	0.1	0.032	-0.3
1	3	40	-31296	-16504	2510	8789	10872	-135	10.67	6.75	7.7	7.7	7.7	7.7	0.0		-0.3
1	3	42	-24467	-2301	2858	10281	9757	92	7.90	6.52	7.7	7.7	7.7	7.7	0.0		-0.3
1	3	44	-27862	-12812	4435	-8404	-2185	-1574	10.81	60.60	7.7	7.7	7.7	7.7	0.1		-0.3

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

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											----------	cmq	/m----------				
1	5	11	-1817	-3343	3418	388	1727	24	99.90	44.65	7.7	7.7	7.7	7.7	0.0	0.032	-0.3
1	5	44	-35823	-14161	4213	-7178	-1605	-958	15.97	99.90	7.7	7.7	7.7	7.7	0.1		-0.3
1	5	45	-23520	4710	3851	5272	7241	-12	20.12	8.04	7.7	7.7	7.7	7.7	0.0		-0.3
1	5	46	-25588	-15302	1968	-4275	-18	-76	31.66	99.90	7.7	7.7	7.7	7.7	0.0		-0.3
1	5	48	-35494	-13763	3778	-6938	-1556	930	16.85	99.90	7.7	7.7	7.7	7.7	0.0		-0.3

S.L.U. - AZIONI S.L.V. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 10

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											----------	cmq	/m----------				
1	10	18	-3390	-11400	587	2189	9073	58	33.62	7.84	7.7	7.7	7.7	7.7	0.0	0.030	-0.3
1	10	19	-1195	-4053	7494	691	-753	-581	99.90	99.90	7.7	7.7	7.7	7.7	0.1	0.032	-0.3
1	10	47	-32879	-16094	2589	-8814	-10957	135	10.88	6.66	7.7	7.7	7.7	7.7	0.0		-0.3
1	10	48	-28538	-13059	4132	8265	2205	1599	11.19	60.67	7.7	7.7	7.7	7.7	0.1		-0.3
1	10	49	-25063	-2153	2927	-10263	-9826	-93	7.97	6.46	7.7	7.7	7.7	7.7	0.0		-0.3

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

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											----------	cmq	/m----------				
1	2	14	-2321	-4116	1101	262	-544	-19	99.90	99.90	7.7	7.7	7.7	7.7	0.0	0.030	-0.3
1	2	37	-35517	-14456	3307	7260	1402	-673	19.47	99.90	7.7	7.7	7.7	7.7	0.1		-0.3
1	2	38	-30610	5007	1406	-5954	-7171	19	24.70	9.46	7.7	7.7	7.7	7.7	0.0		-0.3
1	2	39	-25340	-23274	1064	3879	795	398	48.51	99.90	7.7	7.7	7.7	7.7	0.0		-0.3
1	2	41	-35796	-15086	3827	7516	1444	682	18.43	99.90	7.7	7.7	7.7	7.7	0.1		-0.3

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

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											----------	cmq	/m----------				
1	3	5	-3550	-11912	604	-1493	-9080	-56	65.22	9.33	7.7	7.7	7.7	7.7	0.0	0.030	-0.3
1	3	7	-1972	-4022	7209	693	621	521	99.90	99.90	7.7	7.7	7.7	7.7	0.1	0.030	-0.3
1	3	40	-31296	-16504	1075	8789	10872	-135	13.22	8.00	7.7	7.7	7.7	7.7	0.0		-0.3
1	3	42	-24467	-2301	1122	10281	9757	92	9.48	7.67	7.7	7.7	7.7	7.7	0.0		-0.3
1	3	44	-27862	-19460	3161	-8404	-2682	-1963	13.30	80.73	7.7	7.7	7.7	7.7	0.1		-0.3

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

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											---------		cmq /m---------				
1	5	11	-2097	-4108	1162	225	644	17	99.90	99.90	7.7	7.7	7.7	7.7	0.0	0.030	-0.3
1	5	44	-35823	-14964	3579	-7178	-1377	-659	20.00	99.90	7.7	7.7	7.7	7.7	0.1		-0.3
1	5	45	-30680	4710	1395	5862	7241	-18	25.48	9.42	7.7	7.7	7.7	7.7	0.0		-0.3
1	5	46	-26437	-23158	1223	-3559	-620	385	61.93	99.90	7.7	7.7	7.7	7.7	0.0		-0.3
1	5	48	-35494	-14459	2999	-6938	-1346	651	21.12	99.90	7.7	7.7	7.7	7.7	0.0		-0.3

