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COMUNE DI MANTOVA

CAMERA DI COMMERCIO INDUSTRIA, ARTIGIANATO E AGRICOLTURA DI MANTOVA

PROGETTAZIONE DEFINITIVA, ESECUTIVA E SERVIZI CONNESSI DEL NUOVO ARCHIVIO DELLA CAMERA DI COMMERCIO

PROGETTO ESECUTIVO - STRUTTURE

PENSILINA METALLICA Relazione di Calcolo delle Strutture

| | | | | |
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A. Generalità

La presente relazione di calcolo costituisce parte integrante della documentazione predisposta ai fini del dimensionamento definitivo delle membrature d'acciaio impiegate per la realizzazione della **pensilina metallica** d'accesso al nuovo Archivio della Camera di Commercio di Mantova.

Trattasi, in particolare, di una struttura ottenuta mediante assemblaggio bullonato di profili ad L 30x30x4 (impiegati per l'orditura minuta disposta a sostegno dei pannelli di copertura), di elementi binati tipo UPN (1+1 UPN120 per le travi secondarie ed 1+1 UPN180 per le travi principali) e di profili tubolari a sezione circolare $\phi 88.9 \times 3.2$ (utilizzati per le colonne a forcina). La **Figura A.1** e **Figura A.2** la mostrano in maniera chiara la configurazione di riferimento utilizzata per il dimensionamento strutturale degli elementi esaminati:

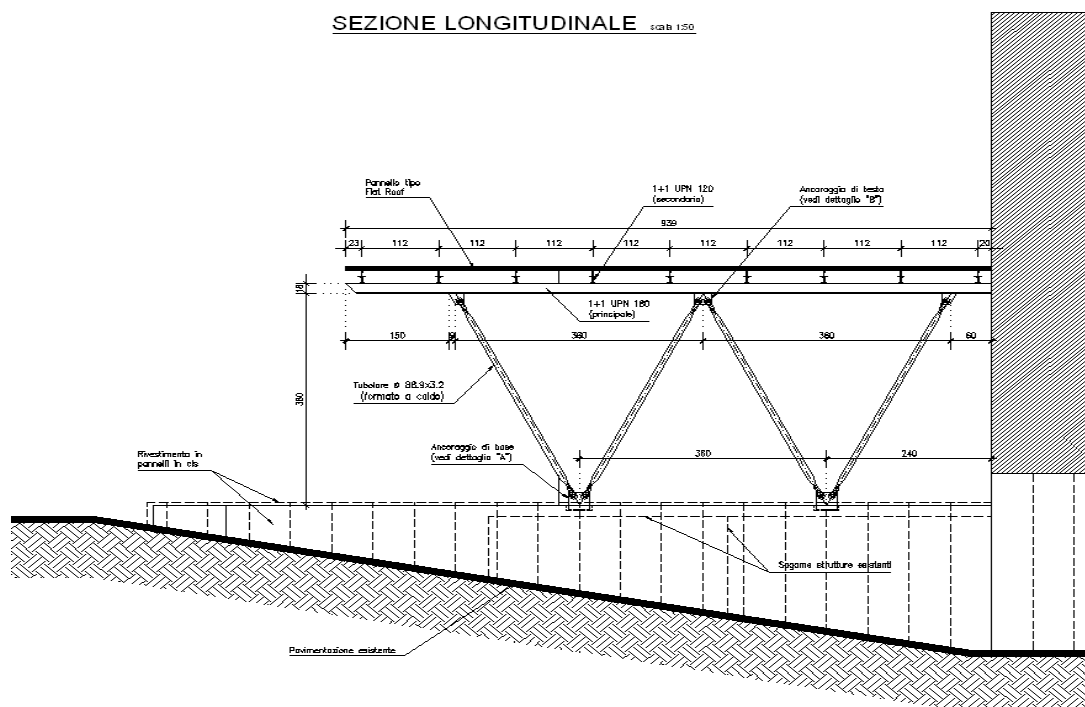


Figura A.1: Sezione longitudinale della pensilina

Le **opere di fondazione** della pensilina appena descritta, vengono realizzate mediante la parziale trasformazione dei muri controterra esistenti (realizzati al fine di delimitare la rampa di accesso ai locali interrati) ed attraverso la realizzazione di un nuovo elemento in c.a. (avente altezza massima di 1.60 m e finalizzato alla sostituzione delle strutture demolite).

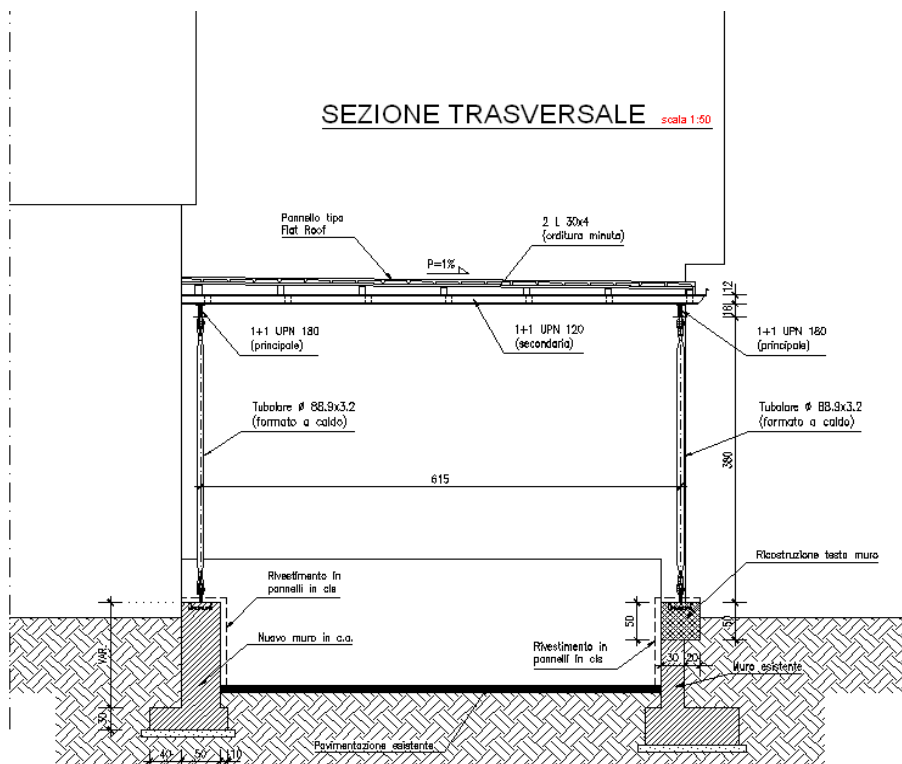


Figura A.2: Sezione trasversale della pensilina metallica

Per maggiori dettagli relativi alla tipologia dei giunti, alla posizione prevista per le saldature ad alle modalità di aggancio della struttura metallica ai cementi armati, si rimanda direttamente alle informazioni riportate nell'elaborato grafico di riferimento.

B. Ipotesi preliminari

B.1. Normativa di riferimento

In accordo a quanto prescritto dall'art.21 della **Legge 5 novembre 1971 n.1086 (G.U. n.321 del 21.12.1971)** per l'esecuzione delle opere in conglomerato cementizio armato, normale e precompresso ed a struttura metallica, nonché dall'art.1 della **Legge 2 febbraio 1974 n.64 (G.U. n.76 del 21.3.1974)**, per tutte le costruzioni devono essere rispettate le prescrizioni contenute nei seguenti Decreti Ministeriali e relative Circolari di Istruzioni.

In compatibilità a quanto previsto dalla normativa nazionale, ove ritenuto opportuno, verrà fatto riferimento alle informazioni riportate negli Eurocodici (inseriti al capitolo 12 del D.M. 14/01/08 fra i riferimenti tecnici di riconosciuta applicabilità).

- **DOCUMENTI GENERALI:**

Istruzioni CNR 10024/86

Analisi di strutture mediante elaboratore: impostazione e redazione delle relazioni di calcolo.

Decreto Ministeriale 14 gennaio 2008

Testo aggiornato delle Norme Tecniche per le Costruzioni.

Circolare Ministero dei Lavori Pubblici, 02 febbraio 2009

Istruzioni per l'applicazione delle "Nuove norme tecniche per le costruzioni" di cui al Decreto Ministeriale 14 gennaio 2008.

- **STRUTTURE in C.A. e ACCIAIO:**

Decreto Ministeriale 16 gennaio 1996

Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche.

Circolare 15-10-1996 m.252 – AA.GG/S.T.C.

Istruzioni per l'applicazione delle Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche di cui al D.M. 9 gennaio 1996.

Eurocodice 2, novembre 2005

Progettazione di strutture di calcestruzzo, parte 1-1: regole generali e regole per gli edifici.

Istruzioni CNR 10011:

Costruzioni di acciaio - Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione.

Eurocodice 3, novembre 2005

Progettazione di strutture di acciaio, parte 1-1: regole generali e regole per gli edifici.

B.2. Criteri di verifica

Il calcolo delle sollecitazioni viene condotto facendo riferimento, a seconda del caso, alle teorie della Scienza delle Costruzioni o agli usuali metodi utilizzati nella modellazione numerica delle strutture. In particolare il software impiegato nella simulazione ai fini di estrarre i parametri di sollecitazione e di deformazione, è il codice **Straus7** (release 2.4.1) prodotto dalla ditta Strand7 Pty Ltd (Sydney, Australia) e distribuito in Italia da HSH Srl. La validazione di tale prodotto avviene a partire da una documentazione (Verification Manual) che attesta l'accuratezza delle soluzioni ottenute in relazione alla modellazione di problematiche fisiche con soluzioni analitiche note.

La verifica degli elementi costituenti le strutture descritte viene effettuata adottando la filosofia proposta nel D.M. 14/01/08, ovvero secondo il **metodo agli stati limite**. In particolare sono considerati sia gli stati limite ultimi che gli stati limite di esercizio

B.3. Materiali

Si riportano brevemente di seguito le caratteristiche meccaniche richieste per i materiali previsti nella progettazione, facendo riferimento al calcestruzzo strutturale, alle barre d'armatura ed all'acciaio per carpenteria metallica.

- **Calcestruzzo armato:**

La resistenza prevista per il calcestruzzo da impiegare negli elementi strutturali gettati in opera è tale da conformarsi ai requisiti previsti nella EN 206-1 per la classe di resistenza C28/35. In estrema sintesi:

classe di resistenza a compressione:

C28/35

resistenza caratteristica cubica:

$$R_{ck} = 35 \text{ N/mm}^2$$

resistenza caratteristica cilindrica:

$$f_{ck} = 28 \text{ N/mm}^2$$

resistenza cilindrica di progetto:

$$f_{cd} = f_{ck} / \gamma_c = 18.7 \text{ N/mm}^2$$

resistenza cilindrica di calcolo:

$$f'_{cd} = \alpha f_{cd} = 15.9 \text{ N/mm}^2$$

caratteristiche elastiche:

$$E_{cm} = 31700 \text{ N/mm}^2$$

- **Acciaio per armature:**

La resistenza prevista per le barre metalliche nervate da impiegare negli elementi strutturali gettati in opera è tale da conformarsi ai requisiti previsti nella EN 10080 per le armature appartenenti alla classe B450C. In estrema sintesi:

| | |
|---|---|
| <i>resistenza caratteristica a snervamento:</i> | $f_{yk} = 450 \text{ N/mm}^2$ |
| <i>resistenza a trazione di calcolo:</i> | $f_{yd} = f_{yk} / \gamma_s = 391 \text{ N/mm}^2$ |
| <i>caratteristiche elastiche:</i> | $E_s = 210000 \text{ N/mm}^2$ |

- **Acciaio da carpenteria metallica:**

I profilati impiegati per la realizzazione della struttura portante della pensilina metallica sono in acciaio tipo S275JR. Tutte le viti sono di classe 8.8 e sono correttamente abbinate a dadi e rosette, secondo le prescrizioni contenute nelle CNR 10011. In particolare:

| | |
|---|---|
| <i>designazione prodotto:</i> | S275 |
| <i>resistenza caratteristica a rottura:</i> | $f_{ak} = 430 \text{ N/mm}^2$ |
| <i>resistenza caratteristica a snervamento:</i> | $f_{yk} = 275 \text{ N/mm}^2$ |
| <i>resistenza a trazione di calcolo:</i> | $f_{ad} = f_{yk} / \gamma_s = 261.9 \text{ N/mm}^2$ |
| <i>caratteristiche elastiche:</i> | $E_a = 210000 \text{ N/mm}^2$ |
| <i>coefficiente di dilatazione:</i> | $\alpha_a = 12 \times 10^{-6}$ |

C. Analisi dei carichi

C.1. *Pesi propri strutturali*

I pesi propri delle strutture portanti (dove non altrove specificati) derivano direttamente dai pesi specifici adottati per i materiali da costruzione indicati in precedenza. Più precisamente è possibile individuare:

| | |
|------------------------------|------------------------------|
| <i>Calcestruzzo armato</i> | <i>2500 kg/m³</i> |
| <i>Carpenteria metallica</i> | <i>7850 kg/m³</i> |

C.2. *Peso del terreno di riempimento*

Il peso del terreno di riempimento, utilizzato al fine di risalire al valore delle spinte trasmesse alle opere di sostegno, viene fissato pari al valore di seguito riportato:

| | |
|----------------------------|------------------------------|
| <i>Terreno riempimento</i> | <i>1800 kg/m³</i> |
|----------------------------|------------------------------|

C.3. *Carichi permanenti portati*

I carichi permanenti portati sono rappresentativi per il pannello prefabbricato di copertura, per le finiture aggiuntive previste all'intradosso ed all'estradosso dello stesso e per tutte le dotazioni impiantistiche eventualmente previste dal progetto architettonico (illuminazione, etc ...). In particolare:

| | |
|-------------------------|----------------------------|
| <i>Complessivamente</i> | <i>30 kg/m²</i> |
|-------------------------|----------------------------|

C.4. *Sovraccarichi variabili*

Gli unici carichi accidentali di tipo non climatico cui l'impalcato di copertura della pensilina metallica può essere soggetto, sono quelli dovuti alle operazioni di manutenzione. Le verifiche geotecniche relative ai muri controterra, diversamente, ipotizzano un carico di tipo carrabile. In particolare:

| | |
|---------------------------|------------------------------|
| <i>Manutenzione</i> | <i>100 kg/m²</i> |
| <i>Carico autovetture</i> | <i>1000 kg/m²</i> |

C.5. Neve

Il carico neve sulle coperture viene valutato adottando la procedura indicata nelle normative richiamate in precedenza. In particolare si fissa:

$$q_s = \mu_i q_{sk} C_E C_t$$

q_s è il carico neve sulla copertura

μ_i è il coefficiente di forma della copertura

q_{sk} è il valore di riferimento del carico neve al suolo

C_E è il coefficiente di esposizione

C_t è il coefficiente termico

Il carico agisce in direzione verticale ed è riferito alla proiezione orizzontale della superficie di copertura. Nel caso in esame siamo in ZONA I, con altitudine minore di 200 m slm, e la falda di copertura ha un'inclinazione inferiore ai 15°, di conseguenza i parametri appena descritti assumono i seguenti valori:

$$\mu_i = 0.8$$

$$q_{sk} = 150 \text{ kg/m}^2$$

$$C_E = 1.0$$

$$C_t = 1.0$$

$$q_s = 0.8 \times 150 \times 1.0 \times 1.0 = 120 \text{ kg/m}^2$$

C.6. Vento

Come richiesto dalla normativa di riferimento (D.M. 14/01/08) vengono di seguito riportate le formulazioni proposte sia per il caso relativo alle azioni normali prodotte dalle pressioni statiche equivalenti che per quello relativo alle azioni tangenziali indotte dagli effetti di trascinamento.

Azioni normali alle superfici: l'azione del vento risulta assimilabile ad un carico statico positivo (pressione) o negativo (depressione), agente in direzione ortogonale ai vari elementi costituenti la costruzione. La pressione statica equivalente da impiegare nel calcolo viene dunque determinata utilizzando la seguente espressione:

$$p = q_b C_e C_p C_d$$

q_b è la pressione di riferimento in funzione della zona

c_e è il coefficiente di esposizione

c_p è il coefficiente di forma

c_d è il coefficiente dinamico

Nel caso in esame l'opera si colloca in Zona 1, ad altitudine inferiore ai 750 m. Il terreno appartiene alla classe di rugosità B ed il sito è nella classe di esposizione IV. Di conseguenza le principali informazioni necessarie a determinare le azioni di progetto possono essere ricavate come sotto indicato :

$$q_b = 0.5 \rho v_b^2 = 39.1 \text{ kg/m}^2$$

$$k_r = 0.22$$

$$z_0 = 0.30 \text{ m}$$

$$z_{min} = 8.00 \text{ m}$$

$$c_t = 1.0$$

$$c_e = 0.0484 \times 1.00 \ln(z / 0.30) (7 + 1.0 \ln(z / 0.30))$$

$$c_p = 0.8 \text{ per le pareti direttamente investite dal vento}$$
$$= 0.4 \text{ per le pareti non direttamente investite dal vento}$$

$$c_d = 1.00$$

Azioni tangenziali alle superfici: vengono di norma considerate per superfici di grande estensione. La pressione statica equivalente da utilizzare nel calcolo, parallela alla direzione del vento, vale in questo caso:

$$p_f = q_b c_e c_f$$

q_{ref} è la pressione di riferimento in funzione della zona

c_e è il coefficiente di esposizione

c_f è il coefficiente di attrito

Nel caso in esame l'opera si colloca in Zona 1, ad altitudine inferiore ai 750 m. Il terreno appartiene alla classe di rugosità B ed il sito è nella classe di esposizione IV. Si ipotizza infine che le superfici esposte dell'edificio siano definibili come scabre. Di conseguenza le principali informazioni necessarie a determinare le azioni di progetto possono essere ricavate come sotto indicato:

$$q_b = 0.5 \rho v_b^2 = 39.1 \text{ kg/m}^2$$

$$k_r = 0.22$$

$$z_0 = 0.30 \text{ m}$$

$$z_{min} = 8.00 \text{ m}$$

$$c_e = 0.0484 \times 1.00 \ln(z / 0.30) (7 + 1.0 \ln(z / 0.30))$$

$$c_f = 0.02$$

C.7. Sisma

Il Comune di Mantova, stando alla corrente classificazione del territorio Nazionale, può essere collocato in **Zona Sismica di tipo 4**. La **vita nominale** dell'opera viene fissata, in accordo a quanto previsto dal D.M. 14/01/08, in **50 anni** mentre la **Classe d'uso** della costruzione è la **II** ($c_u = 1.00$). Le seguenti figure sintetizzano dunque i valori dei principali parametri d'interesse:

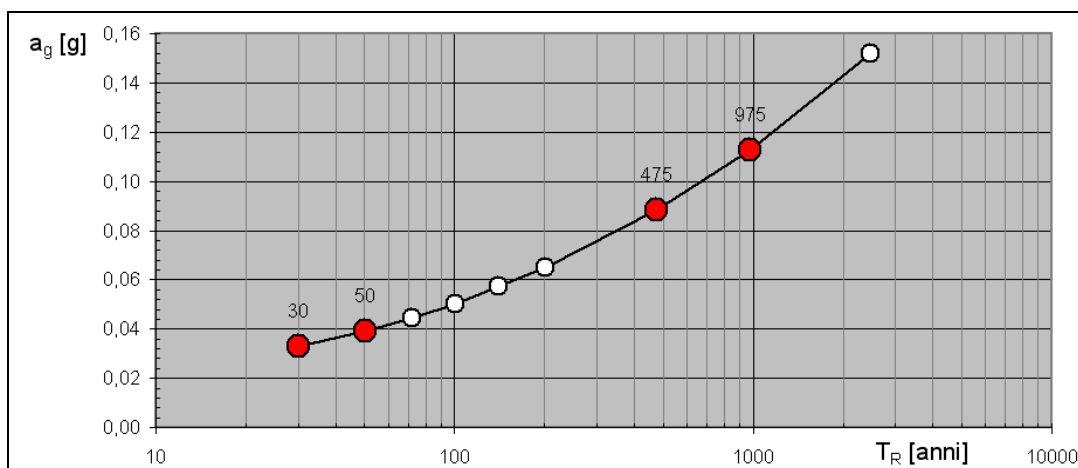


Figura C.1: Accelerazione massima orizzontale prevista nel sito di progetto

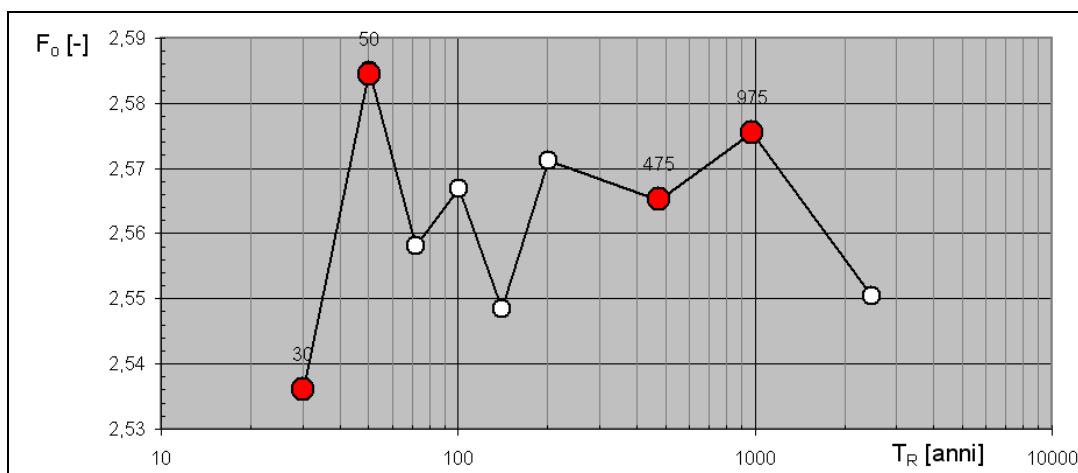


Figura C.2: Massimo fattore di amplificazione orizzontale dello spettro

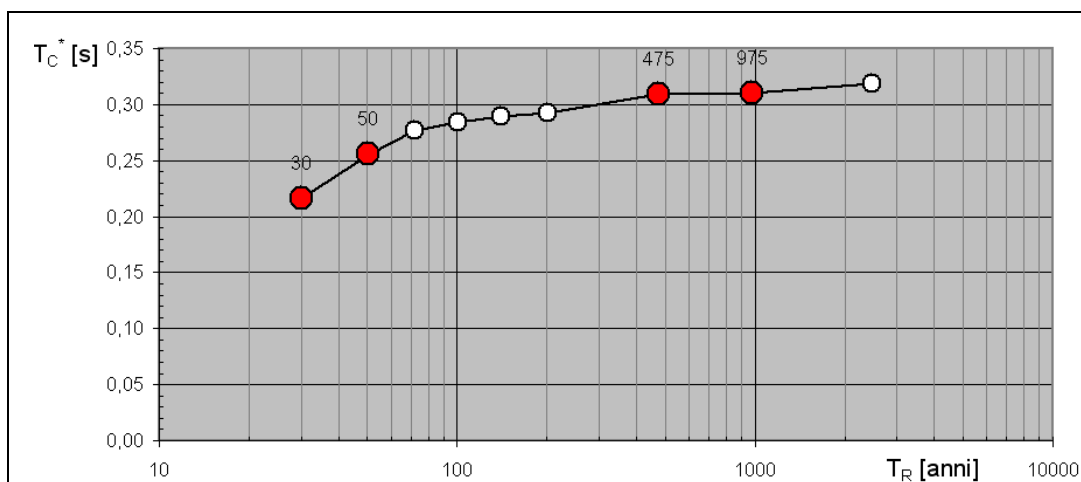


Figura C.3: Periodo di inizio del tratto a velocità costante dello spettro

In particolare esse propongono i grafici relativi all'andamento dei parametri d'azione in funzione del tempo di ritorno considerato e gli spettri di risposta elastici previsti per il caso di sisma agente in direzione orizzontale.

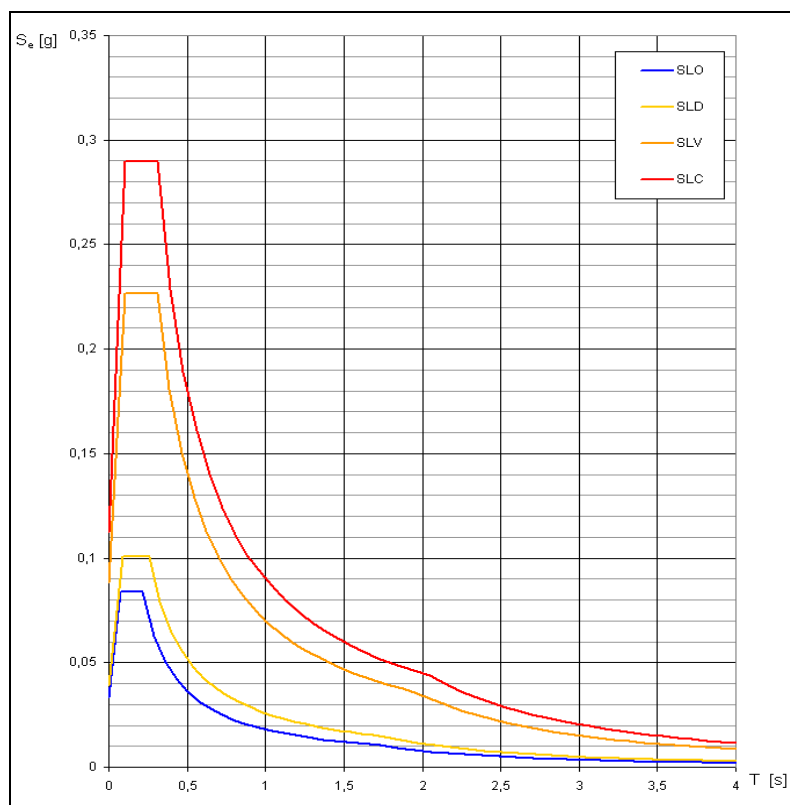


Figura C.4: Spettri elastici relativi ai vari stati limite considerati

D. Verifica elementi metallici

La verifica delle membrature metalliche utilizzate per la realizzazione della pensilina, viene condotta facendo riferimento ad una modellazione numerica realizzata mediante il software agli elementi finiti Straus 7.2.4. Tale strumento implementa infatti, fra le sue numerose funzioni, il calcolo elastico delle tensioni agenti nei profili secondo le formulazioni classiche proposte da Navier e Jourawski.

Queste quantità, come noto, permettono di valutare in maniera completa lo stato di sollecitazione nella struttura, consentendo di valutarne l'idoneità a sostenere i carichi di progetto. Le immagini di seguito proposte hanno dunque lo scopo di visualizzare le principali caratteristiche del modello: la geometria, la numerazione dei nodi, le condizioni di vincolo ...

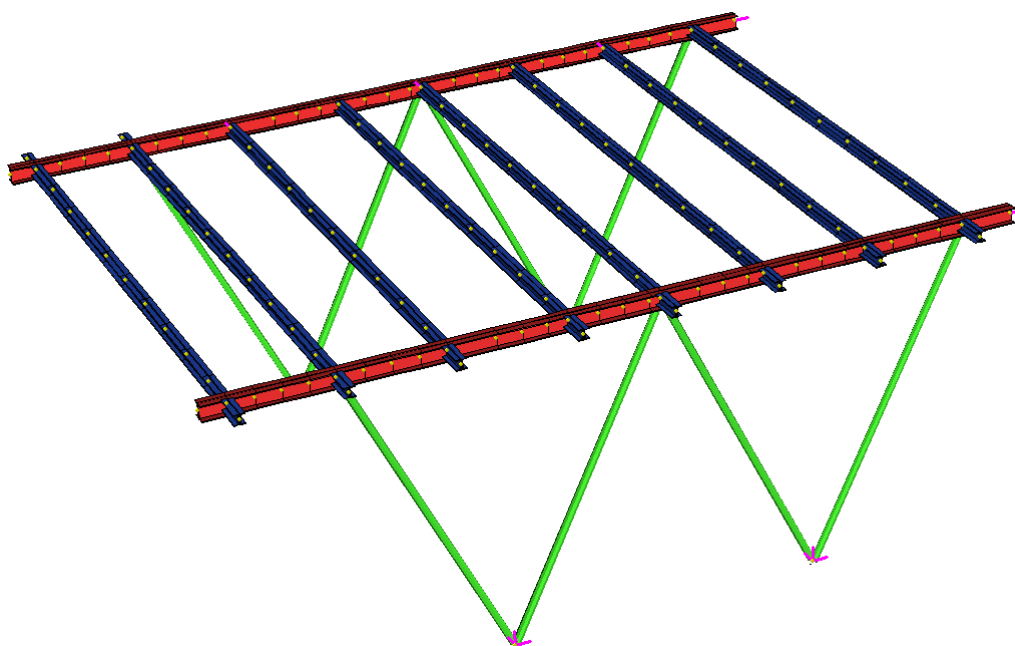


Figura D.1: *Renderizzazione solida del modello utilizzato per la pensilina metallica*

I carichi agenti a livello dell'impalcato di copertura sono applicati al modello mediante elementi di tipo "load patch", aventi la sola funzione di ripartire sugli elementi "beam" le pressioni uniformemente distribuite dovute alla neve o alla manutenzione. La **Figura D.4**, in particolare, è dedicata alla visualizzazione di tali elementi e mette in evidenza, mediante linee colorate, la tipologia di distribuzione adottata.

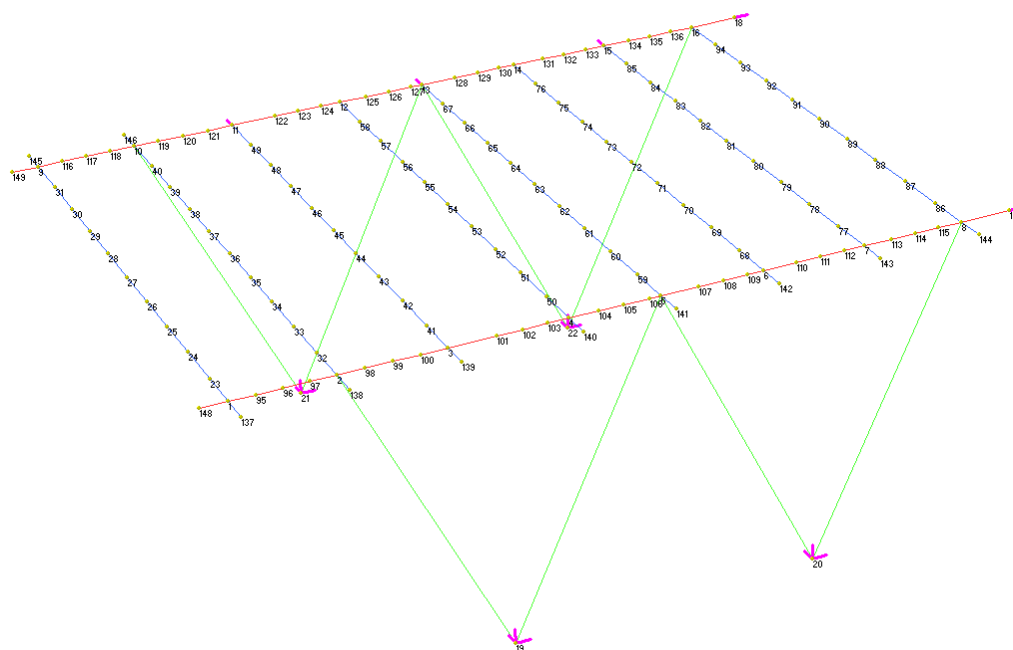


Figura D.2: Vista in linea d'asse del modello con numerazione dei nodi

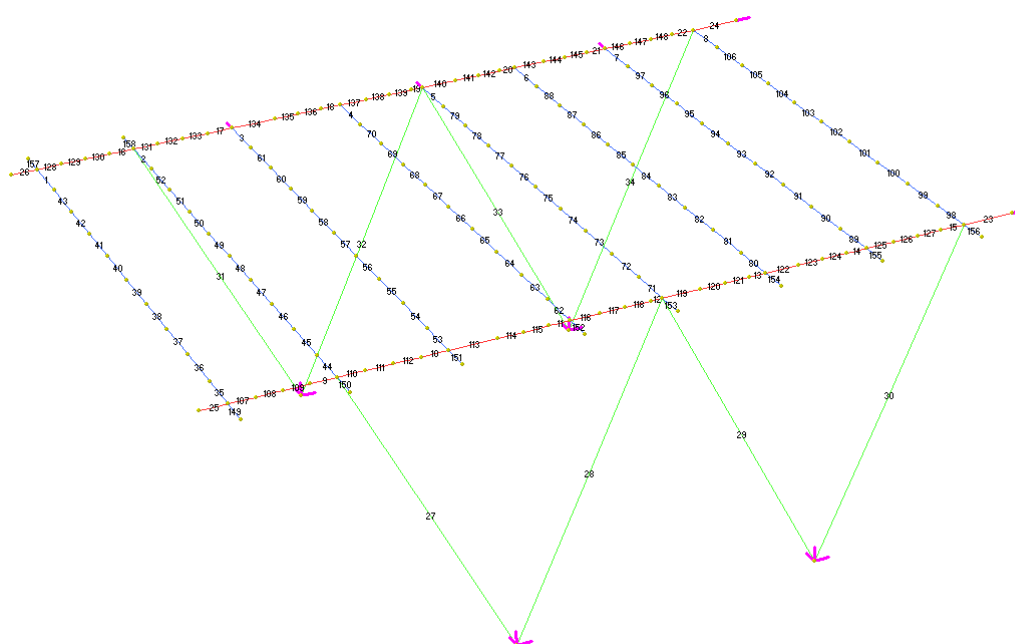


Figura D.3: Vista in linea d'asse del modello con numerazione dei "beam"

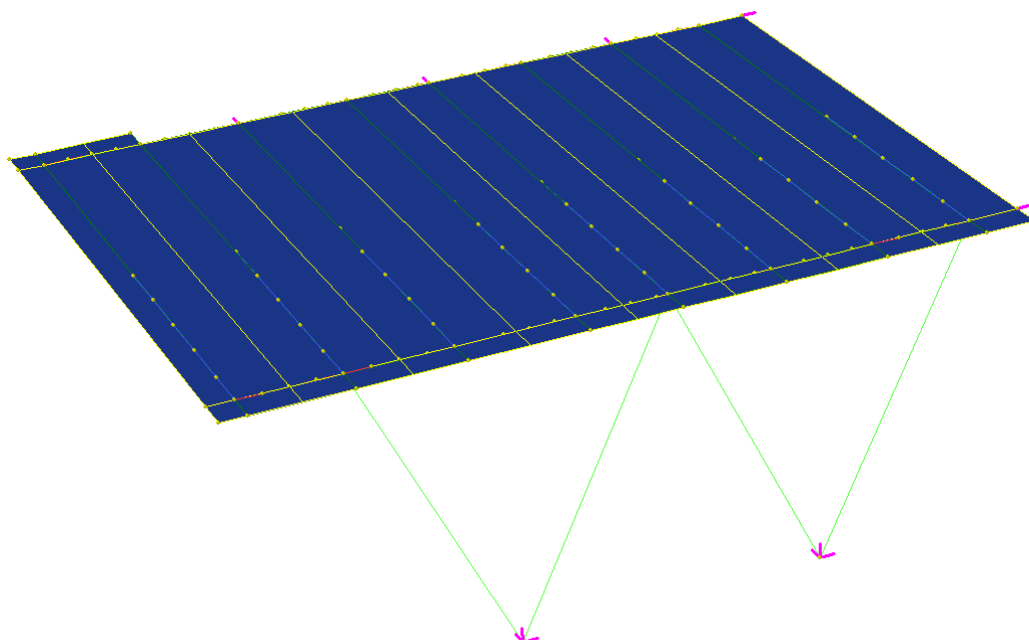


Figura D.4: Dettaglio dei “load patches” utilizzati per la ripartizione dei carichi

Entrando nello specifico, il modello prevede l’impiego di due differenti tipologie di elementi finiti. In particolare l’orditura principale dell’impalcato di copertura viene simulata utilizzando elementi “beam” dotati di 6 gdl in corrispondenza di ciascun nodo (di cui tre rotazionali e tre traslazionali) e caratterizzati da una formulazione completa alla Timoshenko. Le colonne a forcina, invece, sono modellate con elementi “truss” dotati di 3 soli gdl in corrispondenza di ciascun nodo (tutti di tipo traslazionale). I vincoli alla base, infine, riproducono l’effetto statico corrispondente alla presenza di una cerniera perfetta. Per maggiori dettagli relativi alla geometria, alla modalità di applicazione dei carichi o alle proprietà meccaniche adottate per simulare il comportamento del materiale in campo elastico, si rimanda direttamente a quanto presentato negli allegati numerici proposti alla fine della presente relazione di calcolo.

Di seguito si presentano invece le mappe a colori utili al fine di comprendere in maniera completa le prestazioni del sistema nei riguardi dei carichi di progetto. Le informazioni in esse riportate sono senza dubbio sufficienti a valutare l’idoneità delle sezioni adottate a fronteggiare le sollecitazioni di natura assiale, tagliante e flettente.

Per completezza in **Figura D.8** viene dunque proposta la deformata statica della struttura per la combinazione agli SLE rara. Vengono infine riportati i calcoli relativi alle instabilità di tipo flessionale o flessotorsionale che potrebbero interessare le membrature in esame.

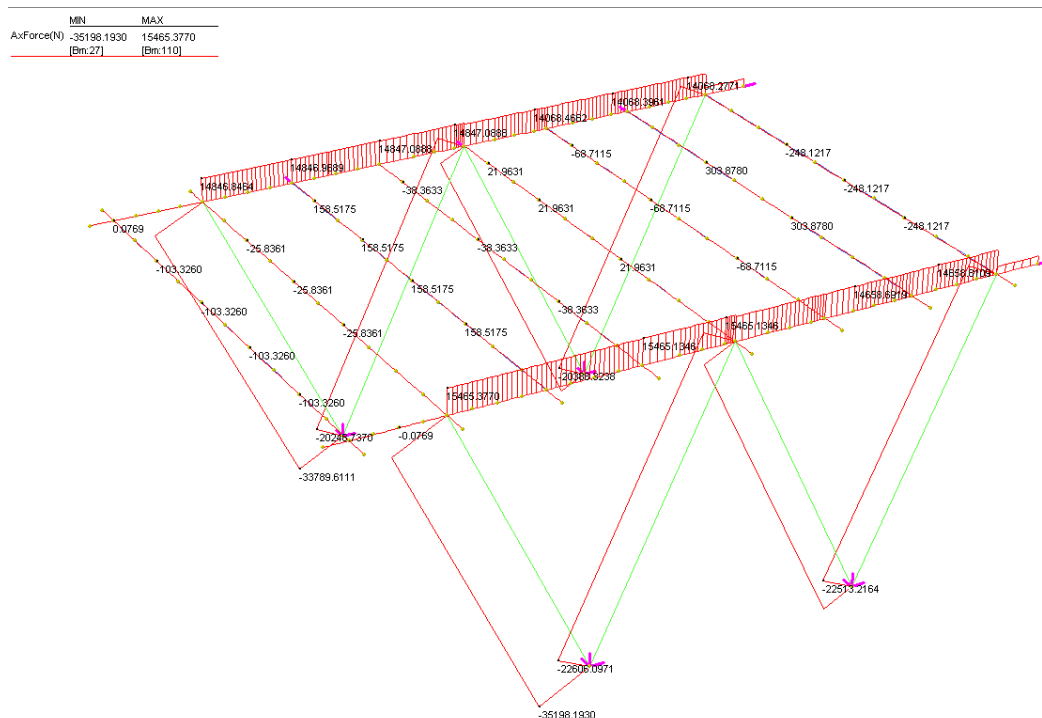


Figura D.5: Azioni assiali generate da carichi agenti agli SLU

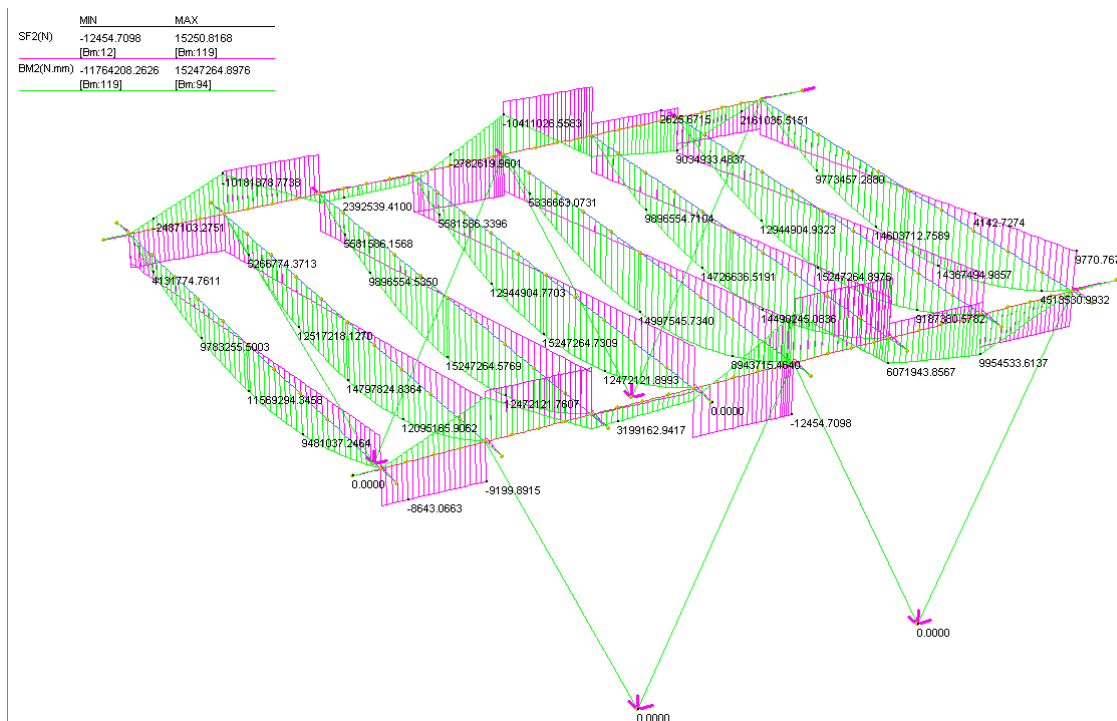


Figura D.6: Azioni flettenti e taglianti generate da carichi agenti agli SLU

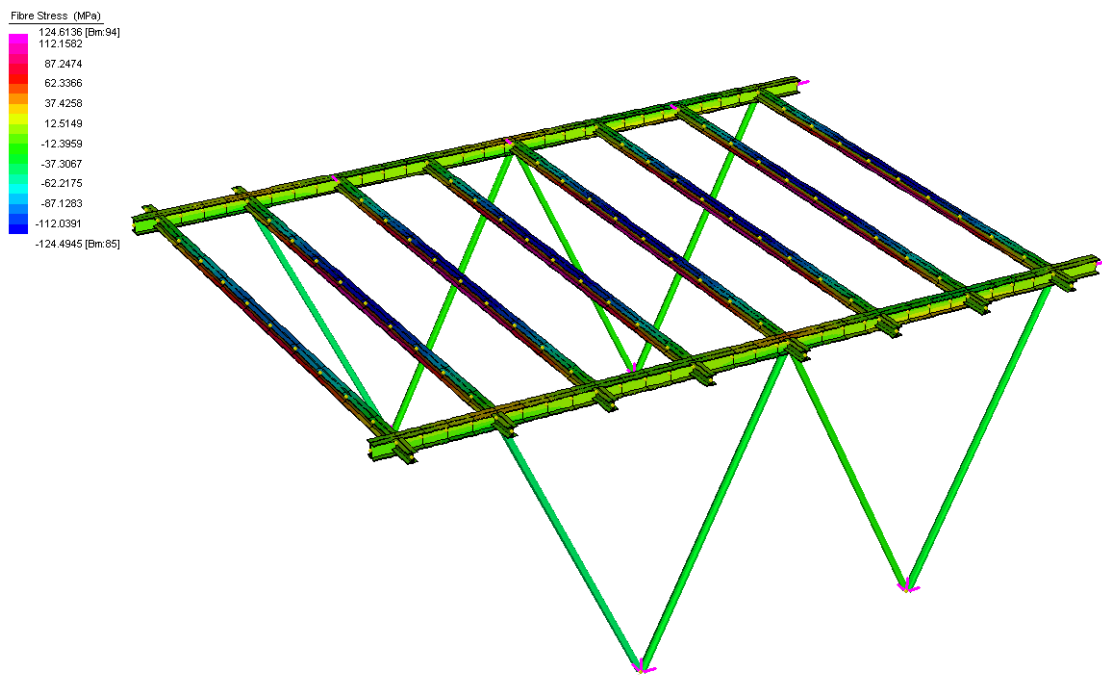


Figura D.7: Tensioni totali nelle membrature generate da carichi agenti agli SLU

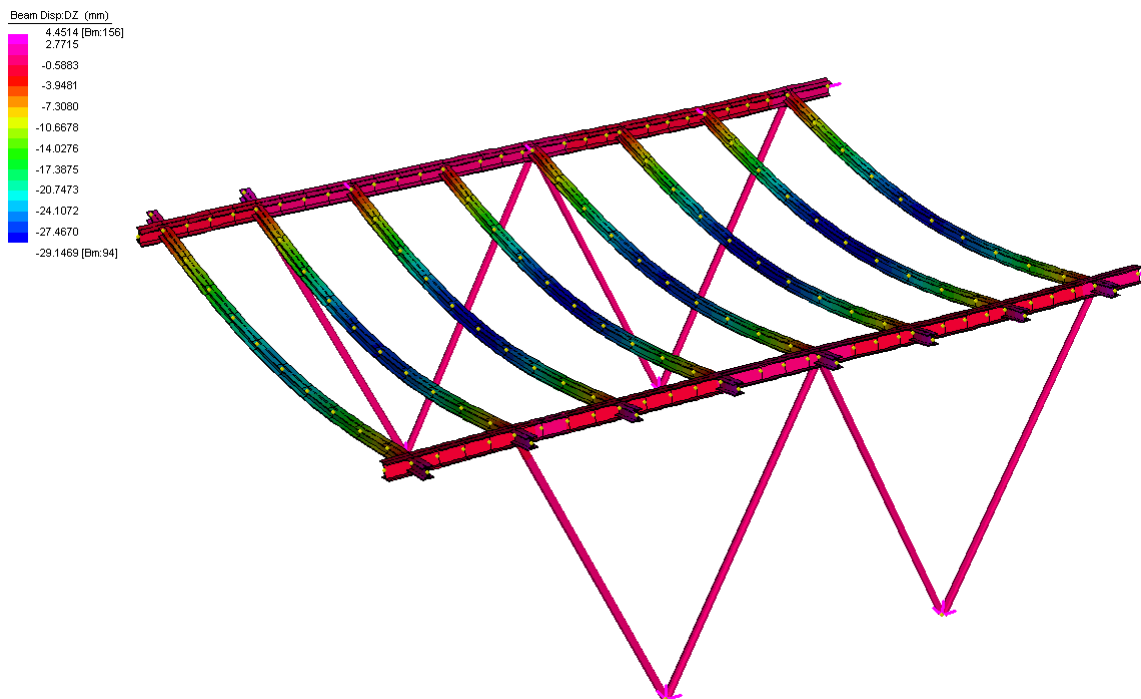


Figura D.8: Andamento della deformata in condizioni di esercizio

D.1. Verifiche strutturali

D.1.1. Travi secondarie

Di seguito si riportano le verifiche relative alle travi principali UPN 120 della copertura:

$$M_{SLU} = 15247264 \text{ Nmm}$$

$$V_{SLU} = 9771 \text{ N}$$

$$\sigma = 15247264 / (2 * 60700) = \mathbf{126 \text{ N/mm}^2} < 261.9 \text{ N/mm}^2.$$

$$\tau = 9771 / (2 * 7 * 120) = \mathbf{5.82 \text{ N/mm}^2}$$

La deformazione massima in condizioni di esercizio (condizione rara) è pari a:

$$f_{SLE} = \mathbf{29 \text{ mm}} = l/217 < l/200$$

La verifica nei confronti dell'instabilità flessotorsionale viene effettuata tenendo conto che i profili sono di fatto calastrellati dalla presenza dei piatti di sopralzo; di conseguenza si assume una sezione ad I senza tenere conto dell'interspazio:

$$\omega_1' = f_y * h * L / (0.585 * E_s * b * t_l) = 275 / (0.585 * 210000) * (120 * 6300) / (55 * 2 * 9) = 1.70$$

con:

$$f_y = 275 \text{ Mpa}$$

$$h = 120 \text{ mm (altezza trave)}$$

$$E_s = 210000 \text{ N/mm}^2$$

$$L = 6300 \text{ mm (lunghezza di un campo di travi)}$$

$$b = 55 \text{ mm (larghezza ali)}$$

$$t_l = 9 \text{ mm (spessore ali)}$$

$$\omega_1'' = 1.4 * 1.7 = 2.38$$

$$\sigma = \omega_1'' * M_{eq} / (\Psi_x * W) = 2.38 * 0.867 * 15247264 / (2 * 60700) = \mathbf{259} < 261.9 \text{ N/mm}^2.$$

con:

$$M_{eq} = 1.3 * M_m$$

$$M_m = 2/3 M_{max}$$

$$\Psi_x = 1.0$$

$$W = 60700 \text{ mm}^3.$$

D.1.2. Travi principali

Di seguito si riportano le verifiche relative alle travi principali UPN 180 della copertura:

$$M_{SLU} = 11764208 \text{ Nmm}$$

$$V_{SLU} = 15250 \text{ N}$$

$$\sigma = 11764208 / (2 * 150000) = \mathbf{39.2 \text{ N/mm}^2} < 261.9 \text{ N/mm}^2.$$

$$\tau = 15250 / (2 * 8 * 180) = 5.3 \text{ N/mm}^2$$

La deformazione massima in condizioni di esercizio (condizione rara) è pari a:

$$f_{SLE} = 2.1 \text{ mm} = l/690 < l/200$$

La verifica nei confronti dell'instabilità flessotorsionale viene effettuata tenendo conto che l'accoppiamento è garantito dalla bullonatura dei traversi e risulta:

$$\omega_1' = f_y * h * L / (0.585 * E_s * b * t_l) = 275 / (0.585 * 210000) * (180 * 3600) / (70 * 2 * 11) = 0.94 \text{ assumo } 1.0$$

con:

$$f_y = 275 \text{ Mpa}$$

$$h = 180 \text{ mm (altezza trave)}$$

$$E_s = 210000 \text{ N/mm}^2$$

$$L = 3600 \text{ mm (lunghezza di un campo di travi)}$$

$$b = 70 \text{ mm (larghezza ali)}$$

$$t_l = 11 \text{ mm (spessore ali)}$$

$$\omega_1'' = 1.4 * 1.0 = 1.4$$

$$\sigma = \omega_1'' * M_{eq} / (\Psi_x * W) = 1.4 * 0.867 * 11764208 / (2 * 150000) = 48 < 261.9 \text{ N/mm}^2.$$

con:

$$M_{eq} = 1.3 * M_m$$

$$M_m = 2/3 M_{max}$$

$$\Psi_x = 1.0$$

$$W = 150000 \text{ mm}^3.$$

D.1.3. Terzere

I pannelli di copertura vengono supportati da profili a L 30x30 sp 4mm accoppiati.

Tali elementi sono vincolati mediante saldatura, con interasse 1,03m ai piatti di sovrizzo dei profili UPN 120.

Il carico agente su questi elementi è dovuto al peso proprio dei pannelli ed al carico avriabile eventualmente presente.

$$Q_{sle} = (300 + 1200) * 1.15 = 1750 \text{ N/m}$$

Il coefficiente amplificativo tiene conto del piastrame

$$Q_{slu} = 1.5 * 1750 = 2600 \text{ N/m}$$

Si considera una struttura su più campate appoggiate.

Di conseguenza l'azione flettente massima è valutabile con la seguente formula:

$$M = q * l^2 / 10 = 275800 \text{ Nmm}$$

La freccia

$$F = 2.65 / 384 * q * l^4 / (E * J)$$

Essendo la luce pari a

$$L = 1030 \text{ mm}$$

E volendo un valore $< l/200$ si ha $f_{max} = 5.15$ mm ottenendo:

$J_{min} = 18672 \text{ mm}^4$, per ciascun elemento risulta quindi $J_{min} = 9336 \text{ mm}^4$.

Gli elementi hanno i seguenti W e J complessivamente.

$W = 850 * 2 = 1700 \text{ mm}^3$.

$J = 18000 * 2 = 36000 \text{ mm}^4$.

La tensione massima risulta invece:

$\sigma = 275800/1700 = 162 \text{ N/mm}^2$.

D.1.4. Colonne

Di seguito si riportano le verifiche relative agli elementi tubolari che costituiscono la struttura di supporto verticale costituita da elementi tubolari di diametro 88.9 mm e spessore 3.2 mm.

$N_{SLU} = 35198 \text{ N}$

$L = 4065 \text{ mm}$

$A = 861.6 \text{ mm}^2$.

$W = 17820 \text{ mm}^3$.

$J = 792100 \text{ mm}^4$.

$i = 30.32 \text{ mm}$

ne consegue che la snellezza λ risulta:

$\lambda = 4065/30.32 = 134$

Ed il coefficiente amplificativo del carico ω è pari secondo la curva "a":

$\omega = 2.80$

$\sigma_{max} = 2.80 * 35198/861.6 = 114 \text{ N/mm}^2 < 261.9 \text{ mm}^2$.

D.1.5. Collegamento a terra

Il collegamento alla struttura in c.a. armato viene realizzato mediante 4 piastre tassellate alla sottostruttura stessa.

Il massimo valore di taglio sollecitante **complessivo su un appoggio** è pari a

$V = 6000 \text{ N}$

Si utilizzano tasselli tipo Hilti HVU con HAS M16 di lunghezza 125 mm e con foro piastra pari a 18 mm.

Questi tasselli hanno ciascuno una resistenza a taglio pari a:

$V_{rd} = 6700 \text{ N}$

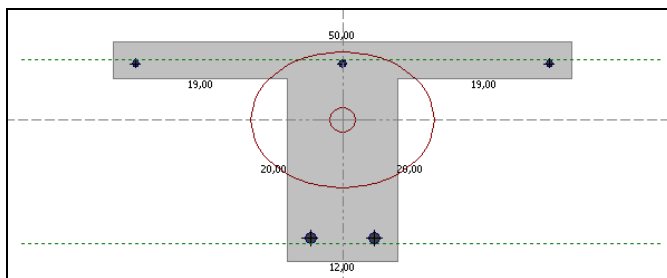
Tenendo conto della classe del calcestruzzo, della distanza dal bordo e dell'interasse tra i tasselli si ha un valore ridotto, **per ogni tassello**, pari a:

$V_{rd\text{ eff}} = 6540 \text{ N}$

La verifica risulta quindi soddisfatta

E. Solaio di chiusura del vano montacarichi

Si tratta un solaio in travetti in laterizio e calcestruzzo e pignatte in laterizio, con luce di calcolo pari a 3,5 m e altezza pari a 20 + 4 cm, del quale se ne mostra una sezione. Si esegue una verifica agli SLU.



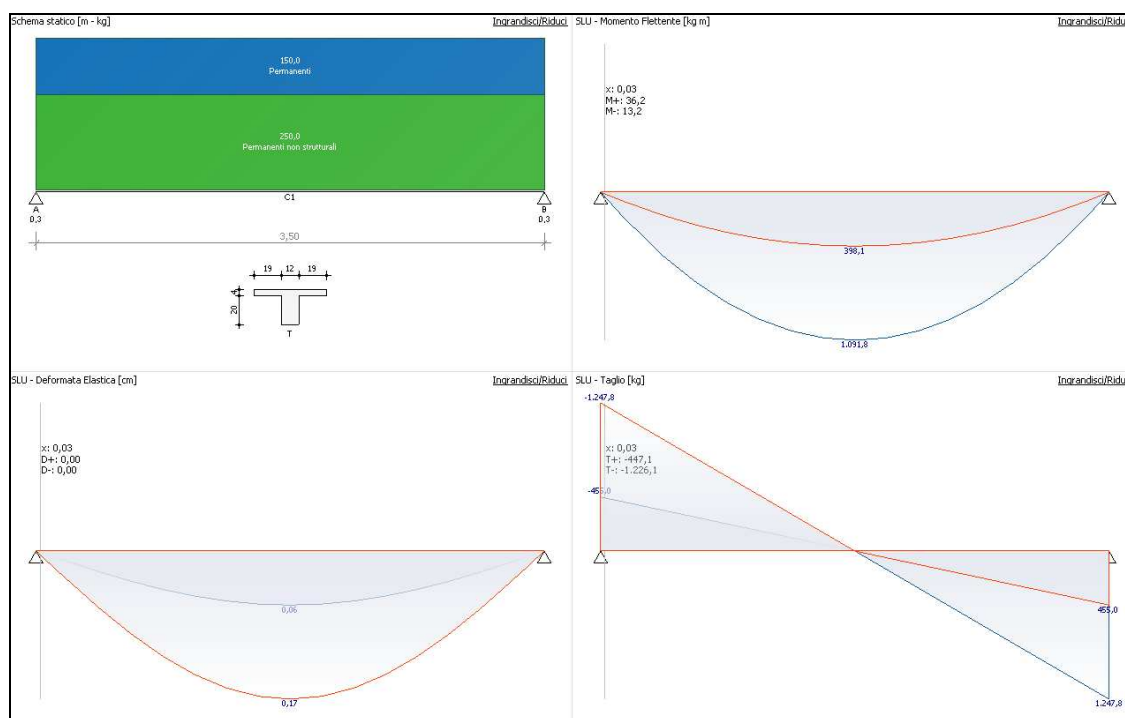
L'area di influenza, corrispondente all'interasse dei travetti, risulta pari a $i = 0,5$ m.