S.L.U. - AZIONI S.L.D. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 10

Gr.Q N.ro	Gen N.r	Nodo 3d N.ro	Nx N/m	Ny N/m	Txy N/m	Mx N*m /m	My N*m /m	Mxy N*m /m	Molt.Ult. Direz. X	Molt.Ult. Direz. Y	Ax s.	Ay s.	Ax i.	Ay i.	Atag.	σt N/mmq	eta mm
											---------		cmq /m---------				
1	10	18	-3390	-11400	274	2189	9073	58	39.86	9.27	7.7	7.7	7.7	7.7	0.0	0.030	-0.3
1	10	19	-2172	-6504	7494	-768	-893	-707	99.90	99.90	7.7	7.7	7.7	7.7	0.1	0.030	-0.3
1	10	47	-32879	-16094	1039	-8814	-10957	135	13.54	7.88	7.7	7.7	7.7	7.7	0.0		-0.3
1	10	48	-28538	-19670	2903	8265	2702	1998	13.82	80.29	7.7	7.7	7.7	7.7	0.1		-0.3
1	10	49	-25063	-2153	1196	-10263	-9826	-93	9.58	7.60	7.7	7.7	7.7	7.7	0.0		-0.3

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

			FESSURAZIONI										TENSIONI	DIREZIONE X				DIREZIONE Y			
GrQ N.r	Gen N.r	Nodo N.ro	Comb. Cari	Fes lim	Fess mm	dis mm	Co mb	MfX kN*m)	NX (kN)	MfY kN*m)	NY (kN)	cos teta	sin teta	Combina Carico	σ lim. N/mmq	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)
1	2	14	Rara											RaraCls	18.00	0.03	2	0.2	-2.3	0.04	2	0.2	-5.6
			Freq	0.3	0.00	0	2	0.2	-2.3	0.1	-5.4	0.000	0.000	RaraFer	360.0	0.2	2	0.2	-2.3	0.2	2	0.2	-5.6
			Perm	0.2	0.00	0	1	0.2	-2.3	0.1	-5.3	0.000	0.000	PermCls	13.50	0.03	1	0.2	-2.3	0.03	1	0.1	-5.3
1	2	37	Rara											RaraCls	18.00	1.02	1	4.8	-23.5	0.19	2	1.2	-13.9
			Freq	0.3	0.00	0	2	4.8	-23.5	1.2	-13.7	0.000	0.000	RaraFer	360.0	16.3	1	4.8	-23.5	1.0	2	1.2	-13.9
			Perm	0.2	0.00	0	1	4.8	-23.5	1.2	-13.6	0.000	0.000	PermCls	13.50	1.02	1	4.8	-23.5	0.19	1	1.2	-13.6
1	2	38	Rara											RaraCls	18.00	0.84	2	-4.0	-20.4	1.10	2	-4.8	1.9
			Freq	0.3	0.00	0	2	-4.0	-20.4	-4.8	2.2	0.000	0.000	RaraFer	360.0	12.8	1	-4.0	-20.4	32.5	1	-4.8	2.1
			Perm	0.2	0.00	0	1	-4.0	-20.3	-4.8	2.3	0.000	0.000	PermCls	13.50	0.84	1	-4.0	-20.3	1.10	1	-4.8	2.3
1	2	39	Rara											RaraCls	18.00	0.61	2	3.1	-23.1	0.11	2	0.6	-16.1
			Freq	0.3	0.00	0	2	3.1	-23.1	0.6	-16.0	0.000	0.000	RaraFer	360.0	6.6	2	3.1	-23.1	0.7	2	0.6	-16.1
			Perm	0.2	0.00	0	1	3.1	-23.1	0.6	-15.9	0.000	0.000	PermCls	13.50	0.61	1	3.1	-23.1	0.11	1	0.6	-15.9
1	2	41	Rara											RaraCls	18.00	1.06	1	5.0	-23.7	0.19	2	1.2	-14.6
			Freq	0.3	0.00	0	2	5.0	-23.7	1.2	-14.3	0.000	0.000	RaraFer	360.0	17.2	1	5.0	-23.7	1.0	2	1.2	-14.6
			Perm	0.2	0.00	0	1	5.0	-23.7	1.2	-14.2	0.000	0.000	PermCls	13.50	1.06	1	5.0	-23.7	0.19	1	1.2	-14.2