Analisi dei carichi:

Si considerano i seguenti carichi:

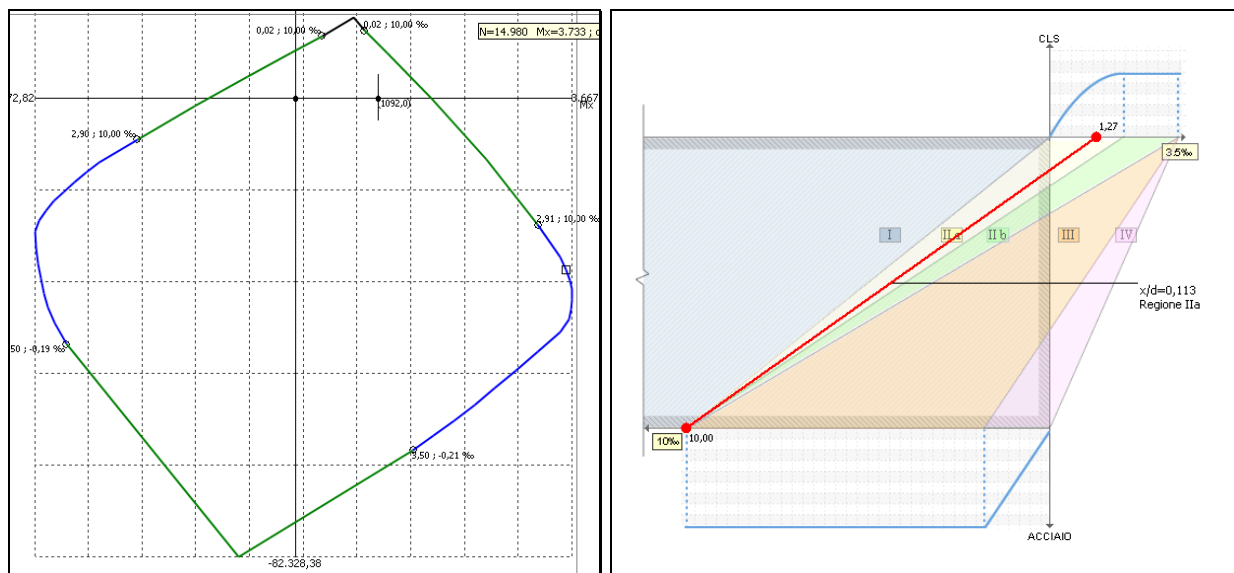
- peso proprio;
- carichi permanenti: $2500 \times 0,02$ (pavimento) + $1800 \times 0,08$ (massetto) + $1000 \times 0,06$ (massetto alleggerito) = $50 + 144 + 60 = 254$ kg/mq. Si considera comunque un carico pari a 300 kg/mq;
- carichi accidentali 500 kg/mq.

Si mostrano di seguito i diagrammi delle sollecitazioni (SLU):



Si mostrano di seguito le verifiche tramite il diagramma M-N e il campo riferito alla sezione.

Verifica a momento positivo c.s. 1.64 (2 Fi 12 inf + 3 Fi 8 sup.).



Verifica a taglio:

| travetto | | | | |
|-----------------------------|--------|-------------------|---|--------------|
| $V_{Sd,max}$ | 12480 | N | | |
| R_{ck} | 35 | N/mm ² | | |
| f_{cd} | 18,16 | N/mm ² | | |
| f_{ctd} | 1,26 | N/mm ² | | |
| FeB 44k | | | | |
| f_{yk} | 430 | N/mm ² | | |
| f_{sd} | 373,91 | N/mm ² | | |
| B | 120 | mm | | |
| H | 220 | mm | | |
| c | 40 | mm | | |
| n | 2 | | | |
| a_l | 12 | mm | | |
| d | 180 | mm | | |
| r | 1,4 | | | |
| a_l | 0,0105 | | | |
| a_l | 1 | | | |
| Verifica sezione non armata | | | | |
| $V_{rd,u}$ | 14766 | N | > | 12480 N |
| | | | | C.S. 1,18 OK |

F. Opere di sostegno

In questo capitolo si valutano i carichi agenti e le sollecitazioni che ne derivano dovute alla spinta delle terre ed all'azione di eventuali carichi variabili presenti a tergo dei manufatti in c.a di nuova realizzazione.

Si considererà anche il caso legato alla presenza della pensilina metallica.

Si ipotizza un terreno con γ pari a 18 kN/m^3 , un carico variabile di entità pari a 10 kN/m^2 oltre ai carichi derivanti dalla struttura metallica.

Si ipotizza un coefficiente di spinta attiva k_a pari a 0,33

Il muro ha un'altezza massima per la parte in elevazione di 1.60 m con spessore di 0,5m ed una fondazione larga 1.0 m e di spessore 0,30m.

F.1.1. Verifiche globali

Il momento ribaltante è pari a:

$$M_{\text{rib}} = (10 \cdot 0.33 \cdot 1.9) \cdot 1.9/2 + (18 \cdot 1.9 \cdot 0.33) \cdot 1.9/2 \cdot 1.9/3 = 12.75 \text{ kNm}$$

Il momento stabilizzante è pari a:

$$M_{\text{stab}} = (1.0 \cdot 0.3 \cdot 25) \cdot 1.0/2 + (0.5 \cdot 1.6 \cdot 25) \cdot 0.35 + (0.4 \cdot 1.6 \cdot 18) \cdot (0.6 + 0.2) = 19.966 \text{ kNm}$$

$$F.S. = 19.966/12.75 = 1.566 > 1.50$$

$$F_{sd} = (3.3 \cdot 1.9) + (11.3 + 1.9)/2 = 17.00 \text{ kN}$$

$$N_{sd} = 1.0 \cdot 0.3 \cdot 25 + 0.5 \cdot 1.6 \cdot 25 + 0.4 \cdot 1.6 \cdot 18 = 39.02 \text{ kN}$$

$$T_{gf} = 0.6$$

$$F.S. = 39.02 \cdot 0.6/17 = 1.38 > 1.30$$

Si valutano ora le tensioni sul terreno:

$$e_y = 12.75/39.02 = 0.326$$

$$a' = 3 \cdot (0.5 - 0.326) = 0.522$$

$$\sigma_{\text{max}} = 2 \cdot 39.02 / (52.2 \cdot 100) = 1.49 \text{ kg/cm}^2.$$

Nel caso in cui sia presente lo scarico della pensilina si ha, supponendo una diffusione su $B = 1.9 \cdot 2 = 3.8 \text{ m}$,

$$N_{add} = 36/3.8 = 9.5 \text{ kN}$$

$$M_{add} = 9.5 \cdot 0.15 = 1.43 \text{ kNm}$$

Quindi:

$$N = 39.02 + 9.5 = 48.52 \text{ kN}$$

$$M = 12.75 + 1.43 = 14.18 \text{ kNm}$$

$$e_y = 14.18/48.52 = 0.3$$

$$a' = 3 \cdot (0.5 - 0.3) = 0.6 \text{ m}$$

$$\sigma_{\max} = 2 \cdot 4852 / (60.0 \cdot 100) = \mathbf{1.62 \text{ kg/cm}^2}.$$

I valori di pressione ottenuti risultano essere assolutamente compatibili.

F.1.2. Verifiche strutturali

Le sollecitazioni flettenti e taglianti alla base della mensola, considerando una profondità di 1.0m, sono pari a:

condizioni di esercizio:

$$M = 0.5 \cdot 18 \cdot 1.6^2 \cdot 0.33 \cdot 1.6/3 + 10 \cdot 0.33 \cdot 1.6 \cdot 1.6/2 = 8.28 \text{ kNm}$$

$$V = 0.5 \cdot 18 \cdot 1.6 \cdot 0.33 + 10 \cdot 0.33 \cdot 1.6 = 12.88 \text{ kN}$$

$$B = 100 \text{ cm}$$

$$H = 50 \text{ cm}$$

$$c = c' = 4 \text{ cm}$$

$$A_s = A'_s = 5\phi 12 \text{ (/20cm)}$$

$$\sigma_c = 0.45 \text{ N/mm}^2$$

$$\sigma_s = 33.8 \text{ N/mm}^2$$

stato limite ultimo:

$$M = 1.4 \cdot 0.5 \cdot 18 \cdot 1.6^2 \cdot 0.33 \cdot 1.6/3 + 1.5 \cdot 10 \cdot 0.33 \cdot 1.6 \cdot 1.6/2 = 12.01 \text{ kNm}$$

$$V = 1.4 \cdot 0.5 \cdot 18 \cdot 1.6 \cdot 0.33 + 1.5 \cdot 10 \cdot 0.33 \cdot 1.6 = 14.57 \text{ kN}$$

$$B = 100 \text{ cm}$$

$$H = 50 \text{ cm}$$

$$c = c' = 4 \text{ cm}$$

$$A_s = A'_s = 5\phi 12 \text{ (/20cm)}$$

$$c.s = 7.89$$

la verifica a taglio è abbondantemente soddisfatta, non serve armare a taglio.

G. Allegati

G.1. Tipologia tubolari

A titolo esemplificativo si riporta una delle tante tipologie commerciali di profili tubolari.

G.2. Allegati numerici

A completamento delle informazioni riportate nel corpo principale della presente relazione di calcolo, si presentano dunque di seguito i files di input ed output utili a comprendere in maniera dettagliata le caratteristiche del modello numerico ed i risultati da esso ottenuti.

G.2.1. Input

/ UNITS

| | |
|-----------------|-----|
| LengthUnit | mm |
| MassUnit | kg |
| EnergyUnit | J |
| PressureUnit | MPa |
| ForceUnit | N |
| TemperatureUnit | C |

/ GROUP DEFINITIONS

| | | | |
|-------|---|----------|------------------------|
| Group | 1 | 16711680 | "\\Model" |
| Group | 2 | 3355647 | "Principali" |
| Group | 3 | 3407692 | "Secondarie" |
| Group | 6 | 16724966 | "Secondarie\\sbalzo" |
| Group | 7 | 6750003 | "Secondarie\\interne" |
| Group | 8 | 3375359 | "Secondarie\\appoggio" |
| Group | 9 | 16724812 | "Secondarie\\sbalzi" |
| Group | 4 | 16744576 | "Forchette" |
| Group | 5 | 16757299 | "Load patches" |

/ FREEDOM CASE DEFINITIONS

| | | | | |
|-------------|---|---|---|------------------|
| FreedomCase | 1 | 0 | 1 | "Freedom Case 1" |
|-------------|---|---|---|------------------|

/ LOAD CASE DEFINITIONS

| | | | |
|-----------|---|----------------------|---------------|
| LoadCase | 1 | 1 | "Pesi propri" |
| Gravity | 3 | -9.80665000000000E+3 | |
| LCInclude | 1 | | |
| LoadCase | 2 | 0 | "Perm port" |
| LCInclude | 3 | | |
| LoadCase | 3 | 0 | "Variabile" |
| LCInclude | 3 | | |

/ LOAD CASE COMBINATIONS

| | | |
|---------------------|---------------------|-----------|
| LoadCaseCombination | 4 | "SLE_g" |
| 1 | 1.00000000000000E+0 | |
| 2 | 1.00000000000000E+0 | |
| LoadCaseCombination | 5 | "SLE_q" |
| 3 | 1.00000000000000E+0 | |
| LoadCaseCombination | 6 | "SLE_tot" |
| 1 | 1.00000000000000E+0 | |
| 2 | 1.00000000000000E+0 | |
| 3 | 1.00000000000000E+0 | |
| LoadCaseCombination | 7 | "SLU" |
| 1 | 1.30000000000000E+0 | |

2 1.50000000000000E+0
3 1.50000000000000E+0

/

COORDINATE SYSTEM DEFINITIONS

CoordSys 1 "Global XYZ" GlobalXYZ

/

NODE COORDINATES

| | | | | | |
|------|----|---|---------------------|---------------------|----------------------|
| Node | 1 | 0 | 4.30000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 2 | 0 | 5.45000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 3 | 0 | 6.65000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 4 | 0 | 7.85000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 5 | 0 | 9.05000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 6 | 0 | 1.02500000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 7 | 0 | 1.14500000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 8 | 0 | 1.26500000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 9 | 0 | 4.30000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 10 | 0 | 5.45000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 11 | 0 | 6.65000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 12 | 0 | 7.85000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 13 | 0 | 9.05000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 14 | 0 | 1.02500000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 15 | 0 | 1.14500000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 16 | 0 | 1.26500000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 17 | 0 | 1.32500000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 18 | 0 | 1.32500000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 19 | 0 | 7.25000000000000E+3 | 1.00000000000000E+2 | -3.68000000000000E+3 |
| Node | 20 | 0 | 1.08500000000000E+4 | 1.00000000000000E+2 | -3.68000000000000E+3 |
| Node | 21 | 0 | 7.25000000000000E+3 | 6.40000000000000E+3 | -3.68000000000000E+3 |
| Node | 22 | 0 | 1.08500000000000E+4 | 6.40000000000000E+3 | -3.68000000000000E+3 |
| Node | 23 | 0 | 4.30000000000000E+3 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 24 | 0 | 4.30000000000000E+3 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 25 | 0 | 4.30000000000000E+3 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 26 | 0 | 4.30000000000000E+3 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 27 | 0 | 4.30000000000000E+3 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 28 | 0 | 4.30000000000000E+3 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 29 | 0 | 4.30000000000000E+3 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 30 | 0 | 4.30000000000000E+3 | 5.12000000000000E+3 | 0.00000000000000E+0 |
| Node | 31 | 0 | 4.30000000000000E+3 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 32 | 0 | 5.45000000000000E+3 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 33 | 0 | 5.45000000000000E+3 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 34 | 0 | 5.45000000000000E+3 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 35 | 0 | 5.45000000000000E+3 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 36 | 0 | 5.45000000000000E+3 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 37 | 0 | 5.45000000000000E+3 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 38 | 0 | 5.45000000000000E+3 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 39 | 0 | 5.45000000000000E+3 | 5.12000000000000E+3 | 0.00000000000000E+0 |
| Node | 40 | 0 | 5.45000000000000E+3 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 41 | 0 | 6.65000000000000E+3 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 42 | 0 | 6.65000000000000E+3 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 43 | 0 | 6.65000000000000E+3 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 44 | 0 | 6.65000000000000E+3 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 45 | 0 | 6.65000000000000E+3 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 46 | 0 | 6.65000000000000E+3 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 47 | 0 | 6.65000000000000E+3 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 48 | 0 | 6.65000000000000E+3 | 5.12000000000000E+3 | 0.00000000000000E+0 |
| Node | 49 | 0 | 6.65000000000000E+3 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 50 | 0 | 7.85000000000000E+3 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 51 | 0 | 7.85000000000000E+3 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 52 | 0 | 7.85000000000000E+3 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 53 | 0 | 7.85000000000000E+3 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 54 | 0 | 7.85000000000000E+3 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 55 | 0 | 7.85000000000000E+3 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 56 | 0 | 7.85000000000000E+3 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 57 | 0 | 7.85000000000000E+3 | 5.12000000000000E+3 | 0.00000000000000E+0 |
| Node | 58 | 0 | 7.85000000000000E+3 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 59 | 0 | 9.05000000000000E+3 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 60 | 0 | 9.05000000000000E+3 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 61 | 0 | 9.05000000000000E+3 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 62 | 0 | 9.05000000000000E+3 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 63 | 0 | 9.05000000000000E+3 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 64 | 0 | 9.05000000000000E+3 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 65 | 0 | 9.05000000000000E+3 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 66 | 0 | 9.05000000000000E+3 | 5.12000000000000E+3 | 0.00000000000000E+0 |

| | | | | | |
|------|-----|---|---------------------|----------------------|---------------------|
| Node | 67 | 0 | 9.05000000000000E+3 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 68 | 0 | 1.02500000000000E+4 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 69 | 0 | 1.02500000000000E+4 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 70 | 0 | 1.02500000000000E+4 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 71 | 0 | 1.02500000000000E+4 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 72 | 0 | 1.02500000000000E+4 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 73 | 0 | 1.02500000000000E+4 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 74 | 0 | 1.02500000000000E+4 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 75 | 0 | 1.02500000000000E+4 | 5.12000000000000E+3 | 0.00000000000000E+0 |
| Node | 76 | 0 | 1.02500000000000E+4 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 77 | 0 | 1.14500000000000E+4 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 78 | 0 | 1.14500000000000E+4 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 79 | 0 | 1.14500000000000E+4 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 80 | 0 | 1.14500000000000E+4 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 81 | 0 | 1.14500000000000E+4 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 82 | 0 | 1.14500000000000E+4 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 83 | 0 | 1.14500000000000E+4 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 84 | 0 | 1.14500000000000E+4 | 5.12000000000000E+3 | 0.00000000000000E+0 |
| Node | 85 | 0 | 1.14500000000000E+4 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 86 | 0 | 1.26500000000000E+4 | 6.40000000000000E+2 | 0.00000000000000E+0 |
| Node | 87 | 0 | 1.26500000000000E+4 | 1.28000000000000E+3 | 0.00000000000000E+0 |
| Node | 88 | 0 | 1.26500000000000E+4 | 1.92000000000000E+3 | 0.00000000000000E+0 |
| Node | 89 | 0 | 1.26500000000000E+4 | 2.56000000000000E+3 | 0.00000000000000E+0 |
| Node | 90 | 0 | 1.26500000000000E+4 | 3.20000000000000E+3 | 0.00000000000000E+0 |
| Node | 91 | 0 | 1.26500000000000E+4 | 3.84000000000000E+3 | 0.00000000000000E+0 |
| Node | 92 | 0 | 1.26500000000000E+4 | 4.48000000000000E+3 | 0.00000000000000E+0 |
| Node | 93 | 0 | 1.26500000000000E+4 | 5.12000000000000E+3 | 0.00000000000000E+0 |
| Node | 94 | 0 | 1.26500000000000E+4 | 5.76000000000000E+3 | 0.00000000000000E+0 |
| Node | 95 | 0 | 4.58750000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 96 | 0 | 4.87500000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 97 | 0 | 5.16250000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 98 | 0 | 5.75000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 99 | 0 | 6.05000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 100 | 0 | 6.35000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 101 | 0 | 6.95000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 102 | 0 | 7.25000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 103 | 0 | 7.55000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 104 | 0 | 8.33750000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 105 | 0 | 8.62500000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 106 | 0 | 8.91250000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 107 | 0 | 9.48750000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 108 | 0 | 9.77500000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 109 | 0 | 1.00625000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 110 | 0 | 1.06375000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 111 | 0 | 1.09250000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 112 | 0 | 1.12125000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 113 | 0 | 1.17875000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 114 | 0 | 1.20750000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 115 | 0 | 1.23625000000000E+4 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 116 | 0 | 4.58750000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 117 | 0 | 4.87500000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 118 | 0 | 5.16250000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 119 | 0 | 5.75000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 120 | 0 | 6.05000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 121 | 0 | 6.35000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 122 | 0 | 6.95000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 123 | 0 | 7.25000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 124 | 0 | 7.55000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 125 | 0 | 8.33750000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 126 | 0 | 8.62500000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 127 | 0 | 8.91250000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 128 | 0 | 9.48750000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 129 | 0 | 9.77500000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 130 | 0 | 1.00625000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 131 | 0 | 1.06375000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 132 | 0 | 1.09250000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 133 | 0 | 1.12125000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 134 | 0 | 1.17875000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 135 | 0 | 1.20750000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 136 | 0 | 1.23625000000000E+4 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 137 | 0 | 4.30000000000000E+3 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 138 | 0 | 5.45000000000000E+3 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 139 | 0 | 6.65000000000000E+3 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 140 | 0 | 7.85000000000000E+3 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 141 | 0 | 9.05000000000000E+3 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 142 | 0 | 1.02500000000000E+4 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 143 | 0 | 1.14500000000000E+4 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 144 | 0 | 1.26500000000000E+4 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 145 | 0 | 4.30000000000000E+3 | 6.75000000000000E+3 | 0.00000000000000E+0 |

| | | | | | |
|------|-----|---|---------------------|----------------------|---------------------|
| Node | 146 | 0 | 5.45000000000000E+3 | 6.75000000000000E+3 | 0.00000000000000E+0 |
| Node | 147 | 0 | 1.32500000000000E+4 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 148 | 0 | 4.00000000000000E+3 | 1.00000000000000E+2 | 0.00000000000000E+0 |
| Node | 149 | 0 | 4.00000000000000E+3 | 6.40000000000000E+3 | 0.00000000000000E+0 |
| Node | 150 | 0 | 4.00000000000000E+3 | -2.50000000000000E+2 | 0.00000000000000E+0 |
| Node | 151 | 0 | 4.00000000000000E+3 | 6.75000000000000E+3 | 0.00000000000000E+0 |

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/ BEAM ELEMENTS

| | | | | | | |
|------|----|---|---|---|-----|----|
| Beam | 1 | 0 | 7 | 2 | 31 | 9 |
| Beam | 2 | 0 | 8 | 2 | 40 | 10 |
| Beam | 3 | 0 | 7 | 2 | 49 | 11 |
| Beam | 4 | 0 | 7 | 2 | 58 | 12 |
| Beam | 5 | 0 | 8 | 2 | 67 | 13 |
| Beam | 6 | 0 | 7 | 2 | 76 | 14 |
| Beam | 7 | 0 | 7 | 2 | 85 | 15 |
| Beam | 8 | 0 | 8 | 2 | 94 | 16 |
| Beam | 9 | 0 | 2 | 1 | 97 | 2 |
| Beam | 10 | 0 | 2 | 1 | 100 | 3 |
| Beam | 11 | 0 | 2 | 1 | 103 | 4 |
| Beam | 12 | 0 | 2 | 1 | 106 | 5 |
| Beam | 13 | 0 | 2 | 1 | 109 | 6 |
| Beam | 14 | 0 | 2 | 1 | 112 | 7 |
| Beam | 15 | 0 | 2 | 1 | 115 | 8 |
| Beam | 16 | 0 | 2 | 1 | 118 | 10 |
| Beam | 17 | 0 | 2 | 1 | 121 | 11 |
| Beam | 18 | 0 | 2 | 1 | 124 | 12 |
| Beam | 19 | 0 | 2 | 1 | 127 | 13 |
| Beam | 20 | 0 | 2 | 1 | 130 | 14 |
| Beam | 21 | 0 | 2 | 1 | 133 | 15 |
| Beam | 22 | 0 | 2 | 1 | 136 | 16 |
| Beam | 23 | 0 | 2 | 1 | 8 | 17 |
| Beam | 24 | 0 | 2 | 1 | 16 | 18 |
| Beam | 25 | 0 | 2 | 1 | 148 | 1 |
| Beam | 26 | 0 | 2 | 1 | 149 | 9 |
| Beam | 27 | 0 | 4 | 3 | 19 | 2 |
| Beam | 28 | 0 | 4 | 3 | 19 | 5 |
| Beam | 29 | 0 | 4 | 3 | 20 | 5 |
| Beam | 30 | 0 | 4 | 3 | 20 | 8 |
| Beam | 31 | 0 | 4 | 3 | 21 | 10 |
| Beam | 32 | 0 | 4 | 3 | 21 | 13 |
| Beam | 33 | 0 | 4 | 3 | 22 | 13 |
| Beam | 34 | 0 | 4 | 3 | 22 | 16 |
| Beam | 35 | 0 | 7 | 2 | 1 | 23 |
| Beam | 36 | 0 | 7 | 2 | 23 | 24 |
| Beam | 37 | 0 | 7 | 2 | 24 | 25 |
| Beam | 38 | 0 | 7 | 2 | 25 | 26 |
| Beam | 39 | 0 | 7 | 2 | 26 | 27 |
| Beam | 40 | 0 | 7 | 2 | 27 | 28 |
| Beam | 41 | 0 | 7 | 2 | 28 | 29 |
| Beam | 42 | 0 | 7 | 2 | 29 | 30 |
| Beam | 43 | 0 | 7 | 2 | 30 | 31 |
| Beam | 44 | 0 | 8 | 2 | 2 | 32 |
| Beam | 45 | 0 | 8 | 2 | 32 | 33 |
| Beam | 46 | 0 | 8 | 2 | 33 | 34 |
| Beam | 47 | 0 | 8 | 2 | 34 | 35 |
| Beam | 48 | 0 | 8 | 2 | 35 | 36 |
| Beam | 49 | 0 | 8 | 2 | 36 | 37 |
| Beam | 50 | 0 | 8 | 2 | 37 | 38 |
| Beam | 51 | 0 | 8 | 2 | 38 | 39 |
| Beam | 52 | 0 | 8 | 2 | 39 | 40 |
| Beam | 53 | 0 | 7 | 2 | 3 | 41 |
| Beam | 54 | 0 | 7 | 2 | 41 | 42 |
| Beam | 55 | 0 | 7 | 2 | 42 | 43 |
| Beam | 56 | 0 | 7 | 2 | 43 | 44 |
| Beam | 57 | 0 | 7 | 2 | 44 | 45 |
| Beam | 58 | 0 | 7 | 2 | 45 | 46 |
| Beam | 59 | 0 | 7 | 2 | 46 | 47 |
| Beam | 60 | 0 | 7 | 2 | 47 | 48 |
| Beam | 61 | 0 | 7 | 2 | 48 | 49 |
| Beam | 62 | 0 | 7 | 2 | 4 | 50 |
| Beam | 63 | 0 | 7 | 2 | 50 | 51 |
| Beam | 64 | 0 | 7 | 2 | 51 | 52 |
| Beam | 65 | 0 | 7 | 2 | 52 | 53 |
| Beam | 66 | 0 | 7 | 2 | 53 | 54 |
| Beam | 67 | 0 | 7 | 2 | 54 | 55 |
| Beam | 68 | 0 | 7 | 2 | 55 | 56 |
| Beam | 69 | 0 | 7 | 2 | 56 | 57 |

| | | | | | | |
|------|-----|---|---|---|-----|-----|
| Beam | 70 | 0 | 7 | 2 | 57 | 58 |
| Beam | 71 | 0 | 8 | 2 | 5 | 59 |
| Beam | 72 | 0 | 8 | 2 | 59 | 60 |
| Beam | 73 | 0 | 8 | 2 | 60 | 61 |
| Beam | 74 | 0 | 8 | 2 | 61 | 62 |
| Beam | 75 | 0 | 8 | 2 | 62 | 63 |
| Beam | 76 | 0 | 8 | 2 | 63 | 64 |
| Beam | 77 | 0 | 8 | 2 | 64 | 65 |
| Beam | 78 | 0 | 8 | 2 | 65 | 66 |
| Beam | 79 | 0 | 8 | 2 | 66 | 67 |
| Beam | 80 | 0 | 7 | 2 | 6 | 68 |
| Beam | 81 | 0 | 7 | 2 | 68 | 69 |
| Beam | 82 | 0 | 7 | 2 | 69 | 70 |
| Beam | 83 | 0 | 7 | 2 | 70 | 71 |
| Beam | 84 | 0 | 7 | 2 | 71 | 72 |
| Beam | 85 | 0 | 7 | 2 | 72 | 73 |
| Beam | 86 | 0 | 7 | 2 | 73 | 74 |
| Beam | 87 | 0 | 7 | 2 | 74 | 75 |
| Beam | 88 | 0 | 7 | 2 | 75 | 76 |
| Beam | 89 | 0 | 7 | 2 | 7 | 77 |
| Beam | 90 | 0 | 7 | 2 | 77 | 78 |
| Beam | 91 | 0 | 7 | 2 | 78 | 79 |
| Beam | 92 | 0 | 7 | 2 | 79 | 80 |
| Beam | 93 | 0 | 7 | 2 | 80 | 81 |
| Beam | 94 | 0 | 7 | 2 | 81 | 82 |
| Beam | 95 | 0 | 7 | 2 | 82 | 83 |
| Beam | 96 | 0 | 7 | 2 | 83 | 84 |
| Beam | 97 | 0 | 7 | 2 | 84 | 85 |
| Beam | 98 | 0 | 8 | 2 | 8 | 86 |
| Beam | 99 | 0 | 8 | 2 | 86 | 87 |
| Beam | 100 | 0 | 8 | 2 | 87 | 88 |
| Beam | 101 | 0 | 8 | 2 | 88 | 89 |
| Beam | 102 | 0 | 8 | 2 | 89 | 90 |
| Beam | 103 | 0 | 8 | 2 | 90 | 91 |
| Beam | 104 | 0 | 8 | 2 | 91 | 92 |
| Beam | 105 | 0 | 8 | 2 | 92 | 93 |
| Beam | 106 | 0 | 8 | 2 | 93 | 94 |
| Beam | 107 | 0 | 2 | 1 | 1 | 95 |
| Beam | 108 | 0 | 2 | 1 | 95 | 96 |
| Beam | 109 | 0 | 2 | 1 | 96 | 97 |
| Beam | 110 | 0 | 2 | 1 | 2 | 98 |
| Beam | 111 | 0 | 2 | 1 | 98 | 99 |
| Beam | 112 | 0 | 2 | 1 | 99 | 100 |
| Beam | 113 | 0 | 2 | 1 | 3 | 101 |
| Beam | 114 | 0 | 2 | 1 | 101 | 102 |
| Beam | 115 | 0 | 2 | 1 | 102 | 103 |
| Beam | 116 | 0 | 2 | 1 | 4 | 104 |
| Beam | 117 | 0 | 2 | 1 | 104 | 105 |
| Beam | 118 | 0 | 2 | 1 | 105 | 106 |
| Beam | 119 | 0 | 2 | 1 | 5 | 107 |
| Beam | 120 | 0 | 2 | 1 | 107 | 108 |
| Beam | 121 | 0 | 2 | 1 | 108 | 109 |
| Beam | 122 | 0 | 2 | 1 | 6 | 110 |
| Beam | 123 | 0 | 2 | 1 | 110 | 111 |
| Beam | 124 | 0 | 2 | 1 | 111 | 112 |
| Beam | 125 | 0 | 2 | 1 | 7 | 113 |
| Beam | 126 | 0 | 2 | 1 | 113 | 114 |
| Beam | 127 | 0 | 2 | 1 | 114 | 115 |
| Beam | 128 | 0 | 2 | 1 | 9 | 116 |
| Beam | 129 | 0 | 2 | 1 | 116 | 117 |
| Beam | 130 | 0 | 2 | 1 | 117 | 118 |
| Beam | 131 | 0 | 2 | 1 | 10 | 119 |
| Beam | 132 | 0 | 2 | 1 | 119 | 120 |
| Beam | 133 | 0 | 2 | 1 | 120 | 121 |
| Beam | 134 | 0 | 2 | 1 | 11 | 122 |
| Beam | 135 | 0 | 2 | 1 | 122 | 123 |
| Beam | 136 | 0 | 2 | 1 | 123 | 124 |
| Beam | 137 | 0 | 2 | 1 | 12 | 125 |
| Beam | 138 | 0 | 2 | 1 | 125 | 126 |
| Beam | 139 | 0 | 2 | 1 | 126 | 127 |
| Beam | 140 | 0 | 2 | 1 | 13 | 128 |
| Beam | 141 | 0 | 2 | 1 | 128 | 129 |
| Beam | 142 | 0 | 2 | 1 | 129 | 130 |
| Beam | 143 | 0 | 2 | 1 | 14 | 131 |
| Beam | 144 | 0 | 2 | 1 | 131 | 132 |
| Beam | 145 | 0 | 2 | 1 | 132 | 133 |
| Beam | 146 | 0 | 2 | 1 | 15 | 134 |
| Beam | 147 | 0 | 2 | 1 | 134 | 135 |
| Beam | 148 | 0 | 2 | 1 | 135 | 136 |

| | | | | | | |
|------|-----|---|---|---|----|-----|
| Beam | 149 | 0 | 9 | 2 | 1 | 137 |
| Beam | 150 | 0 | 9 | 2 | 2 | 138 |
| Beam | 151 | 0 | 9 | 2 | 3 | 139 |
| Beam | 152 | 0 | 9 | 2 | 4 | 140 |
| Beam | 153 | 0 | 9 | 2 | 5 | 141 |
| Beam | 154 | 0 | 9 | 2 | 6 | 142 |
| Beam | 155 | 0 | 9 | 2 | 7 | 143 |
| Beam | 156 | 0 | 9 | 2 | 8 | 144 |
| Beam | 157 | 0 | 9 | 2 | 9 | 145 |
| Beam | 158 | 0 | 9 | 2 | 10 | 146 |

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/ BEAM ANGLES

| | | |
|---------|----|----------------------|
| BmAngle | 1 | 9.00000000000000E+1 |
| BmAngle | 2 | 9.00000000000000E+1 |
| BmAngle | 3 | 9.00000000000000E+1 |
| BmAngle | 4 | 9.00000000000000E+1 |
| BmAngle | 5 | 9.00000000000000E+1 |
| BmAngle | 6 | 9.00000000000000E+1 |
| BmAngle | 7 | 9.00000000000000E+1 |
| BmAngle | 8 | 9.00000000000000E+1 |
| BmAngle | 9 | 9.00000000000000E+1 |
| BmAngle | 10 | 9.00000000000000E+1 |
| BmAngle | 11 | 9.00000000000000E+1 |
| BmAngle | 12 | 9.00000000000000E+1 |
| BmAngle | 13 | 9.00000000000000E+1 |
| BmAngle | 14 | 9.00000000000000E+1 |
| BmAngle | 15 | 9.00000000000000E+1 |
| BmAngle | 16 | 9.00000000000000E+1 |
| BmAngle | 17 | 9.00000000000000E+1 |
| BmAngle | 18 | 9.00000000000000E+1 |
| BmAngle | 19 | 9.00000000000000E+1 |
| BmAngle | 20 | 9.00000000000000E+1 |
| BmAngle | 21 | 9.00000000000000E+1 |
| BmAngle | 22 | 9.00000000000000E+1 |
| BmAngle | 23 | 9.00000000000000E+1 |
| BmAngle | 24 | 9.00000000000000E+1 |
| BmAngle | 25 | 9.00000000000000E+1 |
| BmAngle | 26 | 9.00000000000000E+1 |
| BmAngle | 27 | 9.00000000000000E+1 |
| BmAngle | 28 | -9.00000000000000E+1 |
| BmAngle | 29 | 9.00000000000000E+1 |
| BmAngle | 30 | -9.00000000000000E+1 |
| BmAngle | 31 | 9.00000000000000E+1 |
| BmAngle | 32 | -9.00000000000000E+1 |
| BmAngle | 33 | 9.00000000000000E+1 |
| BmAngle | 34 | -9.00000000000000E+1 |
| BmAngle | 35 | 9.00000000000000E+1 |
| BmAngle | 36 | 9.00000000000000E+1 |
| BmAngle | 37 | 9.00000000000000E+1 |
| BmAngle | 38 | 9.00000000000000E+1 |
| BmAngle | 39 | 9.00000000000000E+1 |
| BmAngle | 40 | 9.00000000000000E+1 |
| BmAngle | 41 | 9.00000000000000E+1 |
| BmAngle | 42 | 9.00000000000000E+1 |
| BmAngle | 43 | 9.00000000000000E+1 |
| BmAngle | 44 | 9.00000000000000E+1 |
| BmAngle | 45 | 9.00000000000000E+1 |
| BmAngle | 46 | 9.00000000000000E+1 |
| BmAngle | 47 | 9.00000000000000E+1 |
| BmAngle | 48 | 9.00000000000000E+1 |
| BmAngle | 49 | 9.00000000000000E+1 |
| BmAngle | 50 | 9.00000000000000E+1 |
| BmAngle | 51 | 9.00000000000000E+1 |
| BmAngle | 52 | 9.00000000000000E+1 |
| BmAngle | 53 | 9.00000000000000E+1 |
| BmAngle | 54 | 9.00000000000000E+1 |
| BmAngle | 55 | 9.00000000000000E+1 |
| BmAngle | 56 | 9.00000000000000E+1 |
| BmAngle | 57 | 9.00000000000000E+1 |
| BmAngle | 58 | 9.00000000000000E+1 |
| BmAngle | 59 | 9.00000000000000E+1 |
| BmAngle | 60 | 9.00000000000000E+1 |
| BmAngle | 61 | 9.00000000000000E+1 |
| BmAngle | 62 | 9.00000000000000E+1 |
| BmAngle | 63 | 9.00000000000000E+1 |
| BmAngle | 64 | 9.00000000000000E+1 |
| BmAngle | 65 | 9.00000000000000E+1 |

| | | |
|---------|-----|---------------------|
| BmAngle | 66 | 9.00000000000000E+1 |
| BmAngle | 67 | 9.00000000000000E+1 |
| BmAngle | 68 | 9.00000000000000E+1 |
| BmAngle | 69 | 9.00000000000000E+1 |
| BmAngle | 70 | 9.00000000000000E+1 |
| BmAngle | 71 | 9.00000000000000E+1 |
| BmAngle | 72 | 9.00000000000000E+1 |
| BmAngle | 73 | 9.00000000000000E+1 |
| BmAngle | 74 | 9.00000000000000E+1 |
| BmAngle | 75 | 9.00000000000000E+1 |
| BmAngle | 76 | 9.00000000000000E+1 |
| BmAngle | 77 | 9.00000000000000E+1 |
| BmAngle | 78 | 9.00000000000000E+1 |
| BmAngle | 79 | 9.00000000000000E+1 |
| BmAngle | 80 | 9.00000000000000E+1 |
| BmAngle | 81 | 9.00000000000000E+1 |
| BmAngle | 82 | 9.00000000000000E+1 |
| BmAngle | 83 | 9.00000000000000E+1 |
| BmAngle | 84 | 9.00000000000000E+1 |
| BmAngle | 85 | 9.00000000000000E+1 |
| BmAngle | 86 | 9.00000000000000E+1 |
| BmAngle | 87 | 9.00000000000000E+1 |
| BmAngle | 88 | 9.00000000000000E+1 |
| BmAngle | 89 | 9.00000000000000E+1 |
| BmAngle | 90 | 9.00000000000000E+1 |
| BmAngle | 91 | 9.00000000000000E+1 |
| BmAngle | 92 | 9.00000000000000E+1 |
| BmAngle | 93 | 9.00000000000000E+1 |
| BmAngle | 94 | 9.00000000000000E+1 |
| BmAngle | 95 | 9.00000000000000E+1 |
| BmAngle | 96 | 9.00000000000000E+1 |
| BmAngle | 97 | 9.00000000000000E+1 |
| BmAngle | 98 | 9.00000000000000E+1 |
| BmAngle | 99 | 9.00000000000000E+1 |
| BmAngle | 100 | 9.00000000000000E+1 |
| BmAngle | 101 | 9.00000000000000E+1 |
| BmAngle | 102 | 9.00000000000000E+1 |
| BmAngle | 103 | 9.00000000000000E+1 |
| BmAngle | 104 | 9.00000000000000E+1 |
| BmAngle | 105 | 9.00000000000000E+1 |
| BmAngle | 106 | 9.00000000000000E+1 |
| BmAngle | 107 | 9.00000000000000E+1 |
| BmAngle | 108 | 9.00000000000000E+1 |
| BmAngle | 109 | 9.00000000000000E+1 |
| BmAngle | 110 | 9.00000000000000E+1 |
| BmAngle | 111 | 9.00000000000000E+1 |
| BmAngle | 112 | 9.00000000000000E+1 |
| BmAngle | 113 | 9.00000000000000E+1 |
| BmAngle | 114 | 9.00000000000000E+1 |
| BmAngle | 115 | 9.00000000000000E+1 |
| BmAngle | 116 | 9.00000000000000E+1 |
| BmAngle | 117 | 9.00000000000000E+1 |
| BmAngle | 118 | 9.00000000000000E+1 |
| BmAngle | 119 | 9.00000000000000E+1 |
| BmAngle | 120 | 9.00000000000000E+1 |
| BmAngle | 121 | 9.00000000000000E+1 |
| BmAngle | 122 | 9.00000000000000E+1 |
| BmAngle | 123 | 9.00000000000000E+1 |
| BmAngle | 124 | 9.00000000000000E+1 |
| BmAngle | 125 | 9.00000000000000E+1 |
| BmAngle | 126 | 9.00000000000000E+1 |
| BmAngle | 127 | 9.00000000000000E+1 |
| BmAngle | 128 | 9.00000000000000E+1 |
| BmAngle | 129 | 9.00000000000000E+1 |
| BmAngle | 130 | 9.00000000000000E+1 |
| BmAngle | 131 | 9.00000000000000E+1 |
| BmAngle | 132 | 9.00000000000000E+1 |
| BmAngle | 133 | 9.00000000000000E+1 |
| BmAngle | 134 | 9.00000000000000E+1 |
| BmAngle | 135 | 9.00000000000000E+1 |
| BmAngle | 136 | 9.00000000000000E+1 |
| BmAngle | 137 | 9.00000000000000E+1 |
| BmAngle | 138 | 9.00000000000000E+1 |
| BmAngle | 139 | 9.00000000000000E+1 |
| BmAngle | 140 | 9.00000000000000E+1 |
| BmAngle | 141 | 9.00000000000000E+1 |
| BmAngle | 142 | 9.00000000000000E+1 |
| BmAngle | 143 | 9.00000000000000E+1 |
| BmAngle | 144 | 9.00000000000000E+1 |

| | | |
|---------|-----|----------------------|
| BmAngle | 145 | 9.000000000000000E+1 |
| BmAngle | 146 | 9.000000000000000E+1 |
| BmAngle | 147 | 9.000000000000000E+1 |
| BmAngle | 148 | 9.000000000000000E+1 |
| BmAngle | 149 | 9.000000000000000E+1 |
| BmAngle | 150 | 9.000000000000000E+1 |
| BmAngle | 151 | 9.000000000000000E+1 |
| BmAngle | 152 | 9.000000000000000E+1 |
| BmAngle | 153 | 9.000000000000000E+1 |
| BmAngle | 154 | 9.000000000000000E+1 |
| BmAngle | 155 | 9.000000000000000E+1 |
| BmAngle | 156 | 9.000000000000000E+1 |
| BmAngle | 157 | 9.000000000000000E+1 |
| BmAngle | 158 | 9.000000000000000E+1 |

/

PLATE ELEMENTS

| | | | | | | | | |
|-------|----|---|---|---|-----|-----|-----|-----|
| Quad4 | 1 | 0 | 5 | 1 | 149 | 148 | 1 | 9 |
| Quad4 | 2 | 0 | 5 | 1 | 9 | 1 | 2 | 10 |
| Quad4 | 3 | 0 | 5 | 1 | 10 | 2 | 3 | 11 |
| Quad4 | 4 | 0 | 5 | 1 | 11 | 3 | 4 | 12 |
| Quad4 | 5 | 0 | 5 | 1 | 12 | 4 | 5 | 13 |
| Quad4 | 6 | 0 | 5 | 1 | 13 | 5 | 6 | 14 |
| Quad4 | 7 | 0 | 5 | 1 | 14 | 6 | 7 | 15 |
| Quad4 | 8 | 0 | 5 | 1 | 15 | 7 | 8 | 16 |
| Quad4 | 9 | 0 | 5 | 1 | 16 | 8 | 17 | 18 |
| Quad4 | 10 | 0 | 1 | 1 | 1 | 137 | 138 | 2 |
| Quad4 | 11 | 0 | 1 | 1 | 145 | 9 | 10 | 146 |
| Quad4 | 12 | 0 | 1 | 1 | 2 | 138 | 139 | 3 |
| Quad4 | 13 | 0 | 1 | 1 | 3 | 139 | 140 | 4 |
| Quad4 | 14 | 0 | 1 | 1 | 4 | 140 | 141 | 5 |
| Quad4 | 15 | 0 | 1 | 1 | 5 | 141 | 142 | 6 |
| Quad4 | 16 | 0 | 1 | 1 | 6 | 142 | 143 | 7 |
| Quad4 | 17 | 0 | 1 | 1 | 7 | 143 | 144 | 8 |
| Quad4 | 18 | 0 | 1 | 1 | 8 | 144 | 147 | 17 |
| Quad4 | 19 | 0 | 1 | 1 | 148 | 150 | 137 | 1 |
| Quad4 | 20 | 0 | 1 | 1 | 151 | 149 | 9 | 145 |

/

PLATE PATCH TYPES

| | | | | | | | |
|-------------|----|---|---|----------------------|----------------------|----------------------|----------------------|
| PIPatchType | 1 | 3 | 4 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 2 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 3 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 4 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 5 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 6 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 7 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 8 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 9 | 3 | 1 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 10 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 11 | 2 | 8 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 12 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 13 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 14 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 15 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 16 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 17 | 2 | 2 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 18 | 3 | 1 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 19 | 3 | 4 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |
| PIPatchType | 20 | 3 | 4 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 | 0.000000000000000E+0 |

/

NODE RESTRAINTS (ROTATION AS RADIAN)

/ Freedom Case 1

| | | | | |
|-----------|---|----|---|-------------------|
| NdFreedom | 1 | 11 | 1 | DY |
| NdFreedom | 1 | 13 | 1 | DY |
| NdFreedom | 1 | 15 | 1 | DY |
| NdFreedom | 1 | 17 | 1 | DX |
| NdFreedom | 1 | 18 | 1 | DX |
| NdFreedom | 1 | 19 | 1 | DX DY DZ RX RY RZ |
| NdFreedom | 1 | 20 | 1 | DX DY DZ RX RY RZ |
| NdFreedom | 1 | 21 | 1 | DX DY DZ RX RY RZ |
| NdFreedom | 1 | 22 | 1 | DX DY DZ RX RY RZ |

/

PLATE FACE GLOBAL LOADS

/ Perm port

| | | | | | |
|--------------|---|----|---------------------|---------------------|----------------------|
| PIGlobalLoad | 2 | 1 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 2 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 3 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 4 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 5 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 6 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 7 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 8 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 9 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 10 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 11 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 12 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 13 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 14 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 15 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 16 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 17 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 18 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 19 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |
| PIGlobalLoad | 2 | 20 | 0.00000000000000E+0 | 0.00000000000000E+0 | -3.00000000000000E-4 |

/ PLATE FACE GLOBAL LOADS

/ Variabile

| | | | | | |
|--------------|---|----|---------------------|---------------------|----------------------|
| PIGlobalLoad | 3 | 1 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 2 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 3 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 4 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 5 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 6 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 7 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 8 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 9 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 10 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 11 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 12 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 13 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 14 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 15 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 16 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 17 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 18 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 19 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |
| PIGlobalLoad | 3 | 20 | 0.00000000000000E+0 | 0.00000000000000E+0 | -1.20000000000000E-3 |

/ BEAM PROPERTIES

| | | | |
|------------------|---|---------------------|--------------|
| BeamProp | 1 | 3355647 | "Principali" |
| MaterialName | | | "Acciaio" |
| Modulus | | 2.10000000000000E+5 | |
| ShearMod | | 8.00000000000000E+4 | |
| Poisson | | 3.00000000000000E-1 | |
| UsePoisson | | TRUE | |
| Density | | 9.03000000000000E-6 | |
| ThermalCond | | 5.40000000000000E-2 | |
| SpecificHeat | | 4.65000000000000E+2 | |
| InstantAlpha | | FALSE | |
| Area | | 5.60800000000000E+3 | |
| MomentI11 | | 2.72821093333300E+7 | |
| MomentI22 | | 6.70142933333300E+6 | |
| MomentJ | | 1.00000000000000E+1 | |
| SectionType | | LipChannel | |
| B | | 7.00000000000000E+1 | |
| D | | 1.80000000000000E+2 | |
| T1 | | 1.10000000000000E+1 | |
| T2 | | 8.00000000000000E+0 | |
| G1 | | 1.20000000000000E+1 | |
| MT | | 3 | |
| CT | | FALSE | |
| TimeDependentMod | | Elastic | |
| UseMomCurv | | FALSE | |
| NonLinType | | Elasticplastic | |
| Hardening | | Isotropic | |
| BeamProp | 2 | 16737843 | "Secondarie" |
| MaterialName | | | "Acciaio" |
| Modulus | | 2.10000000000000E+5 | |
| ShearMod | | 8.00000000000000E+4 | |

Poisson 3.00000000000000E-1
UsePoisson TRUE
Density 9.03000000000000E-6
ThermalCond 5.40000000000000E-2
SpecificHeat 4.65000000000000E+2
InstantAlpha FALSE
Area 3.40800000000000E+3
MomentI11 7.35033600000000E+6
MomentI22 2.85588800000000E+6
MomentJ 7.67840000000000E+4
SectionType LipChannel
B 5.50000000000000E+1
D 1.20000000000000E+2
T1 9.00000000000000E+0
T2 7.00000000000000E+0
G1 1.20000000000000E+1
MT 3
CT FALSE
TimeDependentMod Elastic
UseMomCurv FALSE
NonLinType Elasticplastic
Hardening Isotropic

TrussProp 3 3407692 "Forcelle"
MaterialName "Acciaio - Modified"
Modulus 2.10000000000000E+5
ShearMod 8.00000000000000E+4
Poisson 3.00000000000000E-1
UsePoisson TRUE
Density 9.03000000000000E-6
ThermalCond 5.40000000000000E-2
SpecificHeat 4.65000000000000E+2
InstantAlpha FALSE
Area 8.62555678969600E+2
MomentJ 1.58966423967100E+6
SectionType HollowRound
D 8.90000000000000E+1
T 3.20000000000000E+0
NonLinType Elasticplastic
Hardening Isotropic

/ PLATE PROPERTIES

PatchPlateProp 1 16737843 "Load patch"
PatchTol 1.00000000000000E-4

/ BRICK PROPERTIES

BrickProp 1 16737843 "Brick Property 1"
MaterialName "Unknown Material"
InstantAlpha FALSE
TimeDependentMod Elastic
UseBubbleFunction TRUE
NonLinType Elasticplastic
YieldCriterion VonMises

/ LINEAR STATIC SOLVER DATA

LoadFreedomSetLSA 1 ON
1 2 3

/ LINEAR BUCKLING SOLVER DATA

BuckNumModes 4
BuckShift 0.00000000000000E+0

/ LOAD INFLUENCE SOLVER DATA

LoadFreedomSetLIA 1 ON
1

/ NATURAL FREQUENCY SOLVER DATA

FreqNumModes 4
FreqShift 0.00000000000000E+0
FreqIncludeNSMass 1 2 3
FreqModeParticipation FALSE
0.00000000000000E+0 0.00000000000000E+0 0.00000000000000E+0
0.00000000000000E+0 0.00000000000000E+0 0.00000000000000E+0
0.00000000000000E+0 0.00000000000000E+0 0.00000000000000E+0

/ HEAT SOLVER DATA

LoadSetHeat 1 2 3
HeatTempLoadCase 1
HeatNonlinear FALSE

/ GENERAL SOLVER DATA

SolverTempDependence None
SolverLoadCaseTempDependence 0
SolverActiveStage 0
SturmCheck FALSE
SolverFreedomCase 1
ModalLoadType BaseAcceleration
ModalNodeReactType Element
DampingType Rayleigh
RayleighFactors Frequency
1.00000000000000E+0 1.00000000000000E+1 1.00000000000000E+0 1.00000000000000E+1 1.00000000000000E-2
1.00000000000000E-2
NonLinearGeometry TRUE
NonLinearMaterial TRUE
IncludeCreep FALSE

SolverDefaultsGeneral
SolDefMatrixZeroDiag 1.00000000000000E-20
SolDefConjGradTol 1.00000000000000E-5
SolDefMaxConjGradIter 5000
SolDefMaxNumWarnings 10
SolDefWindowState 3
SolDefReducedLogFile TRUE
SolDefDoResidualsCheck FALSE
SolDefSuppressAllSingularities FALSE

SolverDefaultsElements
SolDefMinDimension 1.00000000000000E-6
SolDefMinInternalAngle 1.50000000000000E+1
SolDefZeroPointForce 1.00000000000000E-10
SolDefZeroDiagonal 1.00000000000000E-20
SolDefBeamMass Lumped
SolDefPlateMass Lumped
SolDefBrickMass Lumped
SolDefBeamLoads Consistent
SolDefPlateLoads Consistent

```
SolDefBeamSlices      5
SolDefIncludeLinkReactions  TRUE

SolverDefaultsDrilling
SolDefZeroTrans      1.000000000000000E-8
SolDefZeroRot        1.000000000000000E-4
SolDrillStiffMult     1.000000000000000E-3
SolDrillZeroEig       1.000000000000000E-6
SolDefMaxNormalsAngle 5.000000000000000E+0
SolDefForceDrillingCheck FALSE

SolverDefaultsIteration
SolDefZeroDisp      1.000000000000000E-5
SolDefDispNormTol   1.000000000000000E-4
SolDefResidualsNormTol 1.000000000000000E-3
SolDefNonlinIterLimit 20
SolDefAddIterations  TRUE
SolDefMaxUpdateInterval 5
SolDefMaxDispChange 1.000000000000000E+0
SolDefMaxResidualChange 1.000000000000000E-1
SolDefFormStiffnessMatrix 0
SolDefFormHeatStiffnessMatrix 0
SolDefHeatConvergenceTol 1.000000000000000E-5
SolDefHeatRelaxationFactor 6.666700000000000E-1

SolverDefaultsSubSteps
SolDefSubStepping    0
SolDefMinLoadReductionFactor 1.000000000000000E-1
SolDefMaxRot         3.000000000000000E+1
SolDefMaxDispRatio   1.000000000000000E-1
SolDefMinArcLength   1.000000000000000E-3
SolDefSaveSubIncrements FALSE
SolDefDynamicAutoStepping FALSE
SolDefMinTimeStep    1.000000000000000E-3

SolverDefaultsNonlinear
SolDefIncludeKG      TRUE
SolDefAutoScaleKg    TRUE
SolDefIgnoreCompressiveBeamKg FALSE
SolDefFiniteStrainDefinition Nominal
SolDefBeamLength     Initial
SolDefRatioMNL       5.000000000000000E-1
SolDefZeroContactFactor 1.000000000000000E-6
SolDefSlidingFriction 1.000000000000000E-15
SolDefFrictionCutoffStrain 1.000000000000000E-5
SolDefScaleSupports  TRUE

SolverDefaultsCreep
SolDefTimeStepParam  5.000000000000000E-1
SolDefMinViscoUnits  3
SolDefMaxViscoUnits   6
SolDefCurveFitTime   1.000000000000000E+4
SolDefCurveFitTimeUnit d
SolDefSpacingBias     5.000000000000000E-1

SolverDefaultsEigenvalue
SolDefZeroFreq       1.000000000000000E-6
SolDefZeroBuckEigenvalue 1.000000000000000E-10
SolDefExpandWorkingSetBy 6
SolDefEigIterLimit   20
SolDefEigIterTol     1.000000000000000E-5
SolDefEigAutoShift   FALSE

SolverDefaultsDynamics
SolDefWilsonTheta    1.370000000000000E+0
SolDefNewmarkBeta     5.000000000000000E-1
SolDefTransientMethod Newmark
SolDefExcludeMassComponents
SolDefIncludeRotMass  TRUE
```

/ RESULT OPTIONS

```
ResultOptions
ResOptsRotationUnit Degrees
ResOptsHRADisplacement Total
ResOptsHRAVelocity Total
ResOptsHRAAcceleration Relative
ResOptsBeamForceMoment Principal
```