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

			FESSURAZIONI										TENSIONI	DIREZIONE X				DIREZIONE Y			
GrQ N.r	Gen N.r	Nodo N.ro	Comb. Cari	Fes lim	Fess mm	dis mm	Co mb	MfX kN*m)	NX (kN)	MfY kN*m)	NY (kN)	cos teta	sin teta	Combina Carico	σ lim. N/mmq	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)
1	3	5	Rara											RaraCls	18.00	0.22	1	-1.0	-2.8	1.37	2	-6.2	-9.8
			Freq	0.3	0.00	0	2	-1.0	-2.7	-6.1	-9.6	0.000	0.000	RaraFer	360.0	4.6	1	-1.0	-2.8	33.7	1	-6.1	-9.6
			Perm	0.2	0.00	0	1	-1.0	-2.7	-6.1	-9.5	0.000	0.000	PermCls	13.50	0.22	1	-1.0	-2.7	1.37	1	-6.1	-9.5
1	3	7	Rara											RaraCls	18.00	0.10	2	0.5	-1.4	0.10	1	0.5	-4.1
			Freq	0.3	0.00	0	2	0.5	-1.4	0.5	-4.0	0.000	0.000	RaraFer	360.0	2.1	1	0.5	-1.4	1.0	1	0.5	-4.1
			Perm	0.2	0.00	0	1	0.5	-1.4	0.5	-4.0	0.000	0.000	PermCls	13.50	0.10	1	0.5	-1.4	0.10	1	0.5	-4.0
1	3	40	Rara											RaraCls	18.00	1.26	1	5.8	-20.9	1.60	1	7.2	-13.6
			Freq	0.3	0.00	0	1	5.8	-20.9	7.2	-13.3	0.000	0.000	RaraFer	360.0	24.4	1	5.8	-20.9	38.2	1	7.2	-13.6
			Perm	0.2	0.00	0	1	5.8	-20.9	7.2	-13.3	0.000	0.000	PermCls	13.50	1.26	1	5.8	-20.9	1.60	1	7.2	-13.3
1	3	42	Rara											RaraCls	18.00	1.50	1	6.8	-16.3	1.47	1	6.5	-2.8
			Freq	0.3	0.00	0	2	6.8	-16.3	6.5	-2.6	0.000	0.000	RaraFer	360.0	33.9	1	6.8	-16.3	40.4	1	6.5	-2.8
			Perm	0.2	0.00	0	1	6.8	-16.3	6.5	-2.6	0.000	0.000	PermCls	13.50	1.50	1	6.8	-16.3	1.47	1	6.5	-2.6
1	3	44	Rara											RaraCls	18.00	1.21	2	-5.6	-18.5	0.34	1	-1.8	-13.5
			Freq	0.3	0.00	0	2	-5.6	-18.4	-1.8	-13.5	0.000	0.000	RaraFer	360.0	24.4	1	-5.6	-18.5	3.5	1	-1.8	-13.5
			Perm	0.2	0.00	0	1	-5.6	-18.4	-1.8	-13.4	0.000	0.000	PermCls	13.50	1.21	1	-5.6	-18.4	0.34	1	-1.8	-13.4

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

			FESSURAZIONI										TENSIONI	DIREZIONE X				DIREZIONE Y			
GrQ N.r	Gen N.r	Nodo N.ro	Comb. Cari	Fes lim	Fess mm	dis mm	Co mb	MfX kN*m)	NX (kN)	MfY kN*m)	NY (kN)	cos teta	sin teta	Combina Carico	σ lim. N/mmq	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)
1	5	11	Rara											RaraCls	18.00	0.02	1	0.1	-2.3	0.03	2	-0.1	-5.6
			Freq	0.3	0.00	0	1	0.1	-2.3	0.0	-5.3	0.000	0.000	RaraFer	360.0	0.1	1	0.1	-2.3	0.2	2	-0.1	-5.6
			Perm	0.2	0.00	0	1	0.1	-2.3	0.0	-5.3	0.000	0.000	PermCls	13.50	0.02	1	0.1	-2.3	0.02	1	0.0	-5.3
1	5	44	Rara											RaraCls	18.00	1.01	1	-4.8	-23.7	0.18	2	-1.1	-14.5
			Freq	0.3	0.00	0	2	-4.8	-23.7	-1.1	-14.2	0.000	0.000	RaraFer	360.0	15.8	1	-4.8	-23.7	1.0	2	-1.1	-14.5
			Perm	0.2	0.00	0	1	-4.8	-23.7	-1.1	-14.1	0.000	0.000	PermCls	13.50	1.01	1	-4.8	-23.7	0.18	1	-1.1	-14.1
1	5	45	Rara											RaraCls	18.00	0.83	2	3.9	-20.5	1.11	2	4.8	1.7
			Freq	0.3	0.00	0	2	3.9	-20.4	4.8	2.0	0.000	0.000	RaraFer	360.0	12.3	1	3.9	-20.4	32.6	1	4.8	1.9
			Perm	0.2	0.00	0	1	3.9	-20.4	4.8	2.0	0.000	0.000	PermCls	13.50	0.82	1	3.9	-20.4	1.11	1	4.8	2.0
1	5	46	Rara											RaraCls	18.00	0.54	2	-2.9	-24.1	0.10	2	-0.5	-16.1
			Freq	0.3	0.00	0	2	-2.9	-24.1	-0.5	-15.9	0.000	0.000	RaraFer	360.0	4.7	2	-2.9	-24.1	0.6	2	-0.5	-16.1
			Perm	0.2	0.00	0	1	-2.9	-24.2	-0.5	-15.9	0.000	0.000	PermCls	13.50	0.54	1	-2.9	-24.2	0.10	1	-0.5	-15.9
1	5	48	Rara											RaraCls	18.00	0.97	1	-4.6	-23.5	0.18	2	-1.1	-14.0
			Freq	0.3	0.00	0	2	-4.6	-23.5	-1.1	-13.7	0.000	0.000	RaraFer	360.0	14.9	1	-4.6	-23.5	1.0	2	-1.1	-14.0
			Perm	0.2	0.00	0	1	-4.6	-23.4	-1.1	-13.6	0.000	0.000	PermCls	13.50	0.97	1	-4.6	-23.4	0.18	1	-1.1	-13.6