ResOptsStageDisplacement BirthStage

G.2.2. Spostamenti nodali

Model: Modello FND4
Result type: Node displacement
Coordinate system: Global XYZ
Freedom case: 1: Freedom Case 1
Result cases: All
Groups: All
Properties: All

| | DX (mm) | DY (mm) | DZ (mm) | RX (deg) | RY (deg) | RZ (deg) | |
|------------------------------------|------------|------------|------------|-------------|-------------|-------------|--|
| Node 1: 1: Pesi propri | -0.0149 | 0.0000 | -0.4148 | -0.1147 | -0.0165 | 0.0001 | |
| Node 1: 2: Perm port | -0.0100 | 0.0000 | -0.2364 | -0.0998 | -0.0089 | 0.0001 | |
| Node 1: 3: Variabile | -0.0401 | -0.0002 | -0.9458 | -0.3991 | -0.0355 | 0.0004 | |
| Node 1: 4: SLE_g [Combination 1] | -0.0249 | -0.0001 | -0.6513 | -0.2145 | -0.0254 | 0.0002 | |
| Node 1: 5: SLE_q [Combination 2] | -0.0401 | -0.0002 | -0.9458 | -0.3991 | -0.0355 | 0.0004 | |
| Node 1: 6: SLE_tot [Combination 3] | -0.0650 | -0.0003 | -1.5971 | -0.6136 | -0.0609 | 0.0006 | |
| Node 1: 7: SLU [Combination 4] | -0.0945 | -0.0004 | -2.3127 | -0.8974 | -0.0880 | 0.0008 | |
| Node 2: 1: Pesi propri | -0.0149 | -0.0001 | -0.1463 | -0.1131 | -0.0070 | -0.0002 | |
| Node 2: 2: Perm port | -0.0100 | -0.0001 | -0.0990 | -0.1326 | -0.0028 | -0.0002 | |
| Node 2: 3: Variabile | -0.0401 | -0.0004 | -0.3958 | -0.5302 | -0.0112 | -0.0008 | |
| Node 2: 4: SLE_g [Combination 1] | -0.0249 | -0.0002 | -0.2453 | -0.2457 | -0.0098 | -0.0004 | |
| Node 2: 5: SLE_q [Combination 2] | -0.0401 | -0.0004 | -0.3958 | -0.5302 | -0.0112 | -0.0008 | |
| Node 2: 6: SLE_tot [Combination 3] | -0.0650 | -0.0005 | -0.6411 | -0.7759 | -0.0210 | -0.0012 | |
| Node 2: 7: SLU [Combination 4] | -0.0945 | -0.0008 | -0.9324 | -1.1412 | -0.0301 | -0.0018 | |
| Node 3: 1: Pesi propri | -0.0124 | -0.0001 | -0.1265 | -0.1151 | 0.0011 | 0.0000 | |
| Node 3: 2: Perm port | -0.0084 | -0.0002 | -0.1127 | -0.1373 | 0.0012 | 0.0001 | |
| Node 3: 3: Variabile | -0.0334 | -0.0006 | -0.4508 | -0.5492 | 0.0049 | 0.0002 | |
| Node 3: 4: SLE_g [Combination 1] | -0.0207 | -0.0003 | -0.2392 | -0.2524 | 0.0023 | 0.0001 | |
| Node 3: 5: SLE_q [Combination 2] | -0.0334 | -0.0006 | -0.4508 | -0.5492 | 0.0049 | 0.0002 | |
| Node 3: 6: SLE_tot [Combination 3] | -0.0542 | -0.0009 | -0.6900 | -0.8017 | 0.0072 | 0.0003 | |
| Node 3: 7: SLU [Combination 4] | -0.0788 | -0.0014 | -1.0097 | -1.1795 | 0.0106 | 0.0005 | |
| Node 4: 1: Pesi propri | -0.0099 | 0.0000 | -0.1063 | -0.1151 | -0.0031 | 0.0000 | |
| Node 4: 2: Perm port | -0.0067 | 0.0000 | -0.0931 | -0.1373 | -0.0029 | 0.0000 | |
| Node 4: 3: Variabile | -0.0267 | -0.0001 | -0.3726 | -0.5494 | -0.0118 | 0.0000 | |
| Node 4: 4: SLE_g [Combination 1] | -0.0166 | 0.0000 | -0.1994 | -0.2525 | -0.0060 | 0.0000 | |
| Node 4: 5: SLE_q [Combination 2] | -0.0267 | -0.0001 | -0.3726 | -0.5494 | -0.0118 | 0.0000 | |
| Node 4: 6: SLE_tot [Combination 3] | -0.0433 | -0.0001 | -0.5720 | -0.8019 | -0.0178 | 0.0000 | |
| Node 4: 7: SLU [Combination 4] | -0.0630 | -0.0001 | -0.8368 | -1.1798 | -0.0261 | -0.0001 | |
| Node 5: 1: Pesi propri | -0.0074 | 0.0000 | -0.0798 | -0.1124 | 0.0045 | 0.0000 | |
| Node 5: 2: Perm port | -0.0050 | 0.0000 | -0.0590 | -0.1341 | 0.0029 | 0.0000 | |
| Node 5: 3: Variabile | -0.0200 | -0.0001 | -0.2359 | -0.5365 | 0.0115 | 0.0000 | |
| Node 5: 4: SLE_g [Combination 1] | -0.0125 | 0.0000 | -0.1388 | -0.2466 | 0.0073 | 0.0000 | |
| Node 5: 5: SLE_q [Combination 2] | -0.0200 | -0.0001 | -0.2359 | -0.5365 | 0.0115 | 0.0000 | |
| Node 5: 6: SLE_tot [Combination 3] | -0.0325 | -0.0001 | -0.3747 | -0.7830 | 0.0188 | 0.0000 | |
| Node 5: 7: SLU [Combination 4] | -0.0472 | -0.0002 | -0.5460 | -1.1521 | 0.0273 | 0.0000 | |
| Node 6: 1: Pesi propri | -0.0051 | 0.0000 | -0.2698 | -0.1151 | 0.0087 | 0.0000 | |
| Node 6: 2: Perm port | -0.0034 | 0.0000 | -0.1984 | -0.1373 | 0.0066 | 0.0000 | |
| Node 6: 3: Variabile | -0.0137 | -0.0001 | -0.7937 | -0.5494 | 0.0263 | 0.0001 | |
| Node 6: 4: SLE_g [Combination 1] | -0.0085 | 0.0000 | -0.4682 | -0.2525 | 0.0152 | 0.0000 | |
| Node 6: 5: SLE_q [Combination 2] | -0.0137 | -0.0001 | -0.7937 | -0.5494 | 0.0263 | 0.0001 | |
| Node 6: 6: SLE_tot [Combination 3] | -0.0222 | -0.0002 | -1.2619 | -0.8018 | 0.0415 | 0.0001 | |
| Node 6: 7: SLU [Combination 4] | -0.0323 | -0.0002 | -1.8389 | -1.1797 | 0.0605 | 0.0001 | |
| Node 7: 1: Pesi propri | -0.0028 | -0.0003 | -0.3154 | -0.1151 | -0.0054 | -0.0001 | |
| Node 7: 2: Perm port | -0.0018 | -0.0003 | -0.2348 | -0.1373 | -0.0040 | -0.0001 | |
| Node 7: 3: Variabile | -0.0073 | -0.0012 | -0.9390 | -0.5492 | -0.0158 | -0.0004 | |
| Node 7: 4: SLE_g [Combination 1] | -0.0046 | -0.0006 | -0.5502 | -0.2524 | -0.0093 | -0.0002 | |
| Node 7: 5: SLE_q [Combination 2] | -0.0073 | -0.0012 | -0.9390 | -0.5492 | -0.0158 | -0.0004 | |
| Node 7: 6: SLE_tot [Combination 3] | -0.0119 | -0.0018 | -1.4892 | -0.8016 | -0.0251 | -0.0006 | |
| Node 7: 7: SLU [Combination 4] | -0.0174 | -0.0027 | -2.1707 | -1.1794 | -0.0366 | -0.0009 | |
| Node 8: 1: Pesi propri | -0.0004 | -0.0001 | -0.0847 | -0.1138 | -0.0138 | 0.0003 | |
| Node 8: 2: Perm port | -0.0003 | -0.0001 | -0.0607 | -0.1358 | -0.0105 | 0.0004 | |
| Node 8: 3: Variabile | -0.0010 | -0.0006 | -0.2430 | -0.5431 | -0.0420 | 0.0016 | |
| Node 8: 4: SLE_g [Combination 1] | -0.0007 | -0.0003 | -0.1454 | -0.2496 | -0.0242 | 0.0007 | |
| Node 8: 5: SLE_q [Combination 2] | -0.0010 | -0.0006 | -0.2430 | -0.5431 | -0.0420 | 0.0016 | |
| Node 8: 6: SLE_tot [Combination 3] | -0.0017 | -0.0009 | -0.3884 | -0.7927 | -0.0662 | 0.0024 | |
| Node 8: 7: SLU [Combination 4] | -0.0024 | -0.0013 | -0.5656 | -1.1663 | -0.0965 | 0.0035 | |
| Node 9: 1: Pesi propri | -0.0147 | -0.0001 | -0.4302 | 0.1144 | -0.0174 | -0.0001 | |
| Node 9: 2: Perm port | -0.0096 | -0.0001 | -0.2520 | 0.0995 | -0.0099 | -0.0001 | |
| Node 9: 3: Variabile | -0.0384 | -0.0006 | -1.0081 | 0.3980 | -0.0395 | -0.0004 | |
| Node 9: 4: SLE_g [Combination 1] | -0.0243 | -0.0003 | -0.6822 | 0.2139 | -0.0272 | -0.0002 | |
| Node 9: 5: SLE_q [Combination 2] | -0.0384 | -0.0006 | -1.0081 | 0.3980 | -0.0395 | -0.0004 | |

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|-------------------------------------|---------|---------|---------|---------|---------|---------|
| Node 9: 6: SLE_tot [Combination 3] | -0.0626 | -0.0009 | -1.6903 | 0.6119 | -0.0667 | -0.0006 |
| Node 9: 7: SLU [Combination 4] | -0.0910 | -0.0013 | -2.4494 | 0.8949 | -0.0966 | -0.0009 |
| Node 10: 1: Pesi propri | -0.0147 | -0.0001 | -0.1441 | 0.1132 | -0.0079 | 0.0002 |
| Node 10: 2: Perm port | -0.0096 | -0.0001 | -0.0944 | 0.1331 | -0.0038 | 0.0002 |
| Node 10: 3: Variabile | -0.0384 | -0.0005 | -0.3775 | 0.5323 | -0.0152 | 0.0008 |
| Node 10: 4: SLE_g [Combination 1] | -0.0243 | -0.0002 | -0.2385 | 0.2462 | -0.0117 | 0.0004 |
| Node 10: 5: SLE_q [Combination 2] | -0.0384 | -0.0005 | -0.3775 | 0.5323 | -0.0152 | 0.0008 |
| Node 10: 6: SLE_tot [Combination 3] | -0.0626 | -0.0007 | -0.6160 | 0.7785 | -0.0269 | 0.0012 |
| Node 10: 7: SLU [Combination 4] | -0.0910 | -0.0010 | -0.8952 | 1.1451 | -0.0388 | 0.0018 |
| Node 11: 1: Pesi propri | -0.0122 | 0.0000 | -0.1098 | 0.1161 | 0.0007 | 0.0000 |
| Node 11: 2: Perm port | -0.0080 | 0.0000 | -0.0916 | 0.1386 | 0.0009 | -0.0001 |
| Node 11: 3: Variabile | -0.0320 | 0.0000 | -0.3663 | 0.5542 | 0.0035 | -0.0002 |
| Node 11: 4: SLE_g [Combination 1] | -0.0202 | 0.0000 | -0.2013 | 0.2547 | 0.0016 | -0.0001 |
| Node 11: 5: SLE_q [Combination 2] | -0.0320 | 0.0000 | -0.3663 | 0.5542 | 0.0035 | -0.0002 |
| Node 11: 6: SLE_tot [Combination 3] | -0.0522 | 0.0000 | -0.5677 | 0.8089 | 0.0051 | -0.0003 |
| Node 11: 7: SLU [Combination 4] | -0.0759 | 0.0000 | -0.8295 | 1.1901 | 0.0075 | -0.0005 |
| Node 12: 1: Pesi propri | -0.0098 | 0.0000 | -0.0921 | 0.1161 | -0.0026 | 0.0000 |
| Node 12: 2: Perm port | -0.0064 | -0.0001 | -0.0757 | 0.1385 | -0.0023 | 0.0000 |
| Node 12: 3: Variabile | -0.0256 | -0.0002 | -0.3027 | 0.5541 | -0.0094 | 0.0000 |
| Node 12: 4: SLE_g [Combination 1] | -0.0162 | -0.0001 | -0.1677 | 0.2546 | -0.0049 | 0.0000 |
| Node 12: 5: SLE_q [Combination 2] | -0.0256 | -0.0002 | -0.3027 | 0.5541 | -0.0094 | 0.0000 |
| Node 12: 6: SLE_tot [Combination 3] | -0.0418 | -0.0003 | -0.4704 | 0.8087 | -0.0143 | 0.0001 |
| Node 12: 7: SLU [Combination 4] | -0.0607 | -0.0005 | -0.6872 | 1.1899 | -0.0209 | 0.0001 |
| Node 13: 1: Pesi propri | -0.0074 | 0.0000 | -0.0741 | 0.1133 | 0.0044 | 0.0000 |
| Node 13: 2: Perm port | -0.0048 | 0.0000 | -0.0522 | 0.1351 | 0.0029 | 0.0000 |
| Node 13: 3: Variabile | -0.0192 | 0.0000 | -0.2086 | 0.5404 | 0.0114 | 0.0000 |
| Node 13: 4: SLE_g [Combination 1] | -0.0122 | 0.0000 | -0.1263 | 0.2483 | 0.0073 | 0.0000 |
| Node 13: 5: SLE_q [Combination 2] | -0.0192 | 0.0000 | -0.2086 | 0.5404 | 0.0114 | 0.0000 |
| Node 13: 6: SLE_tot [Combination 3] | -0.0314 | 0.0000 | -0.3349 | 0.7887 | 0.0187 | 0.0000 |
| Node 13: 7: SLU [Combination 4] | -0.0456 | 0.0000 | -0.4875 | 1.1605 | 0.0271 | 0.0000 |
| Node 14: 1: Pesi propri | -0.0051 | -0.0001 | -0.2545 | 0.1161 | 0.0081 | 0.0000 |
| Node 14: 2: Perm port | -0.0033 | -0.0001 | -0.1804 | 0.1385 | 0.0059 | 0.0000 |
| Node 14: 3: Variabile | -0.0132 | -0.0004 | -0.7216 | 0.5541 | 0.0237 | -0.0001 |
| Node 14: 4: SLE_g [Combination 1] | -0.0084 | -0.0002 | -0.4349 | 0.2547 | 0.0141 | 0.0000 |
| Node 14: 5: SLE_q [Combination 2] | -0.0132 | -0.0004 | -0.7216 | 0.5541 | 0.0237 | -0.0001 |
| Node 14: 6: SLE_tot [Combination 3] | -0.0215 | -0.0006 | -1.1565 | 0.8088 | 0.0378 | -0.0001 |
| Node 14: 7: SLU [Combination 4] | -0.0313 | -0.0008 | -1.6839 | 1.1899 | 0.0551 | -0.0002 |
| Node 15: 1: Pesi propri | -0.0028 | 0.0000 | -0.2967 | 0.1162 | -0.0051 | 0.0001 |
| Node 15: 2: Perm port | -0.0018 | 0.0000 | -0.2125 | 0.1386 | -0.0036 | 0.0001 |
| Node 15: 3: Variabile | -0.0071 | 0.0000 | -0.8501 | 0.5543 | -0.0145 | 0.0004 |
| Node 15: 4: SLE_g [Combination 1] | -0.0045 | 0.0000 | -0.5092 | 0.2547 | -0.0087 | 0.0002 |
| Node 15: 5: SLE_q [Combination 2] | -0.0071 | 0.0000 | -0.8501 | 0.5543 | -0.0145 | 0.0004 |
| Node 15: 6: SLE_tot [Combination 3] | -0.0117 | 0.0000 | -1.3593 | 0.8090 | -0.0231 | 0.0006 |
| Node 15: 7: SLU [Combination 4] | -0.0169 | 0.0000 | -1.9796 | 1.1902 | -0.0337 | 0.0008 |
| Node 16: 1: Pesi propri | -0.0004 | -0.0003 | -0.0794 | 0.1146 | -0.0129 | -0.0004 |
| Node 16: 2: Perm port | -0.0003 | -0.0004 | -0.0545 | 0.1367 | -0.0095 | -0.0004 |
| Node 16: 3: Variabile | -0.0011 | -0.0016 | -0.2180 | 0.5470 | -0.0380 | -0.0017 |
| Node 16: 4: SLE_g [Combination 1] | -0.0007 | -0.0007 | -0.1339 | 0.2514 | -0.0224 | -0.0008 |
| Node 16: 5: SLE_q [Combination 2] | -0.0011 | -0.0016 | -0.2180 | 0.5470 | -0.0380 | -0.0017 |
| Node 16: 6: SLE_tot [Combination 3] | -0.0018 | -0.0023 | -0.3520 | 0.7984 | -0.0605 | -0.0024 |
| Node 16: 7: SLU [Combination 4] | -0.0026 | -0.0035 | -0.5120 | 1.1746 | -0.0881 | -0.0036 |
| Node 17: 1: Pesi propri | 0.0000 | 0.0034 | 0.0580 | -0.1138 | -0.0136 | 0.0003 |
| Node 17: 2: Perm port | 0.0000 | 0.0041 | 0.0491 | -0.1358 | -0.0105 | 0.0004 |
| Node 17: 3: Variabile | 0.0000 | 0.0164 | 0.1964 | -0.5431 | -0.0420 | 0.0016 |
| Node 17: 4: SLE_g [Combination 1] | 0.0000 | 0.0075 | 0.1071 | -0.2496 | -0.0241 | 0.0007 |
| Node 17: 5: SLE_q [Combination 2] | 0.0000 | 0.0164 | 0.1964 | -0.5431 | -0.0420 | 0.0016 |
| Node 17: 6: SLE_tot [Combination 3] | 0.0000 | 0.0239 | 0.3035 | -0.7927 | -0.0660 | 0.0024 |
| Node 17: 7: SLU [Combination 4] | 0.0000 | 0.0352 | 0.4436 | -1.1663 | -0.0963 | 0.0035 |
| Node 18: 1: Pesi propri | 0.0000 | -0.0040 | 0.0546 | 0.1146 | -0.0128 | -0.0004 |
| Node 18: 2: Perm port | 0.0000 | -0.0048 | 0.0451 | 0.1367 | -0.0095 | -0.0004 |
| Node 18: 3: Variabile | 0.0000 | -0.0191 | 0.1804 | 0.5470 | -0.0380 | -0.0017 |
| Node 18: 4: SLE_g [Combination 1] | 0.0000 | -0.0088 | 0.0997 | 0.2514 | -0.0223 | -0.0008 |
| Node 18: 5: SLE_q [Combination 2] | 0.0000 | -0.0191 | 0.1804 | 0.5470 | -0.0380 | -0.0017 |
| Node 18: 6: SLE_tot [Combination 3] | 0.0000 | -0.0279 | 0.2800 | 0.7984 | -0.0603 | -0.0024 |
| Node 18: 7: SLU [Combination 4] | 0.0000 | -0.0411 | 0.4092 | 1.1746 | -0.0879 | -0.0036 |
| Node 19: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 19: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 19: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 19: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 19: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 19: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 19: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 20: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 20: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 20: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 20: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 20: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 20: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 20: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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| Node 21: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 21: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 21: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 21: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 21: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 21: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 21: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 22: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 22: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 22: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 22: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 22: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 22: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 22: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Node 23: 1: Pesi propri | -0.0156 | 0.0000 | -1.4821 | -0.1102 | -0.0166 | 0.0001 | |
| Node 23: 2: Perm port | -0.0109 | -0.0001 | -1.1649 | -0.0959 | -0.0090 | 0.0001 | |
| Node 23: 3: Variabile | -0.0434 | -0.0002 | -4.6596 | -0.3835 | -0.0358 | 0.0003 | |
| Node 23: 4: SLE_g [Combination 1] | -0.0264 | -0.0001 | -2.6469 | -0.2061 | -0.0255 | 0.0001 | |
| Node 23: 5: SLE_q [Combination 2] | -0.0434 | -0.0002 | -4.6596 | -0.3835 | -0.0358 | 0.0003 | |
| Node 23: 6: SLE_tot [Combination 3] | -0.0699 | -0.0003 | -7.3065 | -0.5896 | -0.0614 | 0.0005 | |
| Node 23: 7: SLU [Combination 4] | -0.1017 | -0.0004 | -10.6634 | -0.8624 | -0.0887 | 0.0007 | |
| Node 24: 1: Pesi propri | -0.0162 | 0.0000 | -2.6324 | -0.0940 | -0.0166 | 0.0001 | |
| Node 24: 2: Perm port | -0.0116 | -0.0001 | -2.1657 | -0.0818 | -0.0091 | 0.0001 | |
| Node 24: 3: Variabile | -0.0465 | -0.0003 | -8.6627 | -0.3271 | -0.0363 | 0.0002 | |
| Node 24: 4: SLE_g [Combination 1] | -0.0279 | -0.0001 | -4.7980 | -0.1758 | -0.0257 | 0.0001 | |
| Node 24: 5: SLE_q [Combination 2] | -0.0465 | -0.0003 | -8.6627 | -0.3271 | -0.0363 | 0.0002 | |
| Node 24: 6: SLE_tot [Combination 3] | -0.0743 | -0.0004 | -13.4607 | -0.5029 | -0.0620 | 0.0003 | |
| Node 24: 7: SLU [Combination 4] | -0.1082 | -0.0005 | -19.6645 | -0.7356 | -0.0896 | 0.0005 | |
| Node 25: 1: Pesi propri | -0.0167 | -0.0001 | -3.5484 | -0.0688 | -0.0167 | 0.0000 | |
| Node 25: 2: Perm port | -0.0121 | -0.0001 | -2.9627 | -0.0598 | -0.0092 | 0.0000 | |
| Node 25: 3: Variabile | -0.0486 | -0.0003 | -11.8506 | -0.2393 | -0.0367 | 0.0001 | |
| Node 25: 4: SLE_g [Combination 1] | -0.0289 | -0.0001 | -6.5110 | -0.1286 | -0.0259 | 0.0001 | |
| Node 25: 5: SLE_q [Combination 2] | -0.0486 | -0.0003 | -11.8506 | -0.2393 | -0.0367 | 0.0001 | |
| Node 25: 6: SLE_tot [Combination 3] | -0.0774 | -0.0004 | -18.3616 | -0.3679 | -0.0626 | 0.0002 | |
| Node 25: 7: SLU [Combination 4] | -0.1128 | -0.0006 | -26.8328 | -0.5380 | -0.0905 | 0.0003 | |
| Node 26: 1: Pesi propri | -0.0170 | -0.0001 | -4.1456 | -0.0374 | -0.0168 | 0.0000 | |
| Node 26: 2: Perm port | -0.0124 | -0.0001 | -3.4823 | -0.0326 | -0.0093 | 0.0000 | |
| Node 26: 3: Variabile | -0.0498 | -0.0003 | -13.9292 | -0.1302 | -0.0371 | 0.0001 | |
| Node 26: 4: SLE_g [Combination 1] | -0.0294 | -0.0002 | -7.6279 | -0.0700 | -0.0261 | 0.0000 | |
| Node 26: 5: SLE_q [Combination 2] | -0.0498 | -0.0003 | -13.9292 | -0.1302 | -0.0371 | 0.0001 | |
| Node 26: 6: SLE_tot [Combination 3] | -0.0792 | -0.0005 | -21.5571 | -0.2002 | -0.0632 | 0.0001 | |
| Node 26: 7: SLU [Combination 4] | -0.1154 | -0.0007 | -31.5066 | -0.2928 | -0.0914 | 0.0001 | |
| Node 27: 1: Pesi propri | -0.0171 | -0.0001 | -4.3721 | -0.0029 | -0.0169 | 0.0000 | |
| Node 27: 2: Perm port | -0.0125 | -0.0001 | -3.6796 | -0.0025 | -0.0094 | 0.0000 | |
| Node 27: 3: Variabile | -0.0500 | -0.0004 | -14.7184 | -0.0101 | -0.0375 | 0.0000 | |
| Node 27: 4: SLE_g [Combination 1] | -0.0296 | -0.0002 | -8.0517 | -0.0054 | -0.0263 | 0.0000 | |
| Node 27: 5: SLE_q [Combination 2] | -0.0500 | -0.0004 | -14.7184 | -0.0101 | -0.0375 | 0.0000 | |
| Node 27: 6: SLE_tot [Combination 3] | -0.0796 | -0.0006 | -22.7702 | -0.0155 | -0.0638 | 0.0000 | |
| Node 27: 7: SLU [Combination 4] | -0.1160 | -0.0008 | -33.2809 | -0.0227 | -0.0922 | 0.0000 | |
| Node 28: 1: Pesi propri | -0.0170 | -0.0001 | -4.2091 | 0.0319 | -0.0170 | 0.0000 | |
| Node 28: 2: Perm port | -0.0124 | -0.0001 | -3.5381 | 0.0277 | -0.0095 | 0.0000 | |
| Node 28: 3: Variabile | -0.0494 | -0.0004 | -14.1522 | 0.1108 | -0.0379 | -0.0001 | |
| Node 28: 4: SLE_g [Combination 1] | -0.0293 | -0.0002 | -7.7472 | 0.0596 | -0.0265 | 0.0000 | |
| Node 28: 5: SLE_q [Combination 2] | -0.0494 | -0.0004 | -14.1522 | 0.1108 | -0.0379 | -0.0001 | |
| Node 28: 6: SLE_tot [Combination 3] | -0.0787 | -0.0006 | -21.8994 | 0.1703 | -0.0644 | -0.0001 | |
| Node 28: 7: SLU [Combination 4] | -0.1147 | -0.0009 | -32.0073 | 0.2491 | -0.0931 | -0.0002 | |
| Node 29: 1: Pesi propri | -0.0167 | -0.0001 | -3.6704 | 0.0639 | -0.0171 | 0.0000 | |
| Node 29: 2: Perm port | -0.0120 | -0.0001 | -3.0697 | 0.0556 | -0.0096 | 0.0000 | |
| Node 29: 3: Variabile | -0.0479 | -0.0005 | -12.2788 | 0.2222 | -0.0383 | -0.0002 | |
| Node 29: 4: SLE_g [Combination 1] | -0.0286 | -0.0002 | -6.7401 | 0.1195 | -0.0267 | -0.0001 | |
| Node 29: 5: SLE_q [Combination 2] | -0.0479 | -0.0005 | -12.2788 | 0.2222 | -0.0383 | -0.0002 | |
| Node 29: 6: SLE_tot [Combination 3] | -0.0766 | -0.0007 | -19.0188 | 0.3417 | -0.0650 | -0.0003 | |
| Node 29: 7: SLU [Combination 4] | -0.1115 | -0.0010 | -27.7942 | 0.4998 | -0.0940 | -0.0004 | |
| Node 30: 1: Pesi propri | -0.0162 | -0.0001 | -2.8026 | 0.0903 | -0.0172 | -0.0001 | |
| Node 30: 2: Perm port | -0.0114 | -0.0001 | -2.3151 | 0.0785 | -0.0097 | -0.0001 | |
| Node 30: 3: Variabile | -0.0456 | -0.0005 | -9.2603 | 0.3141 | -0.0387 | -0.0002 | |
| Node 30: 4: SLE_g [Combination 1] | -0.0276 | -0.0002 | -5.1176 | 0.1688 | -0.0268 | -0.0001 | |
| Node 30: 5: SLE_q [Combination 2] | -0.0456 | -0.0005 | -9.2603 | 0.3141 | -0.0387 | -0.0002 | |
| Node 30: 6: SLE_tot [Combination 3] | -0.0731 | -0.0007 | -14.3779 | 0.4829 | -0.0655 | -0.0004 | |
| Node 30: 7: SLU [Combination 4] | -0.1065 | -0.0011 | -21.0064 | 0.7063 | -0.0949 | -0.0005 | |
| Node 31: 1: Pesi propri | -0.0155 | -0.0001 | -1.6851 | 0.1081 | -0.0173 | -0.0001 | |
| Node 31: 2: Perm port | -0.0106 | -0.0001 | -1.3433 | 0.0940 | -0.0098 | -0.0001 | |
| Node 31: 3: Variabile | -0.0424 | -0.0006 | -5.3732 | 0.3761 | -0.0391 | -0.0003 | |
| Node 31: 4: SLE_g [Combination 1] | -0.0261 | -0.0003 | -3.0284 | 0.2021 | -0.0270 | -0.0001 | |
| Node 31: 5: SLE_q [Combination 2] | -0.0424 | -0.0006 | -5.3732 | 0.3761 | -0.0391 | -0.0003 | |
| Node 31: 6: SLE_tot [Combination 3] | -0.0685 | -0.0008 | -8.4016 | 0.5782 | -0.0661 | -0.0005 | |
| Node 31: 7: SLU [Combination 4] | -0.0996 | -0.0012 | -12.2654 | 0.8457 | -0.0958 | -0.0007 | |
| Node 32: 1: Pesi propri | -0.0133 | -0.0001 | -1.2000 | -0.1089 | -0.0071 | -0.0001 | |
| Node 32: 2: Perm port | -0.0082 | -0.0001 | -1.3335 | -0.1276 | -0.0029 | -0.0002 | |

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|-------------------------------------|---------|---------|----------|---------|---------|---------|--|
| Node 32: 3: Variabile | -0.0328 | -0.0004 | -5.3339 | -0.5104 | -0.0115 | -0.0007 | |
| Node 32: 4: SLE_g [Combination 1] | -0.0215 | -0.0002 | -2.5335 | -0.2365 | -0.0100 | -0.0003 | |
| Node 32: 5: SLE_q [Combination 2] | -0.0328 | -0.0004 | -5.3339 | -0.5104 | -0.0115 | -0.0007 | |
| Node 32: 6: SLE_tot [Combination 3] | -0.0544 | -0.0005 | -7.8675 | -0.7468 | -0.0215 | -0.0010 | |
| Node 32: 7: SLU [Combination 4] | -0.0789 | -0.0008 | -11.5612 | -1.0985 | -0.0308 | -0.0015 | |
| Node 33: 1: Pesi propri | -0.0119 | -0.0001 | -2.3372 | -0.0930 | -0.0072 | -0.0001 | |
| Node 33: 2: Perm port | -0.0065 | -0.0001 | -2.6660 | -0.1090 | -0.0030 | -0.0001 | |
| Node 33: 3: Variabile | -0.0259 | -0.0004 | -10.6641 | -0.4358 | -0.0120 | -0.0005 | |
| Node 33: 4: SLE_g [Combination 1] | -0.0183 | -0.0002 | -5.0033 | -0.2019 | -0.0101 | -0.0002 | |
| Node 33: 5: SLE_q [Combination 2] | -0.0259 | -0.0004 | -10.6641 | -0.4358 | -0.0120 | -0.0005 | |
| Node 33: 6: SLE_tot [Combination 3] | -0.0442 | -0.0005 | -15.6674 | -0.6377 | -0.0221 | -0.0008 | |
| Node 33: 7: SLU [Combination 4] | -0.0640 | -0.0008 | -23.0336 | -0.9380 | -0.0317 | -0.0012 | |
| Node 34: 1: Pesi propri | -0.0108 | -0.0001 | -3.2433 | -0.0680 | -0.0072 | -0.0001 | |
| Node 34: 2: Perm port | -0.0052 | -0.0001 | -3.7281 | -0.0797 | -0.0031 | -0.0001 | |
| Node 34: 3: Variabile | -0.0208 | -0.0004 | -14.9124 | -0.3189 | -0.0124 | -0.0004 | |
| Node 34: 4: SLE_g [Combination 1] | -0.0160 | -0.0002 | -6.9714 | -0.1477 | -0.0103 | -0.0002 | |
| Node 34: 5: SLE_q [Combination 2] | -0.0208 | -0.0004 | -14.9124 | -0.3189 | -0.0124 | -0.0004 | |
| Node 34: 6: SLE_tot [Combination 3] | -0.0368 | -0.0006 | -21.8838 | -0.4667 | -0.0227 | -0.0005 | |
| Node 34: 7: SLU [Combination 4] | -0.0530 | -0.0008 | -32.1770 | -0.6864 | -0.0326 | -0.0008 | |
| Node 35: 1: Pesi propri | -0.0101 | -0.0001 | -3.8338 | -0.0369 | -0.0073 | 0.0000 | |
| Node 35: 2: Perm port | -0.0044 | -0.0001 | -4.4206 | -0.0434 | -0.0032 | -0.0001 | |
| Node 35: 3: Variabile | -0.0176 | -0.0004 | -17.6824 | -0.1734 | -0.0128 | -0.0002 | |
| Node 35: 4: SLE_g [Combination 1] | -0.0145 | -0.0002 | -8.2544 | -0.0803 | -0.0105 | -0.0001 | |
| Node 35: 5: SLE_q [Combination 2] | -0.0176 | -0.0004 | -17.6824 | -0.1734 | -0.0128 | -0.0002 | |
| Node 35: 6: SLE_tot [Combination 3] | -0.0321 | -0.0006 | -25.9367 | -0.2537 | -0.0233 | -0.0003 | |
| Node 35: 7: SLU [Combination 4] | -0.0461 | -0.0008 | -38.1384 | -0.3732 | -0.0335 | -0.0004 | |
| Node 36: 1: Pesi propri | -0.0099 | -0.0001 | -4.0567 | -0.0027 | -0.0074 | 0.0000 | |
| Node 36: 2: Perm port | -0.0040 | -0.0001 | -4.6828 | -0.0033 | -0.0033 | 0.0000 | |
| Node 36: 3: Variabile | -0.0162 | -0.0004 | -18.7311 | -0.0130 | -0.0132 | 0.0000 | |
| Node 36: 4: SLE_g [Combination 1] | -0.0139 | -0.0002 | -8.7395 | -0.0060 | -0.0107 | 0.0000 | |
| Node 36: 5: SLE_q [Combination 2] | -0.0162 | -0.0004 | -18.7311 | -0.0130 | -0.0132 | 0.0000 | |
| Node 36: 6: SLE_tot [Combination 3] | -0.0301 | -0.0006 | -27.4707 | -0.0190 | -0.0239 | -0.0001 | |
| Node 36: 7: SLU [Combination 4] | -0.0432 | -0.0009 | -40.3946 | -0.0279 | -0.0344 | -0.0001 | |
| Node 37: 1: Pesi propri | -0.0100 | -0.0001 | -3.8933 | 0.0318 | -0.0075 | 0.0000 | |
| Node 37: 2: Perm port | -0.0042 | -0.0001 | -4.4922 | 0.0371 | -0.0034 | 0.0000 | |
| Node 37: 3: Variabile | -0.0167 | -0.0004 | -17.9689 | 0.1486 | -0.0136 | 0.0001 | |
| Node 37: 4: SLE_g [Combination 1] | -0.0142 | -0.0002 | -8.3855 | 0.0689 | -0.0109 | 0.0001 | |
| Node 37: 5: SLE_q [Combination 2] | -0.0167 | -0.0004 | -17.9689 | 0.1486 | -0.0136 | 0.0001 | |
| Node 37: 6: SLE_tot [Combination 3] | -0.0309 | -0.0006 | -26.3543 | 0.2175 | -0.0245 | 0.0002 | |
| Node 37: 7: SLU [Combination 4] | -0.0443 | -0.0009 | -38.7529 | 0.3198 | -0.0352 | 0.0003 | |
| Node 38: 1: Pesi propri | -0.0106 | -0.0001 | -3.3572 | 0.0635 | -0.0076 | 0.0001 | |
| Node 38: 2: Perm port | -0.0048 | -0.0001 | -3.8648 | 0.0744 | -0.0035 | 0.0001 | |
| Node 38: 3: Variabile | -0.0192 | -0.0004 | -15.4590 | 0.2976 | -0.0140 | 0.0003 | |
| Node 38: 4: SLE_g [Combination 1] | -0.0153 | -0.0002 | -7.2220 | 0.1379 | -0.0111 | 0.0001 | |
| Node 38: 5: SLE_q [Combination 2] | -0.0192 | -0.0004 | -15.4590 | 0.2976 | -0.0140 | 0.0003 | |
| Node 38: 6: SLE_tot [Combination 3] | -0.0345 | -0.0006 | -22.6810 | 0.4355 | -0.0251 | 0.0005 | |
| Node 38: 7: SLU [Combination 4] | -0.0497 | -0.0009 | -33.3501 | 0.6406 | -0.0361 | 0.0007 | |
| Node 39: 1: Pesi propri | -0.0115 | -0.0001 | -2.4953 | 0.0896 | -0.0077 | 0.0001 | |
| Node 39: 2: Perm port | -0.0059 | -0.0001 | -2.8546 | 0.1051 | -0.0036 | 0.0001 | |
| Node 39: 3: Variabile | -0.0236 | -0.0004 | -11.4183 | 0.4204 | -0.0144 | 0.0005 | |
| Node 39: 4: SLE_g [Combination 1] | -0.0174 | -0.0002 | -5.3499 | 0.1947 | -0.0113 | 0.0002 | |
| Node 39: 5: SLE_q [Combination 2] | -0.0236 | -0.0004 | -11.4183 | 0.4204 | -0.0144 | 0.0005 | |
| Node 39: 6: SLE_tot [Combination 3] | -0.0410 | -0.0006 | -16.7682 | 0.6151 | -0.0257 | 0.0007 | |
| Node 39: 7: SLU [Combination 4] | -0.0592 | -0.0009 | -24.6532 | 0.9047 | -0.0370 | 0.0010 | |
| Node 40: 1: Pesi propri | -0.0129 | -0.0001 | -1.3868 | 0.1072 | -0.0078 | 0.0001 | |
| Node 40: 2: Perm port | -0.0075 | -0.0001 | -1.5542 | 0.1258 | -0.0037 | 0.0002 | |
| Node 40: 3: Variabile | -0.0300 | -0.0004 | -6.2167 | 0.5032 | -0.0148 | 0.0007 | |
| Node 40: 4: SLE_g [Combination 1] | -0.0204 | -0.0002 | -2.9410 | 0.2330 | -0.0115 | 0.0003 | |
| Node 40: 5: SLE_q [Combination 2] | -0.0300 | -0.0004 | -6.2167 | 0.5032 | -0.0148 | 0.0007 | |
| Node 40: 6: SLE_tot [Combination 3] | -0.0503 | -0.0006 | -9.1577 | 0.7361 | -0.0263 | 0.0010 | |
| Node 40: 7: SLU [Combination 4] | -0.0729 | -0.0010 | -13.4592 | 1.0827 | -0.0379 | 0.0014 | |
| Node 41: 1: Pesi propri | -0.0128 | -0.0001 | -1.1977 | -0.1106 | 0.0010 | 0.0000 | |
| Node 41: 2: Perm port | -0.0088 | -0.0001 | -1.3904 | -0.1319 | 0.0012 | 0.0000 | |
| Node 41: 3: Variabile | -0.0353 | -0.0006 | -5.5616 | -0.5278 | 0.0048 | 0.0002 | |
| Node 41: 4: SLE_g [Combination 1] | -0.0216 | -0.0003 | -2.5881 | -0.2426 | 0.0022 | 0.0001 | |
| Node 41: 5: SLE_q [Combination 2] | -0.0353 | -0.0006 | -5.5616 | -0.5278 | 0.0048 | 0.0002 | |
| Node 41: 6: SLE_tot [Combination 3] | -0.0569 | -0.0009 | -8.1497 | -0.7704 | 0.0070 | 0.0003 | |
| Node 41: 7: SLU [Combination 4] | -0.0828 | -0.0013 | -11.9850 | -1.1334 | 0.0103 | 0.0004 | |
| Node 42: 1: Pesi propri | -0.0132 | -0.0001 | -2.3523 | -0.0944 | 0.0010 | 0.0000 | |
| Node 42: 2: Perm port | -0.0092 | -0.0001 | -2.7676 | -0.1125 | 0.0012 | 0.0000 | |
| Node 42: 3: Variabile | -0.0370 | -0.0005 | -11.0704 | -0.4502 | 0.0046 | 0.0001 | |
| Node 42: 4: SLE_g [Combination 1] | -0.0224 | -0.0002 | -5.1199 | -0.2069 | 0.0022 | 0.0001 | |
| Node 42: 5: SLE_q [Combination 2] | -0.0370 | -0.0005 | -11.0704 | -0.4502 | 0.0046 | 0.0001 | |
| Node 42: 6: SLE_tot [Combination 3] | -0.0594 | -0.0008 | -16.1903 | -0.6571 | 0.0068 | 0.0002 | |
| Node 42: 7: SLU [Combination 4] | -0.0864 | -0.0011 | -23.8150 | -0.9667 | 0.0100 | 0.0003 | |
| Node 43: 1: Pesi propri | -0.0134 | -0.0001 | -3.2717 | -0.0690 | 0.0010 | 0.0000 | |
| Node 43: 2: Perm port | -0.0095 | -0.0001 | -3.8642 | -0.0823 | 0.0011 | 0.0000 | |
| Node 43: 3: Variabile | -0.0381 | -0.0005 | -15.4570 | -0.3292 | 0.0045 | 0.0001 | |
| Node 43: 4: SLE_g [Combination 1] | -0.0229 | -0.0002 | -7.1360 | -0.1513 | 0.0021 | 0.0000 | |

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|-------------------------------------|---------|---------|----------|---------|---------|---------|
| Node 43: 5: SLE_q [Combination 2] | -0.0381 | -0.0005 | -15.4570 | -0.3292 | 0.0045 | 0.0001 |
| Node 43: 6: SLE_tot [Combination 3] | -0.0610 | -0.0007 | -22.5930 | -0.4805 | 0.0066 | 0.0001 |
| Node 43: 7: SLU [Combination 4] | -0.0888 | -0.0010 | -33.2351 | -0.7069 | 0.0097 | 0.0002 |
| Node 44: 1: Pesi propri | -0.0136 | -0.0001 | -3.8709 | -0.0375 | 0.0009 | 0.0000 |
| Node 44: 2: Perm port | -0.0097 | -0.0001 | -4.5789 | -0.0447 | 0.0011 | 0.0000 |
| Node 44: 3: Variabile | -0.0386 | -0.0004 | -18.3154 | -0.1789 | 0.0043 | 0.0000 |
| Node 44: 4: SLE_g [Combination 1] | -0.0232 | -0.0002 | -8.4498 | -0.0822 | 0.0020 | 0.0000 |
| Node 44: 5: SLE_q [Combination 2] | -0.0386 | -0.0004 | -18.3154 | -0.1789 | 0.0043 | 0.0000 |
| Node 44: 6: SLE_tot [Combination 3] | -0.0618 | -0.0006 | -26.7652 | -0.2611 | 0.0064 | 0.0000 |
| Node 44: 7: SLU [Combination 4] | -0.0900 | -0.0009 | -39.3736 | -0.3842 | 0.0094 | 0.0001 |
| Node 45: 1: Pesi propri | -0.0136 | -0.0001 | -4.0975 | -0.0028 | 0.0009 | 0.0000 |
| Node 45: 2: Perm port | -0.0097 | -0.0001 | -4.8491 | -0.0033 | 0.0011 | 0.0000 |
| Node 45: 3: Variabile | -0.0387 | -0.0003 | -19.3964 | -0.0133 | 0.0042 | 0.0000 |
| Node 45: 4: SLE_g [Combination 1] | -0.0233 | -0.0002 | -8.9466 | -0.0061 | 0.0020 | 0.0000 |
| Node 45: 5: SLE_q [Combination 2] | -0.0387 | -0.0003 | -19.3964 | -0.0133 | 0.0042 | 0.0000 |
| Node 45: 6: SLE_tot [Combination 3] | -0.0619 | -0.0005 | -28.3430 | -0.0194 | 0.0062 | 0.0000 |
| Node 45: 7: SLU [Combination 4] | -0.0902 | -0.0007 | -41.6950 | -0.0285 | 0.0091 | 0.0000 |
| Node 46: 1: Pesi propri | -0.0135 | -0.0001 | -3.9322 | 0.0322 | 0.0009 | 0.0000 |
| Node 46: 2: Perm port | -0.0096 | -0.0001 | -4.6517 | 0.0384 | 0.0010 | 0.0000 |
| Node 46: 3: Variabile | -0.0382 | -0.0003 | -18.6069 | 0.1537 | 0.0041 | -0.0001 |
| Node 46: 4: SLE_g [Combination 1] | -0.0231 | -0.0001 | -8.5839 | 0.0706 | 0.0019 | 0.0000 |
| Node 46: 5: SLE_q [Combination 2] | -0.0382 | -0.0003 | -18.6069 | 0.1537 | 0.0041 | -0.0001 |
| Node 46: 6: SLE_tot [Combination 3] | -0.0613 | -0.0004 | -27.1909 | 0.2243 | 0.0059 | -0.0001 |
| Node 46: 7: SLU [Combination 4] | -0.0892 | -0.0006 | -39.9999 | 0.3300 | 0.0087 | -0.0001 |
| Node 47: 1: Pesi propri | -0.0133 | 0.0000 | -3.3882 | 0.0645 | 0.0008 | 0.0000 |
| Node 47: 2: Perm port | -0.0093 | 0.0000 | -4.0027 | 0.0770 | 0.0010 | 0.0000 |
| Node 47: 3: Variabile | -0.0373 | -0.0002 | -16.0108 | 0.3079 | 0.0039 | -0.0001 |
| Node 47: 4: SLE_g [Combination 1] | -0.0227 | -0.0001 | -7.3909 | 0.1415 | 0.0018 | 0.0000 |
| Node 47: 5: SLE_q [Combination 2] | -0.0373 | -0.0002 | -16.0108 | 0.3079 | 0.0039 | -0.0001 |
| Node 47: 6: SLE_tot [Combination 3] | -0.0599 | -0.0003 | -23.4017 | 0.4494 | 0.0057 | -0.0001 |
| Node 47: 7: SLU [Combination 4] | -0.0873 | -0.0004 | -34.4249 | 0.6612 | 0.0084 | -0.0002 |
| Node 48: 1: Pesi propri | -0.0131 | 0.0000 | -2.5117 | 0.0912 | 0.0008 | 0.0000 |
| Node 48: 2: Perm port | -0.0090 | 0.0000 | -2.9570 | 0.1088 | 0.0009 | 0.0000 |
| Node 48: 3: Variabile | -0.0359 | -0.0001 | -11.8281 | 0.4354 | 0.0038 | -0.0001 |
| Node 48: 4: SLE_g [Combination 1] | -0.0220 | -0.0001 | -5.4687 | 0.2001 | 0.0018 | -0.0001 |
| Node 48: 5: SLE_q [Combination 2] | -0.0359 | -0.0001 | -11.8281 | 0.4354 | 0.0038 | -0.0001 |
| Node 48: 6: SLE_tot [Combination 3] | -0.0580 | -0.0002 | -17.2968 | 0.6355 | 0.0055 | -0.0002 |
| Node 48: 7: SLU [Combination 4] | -0.0843 | -0.0003 | -25.4429 | 0.9350 | 0.0081 | -0.0003 |
| Node 49: 1: Pesi propri | -0.0127 | 0.0000 | -1.3816 | 0.1094 | 0.0008 | 0.0000 |
| Node 49: 2: Perm port | -0.0085 | 0.0000 | -1.6089 | 0.1305 | 0.0009 | 0.0000 |
| Node 49: 3: Variabile | -0.0341 | -0.0001 | -6.4355 | 0.5222 | 0.0036 | -0.0002 |
| Node 49: 4: SLE_g [Combination 1] | -0.0212 | 0.0000 | -2.9905 | 0.2400 | 0.0017 | -0.0001 |
| Node 49: 5: SLE_q [Combination 2] | -0.0341 | -0.0001 | -6.4355 | 0.5222 | 0.0036 | -0.0002 |
| Node 49: 6: SLE_tot [Combination 3] | -0.0554 | -0.0001 | -9.4261 | 0.7622 | 0.0053 | -0.0003 |
| Node 49: 7: SLU [Combination 4] | -0.0805 | -0.0001 | -13.8628 | 1.1213 | 0.0078 | -0.0004 |
| Node 50: 1: Pesi propri | -0.0099 | 0.0000 | -1.1777 | -0.1106 | -0.0030 | 0.0000 |
| Node 50: 2: Perm port | -0.0066 | 0.0000 | -1.3712 | -0.1320 | -0.0029 | 0.0000 |
| Node 50: 3: Variabile | -0.0264 | -0.0001 | -5.4846 | -0.5279 | -0.0116 | 0.0000 |
| Node 50: 4: SLE_g [Combination 1] | -0.0165 | 0.0000 | -2.5489 | -0.2426 | -0.0059 | 0.0000 |
| Node 50: 5: SLE_q [Combination 2] | -0.0264 | -0.0001 | -5.4846 | -0.5279 | -0.0116 | 0.0000 |
| Node 50: 6: SLE_tot [Combination 3] | -0.0429 | -0.0001 | -8.0335 | -0.7706 | -0.0175 | -0.0001 |
| Node 50: 7: SLU [Combination 4] | -0.0623 | -0.0002 | -11.8147 | -1.1337 | -0.0256 | -0.0001 |
| Node 51: 1: Pesi propri | -0.0098 | 0.0000 | -2.3326 | -0.0944 | -0.0030 | 0.0000 |
| Node 51: 2: Perm port | -0.0065 | 0.0000 | -2.7487 | -0.1126 | -0.0028 | 0.0000 |
| Node 51: 3: Variabile | -0.0260 | -0.0001 | -10.9949 | -0.4503 | -0.0113 | 0.0000 |
| Node 51: 4: SLE_g [Combination 1] | -0.0163 | 0.0000 | -5.0813 | -0.2070 | -0.0058 | 0.0000 |
| Node 51: 5: SLE_q [Combination 2] | -0.0260 | -0.0001 | -10.9949 | -0.4503 | -0.0113 | 0.0000 |
| Node 51: 6: SLE_tot [Combination 3] | -0.0423 | -0.0001 | -16.0762 | -0.6572 | -0.0171 | 0.0000 |
| Node 51: 7: SLU [Combination 4] | -0.0615 | -0.0002 | -23.6478 | -0.9670 | -0.0251 | -0.0001 |
| Node 52: 1: Pesi propri | -0.0097 | 0.0000 | -3.2523 | -0.0690 | -0.0029 | 0.0000 |
| Node 52: 2: Perm port | -0.0064 | 0.0000 | -3.8457 | -0.0823 | -0.0028 | 0.0000 |
| Node 52: 3: Variabile | -0.0256 | -0.0001 | -15.3830 | -0.3293 | -0.0111 | 0.0000 |
| Node 52: 4: SLE_g [Combination 1] | -0.0161 | -0.0001 | -7.0980 | -0.1514 | -0.0057 | 0.0000 |
| Node 52: 5: SLE_q [Combination 2] | -0.0256 | -0.0001 | -15.3830 | -0.3293 | -0.0111 | 0.0000 |
| Node 52: 6: SLE_tot [Combination 3] | -0.0418 | -0.0002 | -22.4810 | -0.4807 | -0.0168 | 0.0000 |
| Node 52: 7: SLU [Combination 4] | -0.0607 | -0.0002 | -33.0710 | -0.7072 | -0.0246 | -0.0001 |
| Node 53: 1: Pesi propri | -0.0097 | 0.0000 | -3.8517 | -0.0375 | -0.0029 | 0.0000 |
| Node 53: 2: Perm port | -0.0063 | 0.0000 | -4.5607 | -0.0448 | -0.0027 | 0.0000 |
| Node 53: 3: Variabile | -0.0253 | -0.0001 | -18.2429 | -0.1790 | -0.0108 | 0.0000 |
| Node 53: 4: SLE_g [Combination 1] | -0.0160 | -0.0001 | -8.4124 | -0.0823 | -0.0056 | 0.0000 |
| Node 53: 5: SLE_q [Combination 2] | -0.0253 | -0.0001 | -18.2429 | -0.1790 | -0.0108 | 0.0000 |
| Node 53: 6: SLE_tot [Combination 3] | -0.0413 | -0.0002 | -26.6553 | -0.2613 | -0.0164 | 0.0000 |
| Node 53: 7: SLU [Combination 4] | -0.0600 | -0.0003 | -39.2126 | -0.3844 | -0.0241 | -0.0001 |
| Node 54: 1: Pesi propri | -0.0096 | 0.0000 | -4.0786 | -0.0028 | -0.0028 | 0.0000 |
| Node 54: 2: Perm port | -0.0063 | 0.0000 | -4.8313 | -0.0033 | -0.0026 | 0.0000 |
| Node 54: 3: Variabile | -0.0250 | -0.0001 | -19.3253 | -0.0134 | -0.0106 | 0.0000 |
| Node 54: 4: SLE_g [Combination 1] | -0.0159 | -0.0001 | -8.9099 | -0.0062 | -0.0055 | 0.0000 |
| Node 54: 5: SLE_q [Combination 2] | -0.0250 | -0.0001 | -19.3253 | -0.0134 | -0.0106 | 0.0000 |
| Node 54: 6: SLE_tot [Combination 3] | -0.0409 | -0.0002 | -28.2352 | -0.0196 | -0.0161 | 0.0000 |