S.L.E. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 10

			FESSURAZIONI										TENSIONI	DIREZIONE X				DIREZIONE Y			
GrQ N.r	Gen N.r	Nodo N.ro	Comb. Cari	Fes lim	Fess mm	dis mm	Co mb	MfX kN*m)	NX (kN)	MfY kN*m)	NY (kN)	cos teta	sin teta	Combina Carico	σ lim. N/mmq	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)
1	10	18	Rara											RaraCls	18.00	0.34	2	1.5	-2.7	1.37	2	6.1	-9.4
			Freq	0.3	0.00	0	2	1.5	-2.6	6.1	-9.2	0.000	0.000	RaraFer	360.0	8.0	2	1.5	-2.7	33.9	1	6.1	-9.3

S.L.E. - VERIFICA SHELL C.A. - QUOTA: 1 ELEMENTO: 10

			FESSURAZIONI											TENSIONI		DIREZIONE X				DIREZIONE Y			
GrQ N.r	Gen N.r	Nodo N.ro	Comb. Cari	Fes lim	Fess mm	dis mm	Co mb	MfX kN*m)	NX (kN)	MfY kN*m)	NY (kN)	cos teta	sin teta	Combina Carico	σ lim. N/mmq	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)	σ cal. N/mmq	Co mb	Mf kN*m)	N (kN)
			Perm	0.2	0.00	0	1	1.5	-2.6	6.1	-9.2	0.000	0.000	PermCls	13.50	0.33	1	1.5	-2.6	1.37	1	6.1	-9.2
1	10	19	Rara											RaraCls	18.00	0.11	1	-0.5	-1.6	0.11	2	-0.6	-4.6
			Freq	0.3	0.00	0	1	-0.5	-1.5	-0.6	-4.6	0.000	0.000	RaraFer	360.0	2.1	1	-0.5	-1.6	1.1	1	-0.6	-4.6
			Perm	0.2	0.00	0	1	-0.5	-1.5	-0.6	-4.6	0.000	0.000	PermCls	13.50	0.11	1	-0.5	-1.5	0.11	1	-0.6	-4.6
1	10	47	Rara											RaraCls	18.00	1.26	1	-5.8	-22.0	1.61	1	-7.3	-13.3
			Freq	0.3	0.00	0	1	-5.8	-22.0	-7.3	-13.1	0.000	0.000	RaraFer	360.0	23.8	1	-5.8	-22.0	38.8	1	-7.3	-13.3
			Perm	0.2	0.00	0	1	-5.8	-22.0	-7.3	-13.1	0.000	0.000	PermCls	13.50	1.26	1	-5.8	-22.0	1.61	1	-7.3	-13.1
1	10	48	Rara											RaraCls	18.00	1.19	2	5.5	-18.9	0.34	1	1.8	-13.7
			Freq	0.3	0.00	0	2	5.5	-18.9	1.8	-13.6	0.000	0.000	RaraFer	360.0	23.6	1	5.5	-18.9	3.5	1	1.8	-13.7
			Perm	0.2	0.00	0	1	5.5	-18.8	1.8	-13.5	0.000	0.000	PermCls	13.50	1.19	1	5.5	-18.8	0.34	1	1.8	-13.5
1	10	49	Rara											RaraCls	18.00	1.50	1	-6.8	-16.7	1.48	1	-6.5	-2.7
			Freq	0.3	0.00	0	2	-6.8	-16.7	-6.5	-2.6	0.000	0.000	RaraFer	360.0	33.6	1	-6.8	-16.7	40.8	1	-6.5	-2.7
			Perm	0.2	0.00	0	1	-6.8	-16.7	-6.5	-2.5	0.000	0.000	PermCls	13.50	1.50	1	-6.8	-16.7	1.48	1	-6.5	-2.5