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| Node 54: 7: SLU [Combination 4] | -0.0595 | -0.0003 | -41.5371 | -0.0288 | -0.0235 | 0.0000 |
| Node 55: 1: Pesi propri | -0.0096 | 0.0000 | -3.9135 | 0.0322 | -0.0028 | 0.0000 |
| Node 55: 2: Perm port | -0.0062 | 0.0000 | -4.6343 | 0.0384 | -0.0026 | 0.0000 |
| Node 55: 3: Variabile | -0.0249 | -0.0002 | -18.5374 | 0.1535 | -0.0104 | 0.0000 |
| Node 55: 4: SLE_g [Combination 1] | -0.0158 | -0.0001 | -8.5478 | 0.0706 | -0.0054 | 0.0000 |
| Node 55: 5: SLE_q [Combination 2] | -0.0249 | -0.0002 | -18.5374 | 0.1535 | -0.0104 | 0.0000 |
| Node 55: 6: SLE_tot [Combination 3] | -0.0407 | -0.0002 | -27.0852 | 0.2241 | -0.0157 | 0.0000 |
| Node 55: 7: SLU [Combination 4] | -0.0591 | -0.0003 | -39.8451 | 0.3297 | -0.0230 | 0.0000 |
| Node 56: 1: Pesi propri | -0.0096 | 0.0000 | -3.3697 | 0.0645 | -0.0027 | 0.0000 |
| Node 56: 2: Perm port | -0.0062 | 0.0000 | -3.9857 | 0.0769 | -0.0025 | 0.0000 |
| Node 56: 3: Variabile | -0.0248 | -0.0002 | -15.9427 | 0.3078 | -0.0101 | 0.0000 |
| Node 56: 4: SLE_g [Combination 1] | -0.0158 | -0.0001 | -7.3554 | 0.1414 | -0.0052 | 0.0000 |
| Node 56: 5: SLE_q [Combination 2] | -0.0248 | -0.0002 | -15.9427 | 0.3078 | -0.0101 | 0.0000 |
| Node 56: 6: SLE_tot [Combination 3] | -0.0406 | -0.0003 | -23.2981 | 0.4492 | -0.0153 | 0.0000 |
| Node 56: 7: SLU [Combination 4] | -0.0590 | -0.0004 | -34.2732 | 0.6609 | -0.0225 | 0.0000 |
| Node 57: 1: Pesi propri | -0.0096 | 0.0000 | -2.4935 | 0.0912 | -0.0027 | 0.0000 |
| Node 57: 2: Perm port | -0.0062 | 0.0000 | -2.9404 | 0.1088 | -0.0025 | 0.0000 |
| Node 57: 3: Variabile | -0.0249 | -0.0002 | -11.7615 | 0.4353 | -0.0099 | 0.0000 |
| Node 57: 4: SLE_g [Combination 1] | -0.0159 | -0.0001 | -5.4339 | 0.2000 | -0.0051 | 0.0000 |
| Node 57: 5: SLE_q [Combination 2] | -0.0249 | -0.0002 | -11.7615 | 0.4353 | -0.0099 | 0.0000 |
| Node 57: 6: SLE_tot [Combination 3] | -0.0408 | -0.0003 | -17.1954 | 0.6353 | -0.0150 | 0.0000 |
| Node 57: 7: SLU [Combination 4] | -0.0592 | -0.0004 | -25.2944 | 0.9347 | -0.0220 | 0.0000 |
| Node 58: 1: Pesi propri | -0.0097 | 0.0000 | -1.3637 | 0.1094 | -0.0026 | 0.0000 |
| Node 58: 2: Perm port | -0.0063 | -0.0001 | -1.5926 | 0.1305 | -0.0024 | 0.0000 |
| Node 58: 3: Variabile | -0.0251 | -0.0002 | -6.3704 | 0.5220 | -0.0096 | 0.0000 |
| Node 58: 4: SLE_g [Combination 1] | -0.0160 | -0.0001 | -2.9563 | 0.2399 | -0.0050 | 0.0000 |
| Node 58: 5: SLE_q [Combination 2] | -0.0251 | -0.0002 | -6.3704 | 0.5220 | -0.0096 | 0.0000 |
| Node 58: 6: SLE_tot [Combination 3] | -0.0411 | -0.0003 | -9.3267 | 0.7620 | -0.0146 | 0.0000 |
| Node 58: 7: SLU [Combination 4] | -0.0598 | -0.0004 | -13.7173 | 1.1211 | -0.0214 | 0.0001 |
| Node 59: 1: Pesi propri | -0.0074 | 0.0000 | -1.1280 | -0.1084 | 0.0044 | 0.0000 |
| Node 59: 2: Perm port | -0.0050 | 0.0000 | -1.3093 | -0.1293 | 0.0029 | 0.0000 |
| Node 59: 3: Variabile | -0.0199 | -0.0001 | -5.2371 | -0.5173 | 0.0115 | 0.0000 |
| Node 59: 4: SLE_g [Combination 1] | -0.0124 | 0.0000 | -2.4373 | -0.2377 | 0.0073 | 0.0000 |
| Node 59: 5: SLE_q [Combination 2] | -0.0199 | -0.0001 | -5.2371 | -0.5173 | 0.0115 | 0.0000 |
| Node 59: 6: SLE_tot [Combination 3] | -0.0323 | -0.0001 | -7.6744 | -0.7550 | 0.0188 | 0.0000 |
| Node 59: 7: SLU [Combination 4] | -0.0470 | -0.0002 | -11.2860 | -1.1109 | 0.0273 | 0.0000 |
| Node 60: 1: Pesi propri | -0.0074 | 0.0000 | -2.2611 | -0.0927 | 0.0044 | 0.0000 |
| Node 60: 2: Perm port | -0.0050 | 0.0000 | -2.6609 | -0.1106 | 0.0029 | 0.0000 |
| Node 60: 3: Variabile | -0.0198 | -0.0001 | -10.6438 | -0.4424 | 0.0115 | 0.0000 |
| Node 60: 4: SLE_g [Combination 1] | -0.0124 | 0.0000 | -4.9221 | -0.2033 | 0.0073 | 0.0000 |
| Node 60: 5: SLE_q [Combination 2] | -0.0198 | -0.0001 | -10.6438 | -0.4424 | 0.0115 | 0.0000 |
| Node 60: 6: SLE_tot [Combination 3] | -0.0322 | -0.0001 | -15.5659 | -0.6457 | 0.0188 | 0.0000 |
| Node 60: 7: SLU [Combination 4] | -0.0468 | -0.0002 | -22.8966 | -0.9500 | 0.0273 | 0.0000 |
| Node 61: 1: Pesi propri | -0.0074 | 0.0000 | -3.1653 | -0.0679 | 0.0044 | 0.0000 |
| Node 61: 2: Perm port | -0.0049 | 0.0000 | -3.7396 | -0.0810 | 0.0029 | 0.0000 |
| Node 61: 3: Variabile | -0.0197 | -0.0001 | -14.9584 | -0.3241 | 0.0114 | 0.0000 |
| Node 61: 4: SLE_g [Combination 1] | -0.0123 | 0.0000 | -6.9049 | -0.1489 | 0.0073 | 0.0000 |
| Node 61: 5: SLE_q [Combination 2] | -0.0197 | -0.0001 | -14.9584 | -0.3241 | 0.0114 | 0.0000 |
| Node 61: 6: SLE_tot [Combination 3] | -0.0320 | -0.0001 | -21.8633 | -0.4730 | 0.0188 | 0.0000 |
| Node 61: 7: SLU [Combination 4] | -0.0465 | -0.0001 | -32.1619 | -0.6960 | 0.0272 | 0.0000 |
| Node 62: 1: Pesi propri | -0.0074 | 0.0000 | -3.7556 | -0.0370 | 0.0044 | 0.0000 |
| Node 62: 2: Perm port | -0.0049 | 0.0000 | -4.4437 | -0.0441 | 0.0029 | 0.0000 |
| Node 62: 3: Variabile | -0.0195 | -0.0001 | -17.7749 | -0.1765 | 0.0114 | 0.0000 |
| Node 62: 4: SLE_g [Combination 1] | -0.0123 | 0.0000 | -8.1994 | -0.0811 | 0.0073 | 0.0000 |
| Node 62: 5: SLE_q [Combination 2] | -0.0195 | -0.0001 | -17.7749 | -0.1765 | 0.0114 | 0.0000 |
| Node 62: 6: SLE_tot [Combination 3] | -0.0318 | -0.0001 | -25.9743 | -0.2576 | 0.0187 | 0.0000 |
| Node 62: 7: SLU [Combination 4] | -0.0462 | -0.0001 | -38.2103 | -0.3790 | 0.0272 | 0.0000 |
| Node 63: 1: Pesi propri | -0.0074 | 0.0000 | -3.9797 | -0.0028 | 0.0044 | 0.0000 |
| Node 63: 2: Perm port | -0.0049 | 0.0000 | -4.7110 | -0.0034 | 0.0029 | 0.0000 |
| Node 63: 3: Variabile | -0.0194 | 0.0000 | -18.8442 | -0.0136 | 0.0114 | 0.0000 |
| Node 63: 4: SLE_g [Combination 1] | -0.0122 | 0.0000 | -8.6908 | -0.0062 | 0.0073 | 0.0000 |
| Node 63: 5: SLE_q [Combination 2] | -0.0194 | 0.0000 | -18.8442 | -0.0136 | 0.0114 | 0.0000 |
| Node 63: 6: SLE_tot [Combination 3] | -0.0316 | -0.0001 | -27.5349 | -0.0198 | 0.0187 | 0.0000 |
| Node 63: 7: SLU [Combination 4] | -0.0460 | -0.0001 | -40.5064 | -0.0291 | 0.0272 | 0.0000 |
| Node 64: 1: Pesi propri | -0.0074 | 0.0000 | -3.8181 | 0.0316 | 0.0044 | 0.0000 |
| Node 64: 2: Perm port | -0.0048 | 0.0000 | -4.5183 | 0.0377 | 0.0029 | 0.0000 |
| Node 64: 3: Variabile | -0.0193 | 0.0000 | -18.0732 | 0.1507 | 0.0114 | 0.0000 |
| Node 64: 4: SLE_g [Combination 1] | -0.0122 | 0.0000 | -8.3364 | 0.0692 | 0.0073 | 0.0000 |
| Node 64: 5: SLE_q [Combination 2] | -0.0193 | 0.0000 | -18.0732 | 0.1507 | 0.0114 | 0.0000 |
| Node 64: 6: SLE_tot [Combination 3] | -0.0315 | -0.0001 | -26.4096 | 0.2199 | 0.0187 | 0.0000 |
| Node 64: 7: SLU [Combination 4] | -0.0458 | -0.0001 | -38.8508 | 0.3235 | 0.0272 | 0.0000 |
| Node 65: 1: Pesi propri | -0.0074 | 0.0000 | -3.2842 | 0.0633 | 0.0044 | 0.0000 |
| Node 65: 2: Perm port | -0.0048 | 0.0000 | -3.8814 | 0.0755 | 0.0029 | 0.0000 |
| Node 65: 3: Variabile | -0.0192 | 0.0000 | -15.5257 | 0.3022 | 0.0114 | 0.0000 |
| Node 65: 4: SLE_g [Combination 1] | -0.0122 | 0.0000 | -7.1657 | 0.1389 | 0.0073 | 0.0000 |
| Node 65: 5: SLE_q [Combination 2] | -0.0192 | 0.0000 | -15.5257 | 0.3022 | 0.0114 | 0.0000 |
| Node 65: 6: SLE_tot [Combination 3] | -0.0314 | 0.0000 | -22.6914 | 0.4411 | 0.0187 | 0.0000 |
| Node 65: 7: SLU [Combination 4] | -0.0456 | -0.0001 | -33.3802 | 0.6489 | 0.0272 | 0.0000 |
| Node 66: 1: Pesi propri | -0.0074 | 0.0000 | -2.4242 | 0.0895 | 0.0044 | 0.0000 |

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|-------------------------------------|---------|---------|----------|---------|---------|---------|--|
| Node 66: 2: Perm port | -0.0048 | 0.0000 | -2.8555 | 0.1067 | 0.0029 | 0.0000 | |
| Node 66: 3: Variabile | -0.0192 | 0.0000 | -11.4219 | 0.4270 | 0.0114 | 0.0000 | |
| Node 66: 4: SLE_g [Combination 1] | -0.0121 | 0.0000 | -5.2797 | 0.1962 | 0.0073 | 0.0000 | |
| Node 66: 5: SLE_q [Combination 2] | -0.0192 | 0.0000 | -11.4219 | 0.4270 | 0.0114 | 0.0000 | |
| Node 66: 6: SLE_tot [Combination 3] | -0.0313 | 0.0000 | -16.7015 | 0.6232 | 0.0187 | 0.0000 | |
| Node 66: 7: SLU [Combination 4] | -0.0455 | 0.0000 | -24.5675 | 0.9169 | 0.0272 | 0.0000 | |
| Node 67: 1: Pesi propri | -0.0074 | 0.0000 | -1.3169 | 0.1071 | 0.0044 | 0.0000 | |
| Node 67: 2: Perm port | -0.0048 | 0.0000 | -1.5346 | 0.1278 | 0.0029 | 0.0000 | |
| Node 67: 3: Variabile | -0.0192 | 0.0000 | -6.1384 | 0.5111 | 0.0114 | 0.0000 | |
| Node 67: 4: SLE_g [Combination 1] | -0.0122 | 0.0000 | -2.8515 | 0.2349 | 0.0073 | 0.0000 | |
| Node 67: 5: SLE_q [Combination 2] | -0.0192 | 0.0000 | -6.1384 | 0.5111 | 0.0114 | 0.0000 | |
| Node 67: 6: SLE_tot [Combination 3] | -0.0313 | 0.0000 | -8.9899 | 0.7459 | 0.0187 | 0.0000 | |
| Node 67: 7: SLU [Combination 4] | -0.0455 | 0.0000 | -13.2215 | 1.0975 | 0.0272 | 0.0000 | |
| Node 68: 1: Pesi propri | -0.0052 | 0.0000 | -1.3411 | -0.1106 | 0.0086 | 0.0000 | |
| Node 68: 2: Perm port | -0.0036 | 0.0000 | -1.4764 | -0.1320 | 0.0065 | 0.0000 | |
| Node 68: 3: Variabile | -0.0143 | -0.0001 | -5.9056 | -0.5279 | 0.0260 | 0.0001 | |
| Node 68: 4: SLE_g [Combination 1] | -0.0088 | -0.0001 | -2.8175 | -0.2426 | 0.0151 | 0.0000 | |
| Node 68: 5: SLE_q [Combination 2] | -0.0143 | -0.0001 | -5.9056 | -0.5279 | 0.0260 | 0.0001 | |
| Node 68: 6: SLE_tot [Combination 3] | -0.0231 | -0.0002 | -8.7231 | -0.7705 | 0.0412 | 0.0001 | |
| Node 68: 7: SLU [Combination 4] | -0.0336 | -0.0003 | -12.8164 | -1.1336 | 0.0600 | 0.0001 | |
| Node 69: 1: Pesi propri | -0.0054 | 0.0000 | -2.4959 | -0.0944 | 0.0086 | 0.0000 | |
| Node 69: 2: Perm port | -0.0037 | 0.0000 | -2.8539 | -0.1126 | 0.0064 | 0.0000 | |
| Node 69: 3: Variabile | -0.0149 | -0.0002 | -11.4156 | -0.4503 | 0.0258 | 0.0000 | |
| Node 69: 4: SLE_g [Combination 1] | -0.0091 | -0.0001 | -5.3498 | -0.2069 | 0.0150 | 0.0000 | |
| Node 69: 5: SLE_q [Combination 2] | -0.0149 | -0.0002 | -11.4156 | -0.4503 | 0.0258 | 0.0000 | |
| Node 69: 6: SLE_tot [Combination 3] | -0.0239 | -0.0002 | -16.7654 | -0.6572 | 0.0408 | 0.0001 | |
| Node 69: 7: SLU [Combination 4] | -0.0348 | -0.0003 | -24.6490 | -0.9669 | 0.0595 | 0.0001 | |
| Node 70: 1: Pesi propri | -0.0055 | 0.0000 | -3.4154 | -0.0690 | 0.0085 | 0.0000 | |
| Node 70: 2: Perm port | -0.0038 | 0.0000 | -3.9509 | -0.0823 | 0.0064 | 0.0000 | |
| Node 70: 3: Variabile | -0.0153 | -0.0002 | -15.8035 | -0.3293 | 0.0255 | 0.0000 | |
| Node 70: 4: SLE_g [Combination 1] | -0.0093 | -0.0001 | -7.3663 | -0.1513 | 0.0149 | 0.0000 | |
| Node 70: 5: SLE_q [Combination 2] | -0.0153 | -0.0002 | -15.8035 | -0.3293 | 0.0255 | 0.0000 | |
| Node 70: 6: SLE_tot [Combination 3] | -0.0246 | -0.0003 | -23.1698 | -0.4806 | 0.0404 | 0.0000 | |
| Node 70: 7: SLU [Combination 4] | -0.0358 | -0.0004 | -34.0716 | -0.7072 | 0.0589 | 0.0001 | |
| Node 71: 1: Pesi propri | -0.0055 | 0.0000 | -4.0148 | -0.0375 | 0.0085 | 0.0000 | |
| Node 71: 2: Perm port | -0.0039 | -0.0001 | -4.6658 | -0.0448 | 0.0063 | 0.0000 | |
| Node 71: 3: Variabile | -0.0156 | -0.0002 | -18.6632 | -0.1790 | 0.0253 | 0.0000 | |
| Node 71: 4: SLE_g [Combination 1] | -0.0094 | -0.0001 | -8.6805 | -0.0823 | 0.0148 | 0.0000 | |
| Node 71: 5: SLE_q [Combination 2] | -0.0156 | -0.0002 | -18.6632 | -0.1790 | 0.0253 | 0.0000 | |
| Node 71: 6: SLE_tot [Combination 3] | -0.0250 | -0.0003 | -27.3437 | -0.2613 | 0.0400 | 0.0000 | |
| Node 71: 7: SLU [Combination 4] | -0.0364 | -0.0005 | -40.2126 | -0.3844 | 0.0584 | 0.0000 | |
| Node 72: 1: Pesi propri | -0.0056 | -0.0001 | -4.2415 | -0.0028 | 0.0084 | 0.0000 | |
| Node 72: 2: Perm port | -0.0039 | -0.0001 | -4.9363 | -0.0033 | 0.0063 | 0.0000 | |
| Node 72: 3: Variabile | -0.0157 | -0.0002 | -19.7454 | -0.0134 | 0.0250 | 0.0000 | |
| Node 72: 4: SLE_g [Combination 1] | -0.0095 | -0.0001 | -9.1779 | -0.0061 | 0.0147 | 0.0000 | |
| Node 72: 5: SLE_q [Combination 2] | -0.0157 | -0.0002 | -19.7454 | -0.0134 | 0.0250 | 0.0000 | |
| Node 72: 6: SLE_tot [Combination 3] | -0.0252 | -0.0004 | -28.9233 | -0.0195 | 0.0397 | 0.0000 | |
| Node 72: 7: SLU [Combination 4] | -0.0366 | -0.0005 | -42.5366 | -0.0287 | 0.0578 | 0.0000 | |
| Node 73: 1: Pesi propri | -0.0055 | -0.0001 | -4.0763 | 0.0322 | 0.0083 | 0.0000 | |
| Node 73: 2: Perm port | -0.0039 | -0.0001 | -4.7393 | 0.0384 | 0.0062 | 0.0000 | |
| Node 73: 3: Variabile | -0.0156 | -0.0003 | -18.9572 | 0.1536 | 0.0248 | 0.0000 | |
| Node 73: 4: SLE_g [Combination 1] | -0.0095 | -0.0001 | -8.8156 | 0.0706 | 0.0145 | 0.0000 | |
| Node 73: 5: SLE_q [Combination 2] | -0.0156 | -0.0003 | -18.9572 | 0.1536 | 0.0248 | 0.0000 | |
| Node 73: 6: SLE_tot [Combination 3] | -0.0251 | -0.0004 | -27.7729 | 0.2241 | 0.0393 | 0.0000 | |
| Node 73: 7: SLU [Combination 4] | -0.0365 | -0.0006 | -40.8440 | 0.3297 | 0.0573 | 0.0000 | |
| Node 74: 1: Pesi propri | -0.0055 | -0.0001 | -3.5325 | 0.0645 | 0.0083 | 0.0000 | |
| Node 74: 2: Perm port | -0.0038 | -0.0001 | -4.0906 | 0.0769 | 0.0061 | 0.0000 | |
| Node 74: 3: Variabile | -0.0153 | -0.0003 | -16.3623 | 0.3078 | 0.0245 | 0.0000 | |
| Node 74: 4: SLE_g [Combination 1] | -0.0093 | -0.0001 | -7.6231 | 0.1414 | 0.0144 | 0.0000 | |
| Node 74: 5: SLE_q [Combination 2] | -0.0153 | -0.0003 | -16.3623 | 0.3078 | 0.0245 | 0.0000 | |
| Node 74: 6: SLE_tot [Combination 3] | -0.0247 | -0.0004 | -23.9854 | 0.4492 | 0.0389 | 0.0000 | |
| Node 74: 7: SLU [Combination 4] | -0.0359 | -0.0006 | -35.2716 | 0.6609 | 0.0567 | -0.0001 | |
| Node 75: 1: Pesi propri | -0.0054 | -0.0001 | -2.6561 | 0.0912 | 0.0082 | 0.0000 | |
| Node 75: 2: Perm port | -0.0037 | -0.0001 | -3.0452 | 0.1088 | 0.0061 | 0.0000 | |
| Node 75: 3: Variabile | -0.0148 | -0.0003 | -12.1809 | 0.4353 | 0.0242 | -0.0001 | |
| Node 75: 4: SLE_g [Combination 1] | -0.0091 | -0.0002 | -5.7014 | 0.2000 | 0.0143 | 0.0000 | |
| Node 75: 5: SLE_q [Combination 2] | -0.0148 | -0.0003 | -12.1809 | 0.4353 | 0.0242 | -0.0001 | |
| Node 75: 6: SLE_tot [Combination 3] | -0.0240 | -0.0005 | -17.8823 | 0.6353 | 0.0385 | -0.0001 | |
| Node 75: 7: SLU [Combination 4] | -0.0349 | -0.0007 | -26.2922 | 0.9348 | 0.0562 | -0.0001 | |
| Node 76: 1: Pesi propri | -0.0053 | -0.0001 | -1.5262 | 0.1094 | 0.0082 | 0.0000 | |
| Node 76: 2: Perm port | -0.0035 | -0.0001 | -1.6974 | 0.1305 | 0.0060 | 0.0000 | |
| Node 76: 3: Variabile | -0.0141 | -0.0004 | -6.7896 | 0.5221 | 0.0240 | -0.0001 | |
| Node 76: 4: SLE_g [Combination 1] | -0.0088 | -0.0002 | -3.2236 | 0.2399 | 0.0142 | 0.0000 | |
| Node 76: 5: SLE_q [Combination 2] | -0.0141 | -0.0004 | -6.7896 | 0.5221 | 0.0240 | -0.0001 | |
| Node 76: 6: SLE_tot [Combination 3] | -0.0229 | -0.0005 | -10.0132 | 0.7620 | 0.0382 | -0.0001 | |
| Node 76: 7: SLU [Combination 4] | -0.0333 | -0.0008 | -14.7146 | 1.1211 | 0.0556 | -0.0002 | |
| Node 77: 1: Pesi propri | -0.0020 | -0.0002 | -1.3864 | -0.1106 | -0.0053 | -0.0001 | |
| Node 77: 2: Perm port | -0.0009 | -0.0003 | -1.5124 | -0.1319 | -0.0039 | -0.0001 | |
| Node 77: 3: Variabile | -0.0037 | -0.0011 | -6.0495 | -0.5278 | -0.0157 | -0.0004 | |

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|-------------------------------------|---------|---------|----------|---------|---------|---------|
| Node 77: 4: SLE_g [Combination 1] | -0.0029 | -0.0005 | -2.8988 | -0.2425 | -0.0093 | -0.0002 |
| Node 77: 5: SLE_q [Combination 2] | -0.0037 | -0.0011 | -6.0495 | -0.5278 | -0.0157 | -0.0004 |
| Node 77: 6: SLE_tot [Combination 3] | -0.0066 | -0.0017 | -8.9483 | -0.7703 | -0.0249 | -0.0005 |
| Node 77: 7: SLU [Combination 4] | -0.0095 | -0.0024 | -13.1451 | -1.1333 | -0.0363 | -0.0008 |
| Node 78: 1: Pesi propri | -0.0013 | -0.0002 | -2.5409 | -0.0943 | -0.0053 | -0.0001 |
| Node 78: 2: Perm port | -0.0001 | -0.0003 | -2.8895 | -0.1125 | -0.0039 | -0.0001 |
| Node 78: 3: Variabile | -0.0002 | -0.0010 | -11.5578 | -0.4501 | -0.0155 | -0.0003 |
| Node 78: 4: SLE_g [Combination 1] | -0.0013 | -0.0005 | -5.4303 | -0.2069 | -0.0092 | -0.0001 |
| Node 78: 5: SLE_q [Combination 2] | -0.0002 | -0.0010 | -11.5578 | -0.4501 | -0.0155 | -0.0003 |
| Node 78: 6: SLE_tot [Combination 3] | -0.0016 | -0.0015 | -16.9881 | -0.6570 | -0.0247 | -0.0004 |
| Node 78: 7: SLU [Combination 4] | -0.0021 | -0.0022 | -24.9740 | -0.9666 | -0.0360 | -0.0006 |
| Node 79: 1: Pesi propri | -0.0008 | -0.0002 | -3.4601 | -0.0690 | -0.0053 | 0.0000 |
| Node 79: 2: Perm port | 0.0005 | -0.0002 | -3.9860 | -0.0823 | -0.0039 | 0.0000 |
| Node 79: 3: Variabile | 0.0022 | -0.0009 | -15.9439 | -0.3292 | -0.0154 | -0.0002 |
| Node 79: 4: SLE_g [Combination 1] | -0.0002 | -0.0004 | -7.4461 | -0.1513 | -0.0091 | -0.0001 |
| Node 79: 5: SLE_q [Combination 2] | 0.0022 | -0.0009 | -15.9439 | -0.3292 | -0.0154 | -0.0002 |
| Node 79: 6: SLE_tot [Combination 3] | 0.0019 | -0.0013 | -23.3900 | -0.4804 | -0.0245 | -0.0003 |
| Node 79: 7: SLU [Combination 4] | 0.0031 | -0.0019 | -34.3930 | -0.7068 | -0.0358 | -0.0004 |
| Node 80: 1: Pesi propri | -0.0005 | -0.0002 | -4.0590 | -0.0375 | -0.0052 | 0.0000 |
| Node 80: 2: Perm port | 0.0009 | -0.0002 | -4.7005 | -0.0447 | -0.0038 | 0.0000 |
| Node 80: 3: Variabile | 0.0036 | -0.0008 | -18.8019 | -0.1788 | -0.0153 | -0.0001 |
| Node 80: 4: SLE_g [Combination 1] | 0.0004 | -0.0003 | -8.7595 | -0.0822 | -0.0091 | 0.0000 |
| Node 80: 5: SLE_q [Combination 2] | 0.0036 | -0.0008 | -18.8019 | -0.1788 | -0.0153 | -0.0001 |
| Node 80: 6: SLE_tot [Combination 3] | 0.0040 | -0.0011 | -27.5614 | -0.2610 | -0.0243 | -0.0001 |
| Node 80: 7: SLU [Combination 4] | 0.0061 | -0.0016 | -40.5303 | -0.3841 | -0.0355 | -0.0002 |
| Node 81: 1: Pesi propri | -0.0004 | -0.0001 | -4.2855 | -0.0028 | -0.0052 | 0.0000 |
| Node 81: 2: Perm port | 0.0010 | -0.0002 | -4.9706 | -0.0033 | -0.0038 | 0.0000 |
| Node 81: 3: Variabile | 0.0041 | -0.0006 | -19.8824 | -0.0132 | -0.0151 | 0.0000 |
| Node 81: 4: SLE_g [Combination 1] | 0.0006 | -0.0003 | -9.2561 | -0.0061 | -0.0090 | 0.0000 |
| Node 81: 5: SLE_q [Combination 2] | 0.0041 | -0.0006 | -19.8824 | -0.0132 | -0.0151 | 0.0000 |
| Node 81: 6: SLE_tot [Combination 3] | 0.0047 | -0.0009 | -29.1385 | -0.0193 | -0.0241 | 0.0000 |
| Node 81: 7: SLU [Combination 4] | 0.0071 | -0.0014 | -42.8506 | -0.0284 | -0.0352 | 0.0000 |
| Node 82: 1: Pesi propri | -0.0005 | -0.0001 | -4.1199 | 0.0322 | -0.0052 | 0.0000 |
| Node 82: 2: Perm port | 0.0009 | -0.0001 | -4.7731 | 0.0384 | -0.0038 | 0.0000 |
| Node 82: 3: Variabile | 0.0036 | -0.0005 | -19.0925 | 0.1537 | -0.0150 | 0.0001 |
| Node 82: 4: SLE_g [Combination 1] | 0.0004 | -0.0002 | -8.8931 | 0.0706 | -0.0089 | 0.0000 |
| Node 82: 5: SLE_q [Combination 2] | 0.0036 | -0.0005 | -19.0925 | 0.1537 | -0.0150 | 0.0001 |
| Node 82: 6: SLE_tot [Combination 3] | 0.0040 | -0.0007 | -27.9856 | 0.2243 | -0.0239 | 0.0001 |
| Node 82: 7: SLU [Combination 4] | 0.0061 | -0.0011 | -41.1544 | 0.3301 | -0.0349 | 0.0002 |
| Node 83: 1: Pesi propri | -0.0008 | -0.0001 | -3.5757 | 0.0645 | -0.0052 | 0.0000 |
| Node 83: 2: Perm port | 0.0006 | -0.0001 | -4.1240 | 0.0770 | -0.0037 | 0.0000 |
| Node 83: 3: Variabile | 0.0022 | -0.0004 | -16.4959 | 0.3079 | -0.0149 | 0.0002 |
| Node 83: 4: SLE_g [Combination 1] | -0.0002 | -0.0002 | -7.6997 | 0.1415 | -0.0089 | 0.0001 |
| Node 83: 5: SLE_q [Combination 2] | 0.0022 | -0.0004 | -16.4959 | 0.3079 | -0.0149 | 0.0002 |
| Node 83: 6: SLE_tot [Combination 3] | 0.0020 | -0.0006 | -24.1956 | 0.4494 | -0.0237 | 0.0002 |
| Node 83: 7: SLU [Combination 4] | 0.0032 | -0.0008 | -35.5783 | 0.6613 | -0.0346 | 0.0004 |
| Node 84: 1: Pesi propri | -0.0013 | -0.0001 | -2.6990 | 0.0913 | -0.0051 | 0.0001 |
| Node 84: 2: Perm port | 0.0000 | -0.0001 | -3.0782 | 0.1089 | -0.0037 | 0.0001 |
| Node 84: 3: Variabile | 0.0000 | -0.0003 | -12.3128 | 0.4354 | -0.0147 | 0.0002 |
| Node 84: 4: SLE_g [Combination 1] | -0.0013 | -0.0001 | -5.7772 | 0.2001 | -0.0088 | 0.0001 |
| Node 84: 5: SLE_q [Combination 2] | 0.0000 | -0.0003 | -12.3128 | 0.4354 | -0.0147 | 0.0002 |
| Node 84: 6: SLE_tot [Combination 3] | -0.0013 | -0.0004 | -18.0900 | 0.6356 | -0.0235 | 0.0004 |
| Node 84: 7: SLU [Combination 4] | -0.0017 | -0.0005 | -26.5952 | 0.9351 | -0.0343 | 0.0005 |
| Node 85: 1: Pesi propri | -0.0019 | 0.0000 | -1.5687 | 0.1094 | -0.0051 | 0.0001 |
| Node 85: 2: Perm port | -0.0008 | 0.0000 | -1.7299 | 0.1306 | -0.0036 | 0.0001 |
| Node 85: 3: Variabile | -0.0032 | -0.0001 | -6.9198 | 0.5222 | -0.0146 | 0.0003 |
| Node 85: 4: SLE_g [Combination 1] | -0.0027 | -0.0001 | -3.2987 | 0.2400 | -0.0087 | 0.0001 |
| Node 85: 5: SLE_q [Combination 2] | -0.0032 | -0.0001 | -6.9198 | 0.5222 | -0.0146 | 0.0003 |
| Node 85: 6: SLE_tot [Combination 3] | -0.0059 | -0.0002 | -10.2185 | 0.7622 | -0.0233 | 0.0005 |
| Node 85: 7: SLU [Combination 4] | -0.0084 | -0.0003 | -15.0139 | 1.1214 | -0.0340 | 0.0007 |
| Node 86: 1: Pesi propri | -0.0034 | -0.0001 | -1.1448 | -0.1096 | -0.0137 | 0.0003 |
| Node 86: 2: Perm port | -0.0038 | -0.0002 | -1.3253 | -0.1307 | -0.0104 | 0.0003 |
| Node 86: 3: Variabile | -0.0150 | -0.0007 | -5.3013 | -0.5228 | -0.0416 | 0.0014 |
| Node 86: 4: SLE_g [Combination 1] | -0.0071 | -0.0003 | -2.4701 | -0.2403 | -0.0241 | 0.0006 |
| Node 86: 5: SLE_q [Combination 2] | -0.0150 | -0.0007 | -5.3013 | -0.5228 | -0.0416 | 0.0014 |
| Node 86: 6: SLE_tot [Combination 3] | -0.0221 | -0.0010 | -7.7714 | -0.7631 | -0.0657 | 0.0020 |
| Node 86: 7: SLU [Combination 4] | -0.0325 | -0.0015 | -11.4281 | -1.1227 | -0.0958 | 0.0029 |
| Node 87: 1: Pesi propri | -0.0061 | -0.0002 | -2.2892 | -0.0936 | -0.0136 | 0.0002 |
| Node 87: 2: Perm port | -0.0071 | -0.0002 | -2.6905 | -0.1116 | -0.0103 | 0.0003 |
| Node 87: 3: Variabile | -0.0283 | -0.0008 | -10.7618 | -0.4465 | -0.0412 | 0.0010 |
| Node 87: 4: SLE_g [Combination 1] | -0.0132 | -0.0004 | -4.9797 | -0.2052 | -0.0239 | 0.0005 |
| Node 87: 5: SLE_q [Combination 2] | -0.0283 | -0.0008 | -10.7618 | -0.4465 | -0.0412 | 0.0010 |
| Node 87: 6: SLE_tot [Combination 3] | -0.0416 | -0.0011 | -15.7415 | -0.6517 | -0.0651 | 0.0015 |
| Node 87: 7: SLU [Combination 4] | -0.0611 | -0.0017 | -23.1544 | -0.9589 | -0.0950 | 0.0022 |
| Node 88: 1: Pesi propri | -0.0082 | -0.0002 | -3.2016 | -0.0685 | -0.0135 | 0.0001 |
| Node 88: 2: Perm port | -0.0095 | -0.0002 | -3.7788 | -0.0817 | -0.0102 | 0.0002 |
| Node 88: 3: Variabile | -0.0380 | -0.0009 | -15.1153 | -0.3269 | -0.0408 | 0.0007 |
| Node 88: 4: SLE_g [Combination 1] | -0.0177 | -0.0004 | -6.9804 | -0.1502 | -0.0237 | 0.0003 |
| Node 88: 5: SLE_q [Combination 2] | -0.0380 | -0.0009 | -15.1153 | -0.3269 | -0.0408 | 0.0007 |

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|-------------------------------------|---------|---------|----------|---------|---------|---------|
| Node 88: 6: SLE_tot [Combination 3] | -0.0557 | -0.0013 | -22.0957 | -0.4771 | -0.0645 | 0.0010 |
| Node 88: 7: SLU [Combination 4] | -0.0819 | -0.0019 | -32.5033 | -0.7020 | -0.0941 | 0.0015 |
| Node 89: 1: Pesi propri | -0.0094 | -0.0002 | -3.7969 | -0.0373 | -0.0134 | 0.0001 |
| Node 89: 2: Perm port | -0.0110 | -0.0002 | -4.4890 | -0.0445 | -0.0101 | 0.0001 |
| Node 89: 3: Variabile | -0.0440 | -0.0010 | -17.9558 | -0.1780 | -0.0404 | 0.0004 |
| Node 89: 4: SLE_g [Combination 1] | -0.0204 | -0.0005 | -8.2859 | -0.0818 | -0.0235 | 0.0002 |
| Node 89: 5: SLE_q [Combination 2] | -0.0440 | -0.0010 | -17.9558 | -0.1780 | -0.0404 | 0.0004 |
| Node 89: 6: SLE_tot [Combination 3] | -0.0645 | -0.0014 | -26.2417 | -0.2597 | -0.0640 | 0.0005 |
| Node 89: 7: SLU [Combination 4] | -0.0948 | -0.0021 | -38.6031 | -0.3822 | -0.0933 | 0.0008 |
| Node 90: 1: Pesi propri | -0.0099 | -0.0002 | -4.0229 | -0.0029 | -0.0134 | 0.0000 |
| Node 90: 2: Perm port | -0.0116 | -0.0003 | -4.7585 | -0.0034 | -0.0100 | 0.0000 |
| Node 90: 3: Variabile | -0.0463 | -0.0011 | -19.0340 | -0.0137 | -0.0400 | 0.0000 |
| Node 90: 4: SLE_g [Combination 1] | -0.0215 | -0.0005 | -8.7814 | -0.0063 | -0.0234 | 0.0000 |
| Node 90: 5: SLE_q [Combination 2] | -0.0463 | -0.0011 | -19.0340 | -0.0137 | -0.0400 | 0.0000 |
| Node 90: 6: SLE_tot [Combination 3] | -0.0678 | -0.0016 | -27.8154 | -0.0200 | -0.0634 | 0.0001 |
| Node 90: 7: SLU [Combination 4] | -0.0998 | -0.0023 | -40.9185 | -0.0294 | -0.0924 | 0.0001 |
| Node 91: 1: Pesi propri | -0.0096 | -0.0002 | -3.8600 | 0.0318 | -0.0133 | -0.0001 |
| Node 91: 2: Perm port | -0.0112 | -0.0003 | -4.5642 | 0.0380 | -0.0099 | -0.0001 |
| Node 91: 3: Variabile | -0.0449 | -0.0012 | -18.2570 | 0.1519 | -0.0396 | -0.0003 |
| Node 91: 4: SLE_g [Combination 1] | -0.0208 | -0.0005 | -8.4243 | 0.0698 | -0.0232 | -0.0001 |
| Node 91: 5: SLE_q [Combination 2] | -0.0449 | -0.0012 | -18.2570 | 0.1519 | -0.0396 | -0.0003 |
| Node 91: 6: SLE_tot [Combination 3] | -0.0657 | -0.0017 | -26.6812 | 0.2217 | -0.0628 | -0.0004 |
| Node 91: 7: SLU [Combination 4] | -0.0967 | -0.0026 | -39.2499 | 0.3261 | -0.0916 | -0.0006 |
| Node 92: 1: Pesi propri | -0.0085 | -0.0003 | -3.3217 | 0.0639 | -0.0132 | -0.0001 |
| Node 92: 2: Perm port | -0.0099 | -0.0003 | -3.9221 | 0.0762 | -0.0098 | -0.0002 |
| Node 92: 3: Variabile | -0.0397 | -0.0013 | -15.6884 | 0.3047 | -0.0392 | -0.0006 |
| Node 92: 4: SLE_g [Combination 1] | -0.0185 | -0.0006 | -7.2438 | 0.1401 | -0.0230 | -0.0003 |
| Node 92: 5: SLE_q [Combination 2] | -0.0397 | -0.0013 | -15.6884 | 0.3047 | -0.0392 | -0.0006 |
| Node 92: 6: SLE_tot [Combination 3] | -0.0582 | -0.0019 | -22.9323 | 0.4448 | -0.0622 | -0.0009 |
| Node 92: 7: SLU [Combination 4] | -0.0855 | -0.0028 | -33.7340 | 0.6544 | -0.0907 | -0.0014 |
| Node 93: 1: Pesi propri | -0.0066 | -0.0003 | -2.4541 | 0.0903 | -0.0131 | -0.0002 |
| Node 93: 2: Perm port | -0.0077 | -0.0004 | -2.8871 | 0.1077 | -0.0097 | -0.0002 |
| Node 93: 3: Variabile | -0.0307 | -0.0014 | -11.5485 | 0.4309 | -0.0388 | -0.0010 |
| Node 93: 4: SLE_g [Combination 1] | -0.0143 | -0.0006 | -5.3412 | 0.1980 | -0.0228 | -0.0004 |
| Node 93: 5: SLE_q [Combination 2] | -0.0307 | -0.0014 | -11.5485 | 0.4309 | -0.0388 | -0.0010 |
| Node 93: 6: SLE_tot [Combination 3] | -0.0450 | -0.0020 | -16.8898 | 0.6289 | -0.0616 | -0.0014 |
| Node 93: 7: SLU [Combination 4] | -0.0662 | -0.0030 | -24.8438 | 0.9253 | -0.0898 | -0.0021 |
| Node 94: 1: Pesi propri | -0.0040 | -0.0003 | -1.3361 | 0.1082 | -0.0130 | -0.0003 |
| Node 94: 2: Perm port | -0.0045 | -0.0004 | -1.5535 | 0.1291 | -0.0096 | -0.0003 |
| Node 94: 3: Variabile | -0.0178 | -0.0015 | -6.2140 | 0.5163 | -0.0384 | -0.0013 |
| Node 94: 4: SLE_g [Combination 1] | -0.0084 | -0.0007 | -2.8896 | 0.2373 | -0.0226 | -0.0006 |
| Node 94: 5: SLE_q [Combination 2] | -0.0178 | -0.0015 | -6.2140 | 0.5163 | -0.0384 | -0.0013 |
| Node 94: 6: SLE_tot [Combination 3] | -0.0262 | -0.0022 | -9.1036 | 0.7536 | -0.0611 | -0.0019 |
| Node 94: 7: SLU [Combination 4] | -0.0386 | -0.0032 | -13.3881 | 1.1087 | -0.0890 | -0.0028 |
| Node 95: 1: Pesi propri | -0.0149 | 0.0004 | -0.3332 | -0.1143 | -0.0159 | 0.0001 |
| Node 95: 2: Perm port | -0.0100 | 0.0004 | -0.1925 | -0.1080 | -0.0085 | 0.0001 |
| Node 95: 3: Variabile | -0.0401 | 0.0017 | -0.7702 | -0.4319 | -0.0340 | 0.0003 |
| Node 95: 4: SLE_g [Combination 1] | -0.0249 | 0.0008 | -0.5257 | -0.2223 | -0.0244 | 0.0002 |
| Node 95: 5: SLE_q [Combination 2] | -0.0401 | 0.0017 | -0.7702 | -0.4319 | -0.0340 | 0.0003 |
| Node 95: 6: SLE_tot [Combination 3] | -0.0650 | 0.0025 | -1.2959 | -0.6542 | -0.0584 | 0.0005 |
| Node 95: 7: SLU [Combination 4] | -0.0945 | 0.0036 | -1.8773 | -0.9584 | -0.0844 | 0.0007 |
| Node 96: 1: Pesi propri | -0.0149 | 0.0006 | -0.2572 | -0.1139 | -0.0142 | 0.0000 |
| Node 96: 2: Perm port | -0.0100 | 0.0007 | -0.1525 | -0.1162 | -0.0074 | 0.0000 |
| Node 96: 3: Variabile | -0.0401 | 0.0028 | -0.6098 | -0.4647 | -0.0294 | 0.0001 |
| Node 96: 4: SLE_g [Combination 1] | -0.0249 | 0.0013 | -0.4096 | -0.2301 | -0.0216 | 0.0000 |
| Node 96: 5: SLE_q [Combination 2] | -0.0401 | 0.0028 | -0.6098 | -0.4647 | -0.0294 | 0.0001 |
| Node 96: 6: SLE_tot [Combination 3] | -0.0650 | 0.0041 | -1.0195 | -0.6947 | -0.0510 | 0.0001 |
| Node 96: 7: SLU [Combination 4] | -0.0945 | 0.0061 | -1.4778 | -1.0193 | -0.0736 | 0.0002 |
| Node 97: 1: Pesi propri | -0.0149 | 0.0005 | -0.1927 | -0.1135 | -0.0113 | -0.0001 |
| Node 97: 2: Perm port | -0.0100 | 0.0006 | -0.1200 | -0.1244 | -0.0055 | -0.0001 |
| Node 97: 3: Variabile | -0.0401 | 0.0024 | -0.4800 | -0.4974 | -0.0218 | -0.0003 |
| Node 97: 4: SLE_g [Combination 1] | -0.0249 | 0.0011 | -0.3127 | -0.2379 | -0.0167 | -0.0001 |
| Node 97: 5: SLE_q [Combination 2] | -0.0401 | 0.0024 | -0.4800 | -0.4974 | -0.0218 | -0.0003 |
| Node 97: 6: SLE_tot [Combination 3] | -0.0650 | 0.0035 | -0.7927 | -0.7353 | -0.0386 | -0.0004 |
| Node 97: 7: SLU [Combination 4] | -0.0945 | 0.0052 | -1.1505 | -1.0803 | -0.0556 | -0.0006 |
| Node 98: 1: Pesi propri | -0.0142 | -0.0007 | -0.1218 | -0.1136 | -0.0026 | -0.0001 |
| Node 98: 2: Perm port | -0.0096 | -0.0008 | -0.0917 | -0.1337 | -0.0002 | -0.0001 |
| Node 98: 3: Variabile | -0.0384 | -0.0031 | -0.3666 | -0.5350 | -0.0007 | -0.0002 |
| Node 98: 4: SLE_g [Combination 1] | -0.0239 | -0.0014 | -0.2135 | -0.2474 | -0.0028 | -0.0001 |
| Node 98: 5: SLE_q [Combination 2] | -0.0384 | -0.0031 | -0.3666 | -0.5350 | -0.0007 | -0.0002 |
| Node 98: 6: SLE_tot [Combination 3] | -0.0623 | -0.0045 | -0.5801 | -0.7823 | -0.0035 | -0.0004 |
| Node 98: 7: SLU [Combination 4] | -0.0906 | -0.0066 | -0.8458 | -1.1508 | -0.0047 | -0.0005 |
| Node 99: 1: Pesi propri | -0.0136 | -0.0007 | -0.1158 | -0.1141 | 0.0001 | 0.0000 |
| Node 99: 2: Perm port | -0.0092 | -0.0008 | -0.0953 | -0.1349 | 0.0014 | 0.0000 |
| Node 99: 3: Variabile | -0.0368 | -0.0033 | -0.3811 | -0.5397 | 0.0055 | 0.0001 |
| Node 99: 4: SLE_g [Combination 1] | -0.0228 | -0.0015 | -0.2110 | -0.2491 | 0.0014 | 0.0001 |
| Node 99: 5: SLE_q [Combination 2] | -0.0368 | -0.0033 | -0.3811 | -0.5397 | 0.0055 | 0.0001 |
| Node 99: 6: SLE_tot [Combination 3] | -0.0596 | -0.0048 | -0.5922 | -0.7888 | 0.0069 | 0.0002 |
| Node 99: 7: SLU [Combination 4] | -0.0866 | -0.0070 | -0.8651 | -1.1604 | 0.0104 | 0.0003 |

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|--------------------------------------|---------|---------|---------|---------|---------|---------|--|
| Node 100: 1: Pesi propri | -0.0130 | -0.0004 | -0.1198 | -0.1146 | 0.0013 | 0.0001 | |
| Node 100: 2: Perm port | -0.0088 | -0.0005 | -0.1042 | -0.1361 | 0.0018 | 0.0001 | |
| Node 100: 3: Variabile | -0.0351 | -0.0021 | -0.4168 | -0.5445 | 0.0074 | 0.0003 | |
| Node 100: 4: SLE_g [Combination 1] | -0.0218 | -0.0010 | -0.2240 | -0.2507 | 0.0031 | 0.0001 | |
| Node 100: 5: SLE_q [Combination 2] | -0.0351 | -0.0021 | -0.4168 | -0.5445 | 0.0074 | 0.0003 | |
| Node 100: 6: SLE_tot [Combination 3] | -0.0569 | -0.0030 | -0.6408 | -0.7952 | 0.0105 | 0.0004 | |
| Node 100: 7: SLU [Combination 4] | -0.0827 | -0.0045 | -0.9372 | -1.1699 | 0.0155 | 0.0006 | |
| Node 101: 1: Pesi propri | -0.0118 | 0.0000 | -0.1298 | -0.1151 | 0.0001 | 0.0000 | |
| Node 101: 2: Perm port | -0.0079 | 0.0000 | -0.1162 | -0.1373 | 0.0001 | 0.0000 | |
| Node 101: 3: Variabile | -0.0317 | 0.0001 | -0.4646 | -0.5493 | 0.0004 | 0.0001 | |
| Node 101: 4: SLE_g [Combination 1] | -0.0197 | 0.0001 | -0.2459 | -0.2524 | 0.0002 | 0.0000 | |
| Node 101: 5: SLE_q [Combination 2] | -0.0317 | 0.0001 | -0.4646 | -0.5493 | 0.0004 | 0.0001 | |
| Node 101: 6: SLE_tot [Combination 3] | -0.0514 | 0.0002 | -0.7106 | -0.8017 | 0.0006 | 0.0001 | |
| Node 101: 7: SLU [Combination 4] | -0.0748 | 0.0003 | -1.0399 | -1.1796 | 0.0009 | 0.0002 | |
| Node 102: 1: Pesi propri | -0.0112 | 0.0001 | -0.1277 | -0.1151 | -0.0010 | 0.0000 | |
| Node 102: 2: Perm port | -0.0075 | 0.0001 | -0.1139 | -0.1373 | -0.0010 | 0.0000 | |
| Node 102: 3: Variabile | -0.0301 | 0.0003 | -0.4554 | -0.5493 | -0.0039 | 0.0000 | |
| Node 102: 4: SLE_g [Combination 1] | -0.0187 | 0.0001 | -0.2415 | -0.2525 | -0.0019 | 0.0000 | |
| Node 102: 5: SLE_q [Combination 2] | -0.0301 | 0.0003 | -0.4554 | -0.5493 | -0.0039 | 0.0000 | |
| Node 102: 6: SLE_tot [Combination 3] | -0.0487 | 0.0005 | -0.6970 | -0.8018 | -0.0058 | 0.0000 | |
| Node 102: 7: SLU [Combination 4] | -0.0709 | 0.0007 | -1.0199 | -1.1796 | -0.0085 | 0.0000 | |
| Node 103: 1: Pesi propri | -0.0105 | 0.0000 | -0.1198 | -0.1151 | -0.0021 | 0.0000 | |
| Node 103: 2: Perm port | -0.0071 | 0.0000 | -0.1061 | -0.1373 | -0.0020 | 0.0000 | |
| Node 103: 3: Variabile | -0.0284 | 0.0002 | -0.4243 | -0.5493 | -0.0079 | 0.0000 | |
| Node 103: 4: SLE_g [Combination 1] | -0.0176 | 0.0001 | -0.2259 | -0.2525 | -0.0040 | 0.0000 | |
| Node 103: 5: SLE_q [Combination 2] | -0.0284 | 0.0002 | -0.4243 | -0.5493 | -0.0079 | 0.0000 | |
| Node 103: 6: SLE_tot [Combination 3] | -0.0460 | 0.0002 | -0.6502 | -0.8018 | -0.0120 | -0.0001 | |
| Node 103: 7: SLU [Combination 4] | -0.0669 | 0.0003 | -0.9513 | -1.1797 | -0.0176 | -0.0001 | |
| Node 104: 1: Pesi propri | -0.0089 | 0.0000 | -0.0789 | -0.1140 | -0.0028 | 0.0000 | |
| Node 104: 2: Perm port | -0.0060 | 0.0000 | -0.0661 | -0.1360 | -0.0029 | 0.0000 | |
| Node 104: 3: Variabile | -0.0240 | -0.0002 | -0.2643 | -0.5441 | -0.0116 | 0.0000 | |
| Node 104: 4: SLE_g [Combination 1] | -0.0149 | -0.0001 | -0.1450 | -0.1450 | -0.0057 | 0.0000 | |
| Node 104: 5: SLE_q [Combination 2] | -0.0240 | -0.0002 | -0.2643 | -0.5441 | -0.0116 | 0.0000 | |
| Node 104: 6: SLE_tot [Combination 3] | -0.0389 | -0.0002 | -0.4093 | -0.7942 | -0.0173 | 0.0000 | |
| Node 104: 7: SLU [Combination 4] | -0.0566 | -0.0003 | -0.5982 | -1.1685 | -0.0253 | 0.0000 | |
| Node 105: 1: Pesi propri | -0.0083 | 0.0000 | -0.0689 | -0.1134 | -0.0009 | 0.0000 | |
| Node 105: 2: Perm port | -0.0056 | 0.0000 | -0.0549 | -0.1353 | -0.0014 | 0.0000 | |
| Node 105: 3: Variabile | -0.0224 | -0.0001 | -0.2197 | -0.5411 | -0.0055 | 0.0000 | |
| Node 105: 4: SLE_g [Combination 1] | -0.0139 | -0.0001 | -0.1238 | -0.2487 | -0.0023 | 0.0000 | |
| Node 105: 5: SLE_q [Combination 2] | -0.0224 | -0.0001 | -0.2197 | -0.5411 | -0.0055 | 0.0000 | |
| Node 105: 6: SLE_tot [Combination 3] | -0.0363 | -0.0002 | -0.3435 | -0.7897 | -0.0078 | 0.0000 | |
| Node 105: 7: SLU [Combination 4] | -0.0528 | -0.0002 | -0.5015 | -1.1619 | -0.0116 | 0.0000 | |
| Node 106: 1: Pesi propri | -0.0077 | 0.0000 | -0.0718 | -0.1127 | 0.0023 | 0.0000 | |
| Node 106: 2: Perm port | -0.0052 | 0.0000 | -0.0541 | -0.1345 | 0.0012 | 0.0000 | |
| Node 106: 3: Variabile | -0.0208 | -0.0001 | -0.2164 | -0.5380 | 0.0049 | 0.0000 | |
| Node 106: 4: SLE_g [Combination 1] | -0.0129 | 0.0000 | -0.1259 | -0.2472 | 0.0036 | 0.0000 | |
| Node 106: 5: SLE_q [Combination 2] | -0.0208 | -0.0001 | -0.2164 | -0.5380 | 0.0049 | 0.0000 | |
| Node 106: 6: SLE_tot [Combination 3] | -0.0337 | -0.0001 | -0.3423 | -0.7852 | 0.0085 | 0.0000 | |
| Node 106: 7: SLU [Combination 4] | -0.0490 | -0.0002 | -0.4990 | -1.1552 | 0.0123 | 0.0000 | |
| Node 107: 1: Pesi propri | -0.0066 | -0.0001 | -0.1360 | -0.1134 | 0.0095 | 0.0000 | |
| Node 107: 2: Perm port | -0.0044 | -0.0001 | -0.0983 | -0.1353 | 0.0069 | 0.0000 | |
| Node 107: 3: Variabile | -0.0177 | -0.0002 | -0.3931 | -0.5412 | 0.0277 | 0.0000 | |
| Node 107: 4: SLE_g [Combination 1] | -0.0110 | -0.0001 | -0.2343 | -0.2487 | 0.0164 | 0.0000 | |
| Node 107: 5: SLE_q [Combination 2] | -0.0177 | -0.0002 | -0.3931 | -0.5412 | 0.0277 | 0.0000 | |
| Node 107: 6: SLE_tot [Combination 3] | -0.0287 | -0.0004 | -0.6274 | -0.7899 | 0.0441 | 0.0000 | |
| Node 107: 7: SLU [Combination 4] | -0.0418 | -0.0005 | -0.9139 | -1.1622 | 0.0642 | 0.0000 | |
| Node 108: 1: Pesi propri | -0.0060 | -0.0001 | -0.1871 | -0.1141 | 0.0106 | 0.0000 | |
| Node 108: 2: Perm port | -0.0040 | -0.0001 | -0.1360 | -0.1361 | 0.0079 | 0.0000 | |
| Node 108: 3: Variabile | -0.0162 | -0.0003 | -0.5439 | -0.5443 | 0.0316 | 0.0000 | |
| Node 108: 4: SLE_g [Combination 1] | -0.0101 | -0.0001 | -0.3231 | -0.2501 | 0.0185 | 0.0000 | |
| Node 108: 5: SLE_q [Combination 2] | -0.0162 | -0.0003 | -0.5439 | -0.5443 | 0.0316 | 0.0000 | |
| Node 108: 6: SLE_tot [Combination 3] | -0.0263 | -0.0005 | -0.8670 | -0.7944 | 0.0500 | 0.0000 | |
| Node 108: 7: SLU [Combination 4] | -0.0382 | -0.0007 | -1.2631 | -1.1688 | 0.0729 | 0.0000 | |
| Node 109: 1: Pesi propri | -0.0055 | -0.0001 | -0.2392 | -0.1147 | 0.0099 | 0.0000 | |
| Node 109: 2: Perm port | -0.0037 | -0.0001 | -0.1752 | -0.1368 | 0.0075 | 0.0000 | |
| Node 109: 3: Variabile | -0.0147 | -0.0003 | -0.7009 | -0.5473 | 0.0301 | 0.0000 | |
| Node 109: 4: SLE_g [Combination 1] | -0.0091 | -0.0001 | -0.4144 | -0.2515 | 0.0175 | 0.0000 | |
| Node 109: 5: SLE_q [Combination 2] | -0.0147 | -0.0003 | -0.7009 | -0.5473 | 0.0301 | 0.0000 | |
| Node 109: 6: SLE_tot [Combination 3] | -0.0238 | -0.0004 | -1.1153 | -0.7989 | 0.0476 | 0.0000 | |
| Node 109: 7: SLU [Combination 4] | -0.0346 | -0.0006 | -1.6251 | -1.1754 | 0.0693 | 0.0001 | |
| Node 110: 1: Pesi propri | -0.0043 | 0.0001 | -0.3161 | -0.1151 | 0.0049 | 0.0000 | |
| Node 110: 2: Perm port | -0.0029 | 0.0001 | -0.2335 | -0.1373 | 0.0037 | 0.0000 | |
| Node 110: 3: Variabile | -0.0116 | 0.0005 | -0.9342 | -0.5493 | 0.0149 | 0.0001 | |
| Node 110: 4: SLE_g [Combination 1] | -0.0073 | 0.0002 | -0.5497 | -0.2524 | 0.0086 | 0.0000 | |
| Node 110: 5: SLE_q [Combination 2] | -0.0116 | 0.0005 | -0.9342 | -0.5493 | 0.0149 | 0.0001 | |
| Node 110: 6: SLE_tot [Combination 3] | -0.0189 | 0.0007 | -1.4839 | -0.8018 | 0.0235 | 0.0001 | |
| Node 110: 7: SLU [Combination 4] | -0.0275 | 0.0010 | -2.1626 | -1.1796 | 0.0343 | 0.0002 | |
| Node 111: 1: Pesi propri | -0.0038 | 0.0001 | -0.3324 | -0.1151 | 0.0015 | 0.0000 | |
| Node 111: 2: Perm port | -0.0025 | 0.0002 | -0.2462 | -0.1373 | 0.0013 | 0.0000 | |

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|--------------------------------------|---------|---------|---------|---------|---------|---------|--|
| Node 111: 3: Variabile | -0.0101 | 0.0006 | -0.9850 | -0.5493 | 0.0051 | 0.0000 | |
| Node 111: 4: SLE_g [Combination 1] | -0.0063 | 0.0003 | -0.5786 | -0.2524 | 0.0028 | 0.0000 | |
| Node 111: 5: SLE_q [Combination 2] | -0.0101 | 0.0006 | -0.9850 | -0.5493 | 0.0051 | 0.0000 | |
| Node 111: 6: SLE_tot [Combination 3] | -0.0164 | 0.0009 | -1.5636 | -0.8017 | 0.0079 | 0.0000 | |
| Node 111: 7: SLU [Combination 4] | -0.0239 | 0.0013 | -2.2789 | -1.1795 | 0.0116 | -0.0001 | |
| Node 112: 1: Pesi propri | -0.0032 | 0.0000 | -0.3309 | -0.1151 | -0.0021 | 0.0000 | |
| Node 112: 2: Perm port | -0.0022 | 0.0000 | -0.2459 | -0.1373 | -0.0015 | -0.0001 | |
| Node 112: 3: Variabile | -0.0086 | 0.0001 | -0.9836 | -0.5492 | -0.0059 | -0.0002 | |
| Node 112: 4: SLE_g [Combination 1] | -0.0054 | 0.0000 | -0.5768 | -0.2524 | -0.0036 | -0.0001 | |
| Node 112: 5: SLE_q [Combination 2] | -0.0086 | 0.0001 | -0.9836 | -0.5492 | -0.0059 | -0.0002 | |
| Node 112: 6: SLE_tot [Combination 3] | -0.0140 | 0.0001 | -1.5605 | -0.8017 | -0.0095 | -0.0003 | |
| Node 112: 7: SLU [Combination 4] | -0.0203 | 0.0001 | -2.2745 | -1.1795 | -0.0138 | -0.0005 | |
| Node 113: 1: Pesi propri | -0.0021 | -0.0009 | -0.2713 | -0.1147 | -0.0094 | -0.0001 | |
| Node 113: 2: Perm port | -0.0011 | -0.0011 | -0.2017 | -0.1369 | -0.0071 | -0.0001 | |
| Node 113: 3: Variabile | -0.0056 | -0.0044 | -0.8067 | -0.5475 | -0.0284 | -0.0005 | |
| Node 113: 4: SLE_g [Combination 1] | -0.0035 | -0.0020 | -0.4730 | -0.2516 | -0.0165 | -0.0002 | |
| Node 113: 5: SLE_q [Combination 2] | -0.0056 | -0.0044 | -0.8067 | -0.5475 | -0.0284 | -0.0005 | |
| Node 113: 6: SLE_tot [Combination 3] | -0.0091 | -0.0064 | -1.2797 | -0.7991 | -0.0450 | -0.0008 | |
| Node 113: 7: SLU [Combination 4] | -0.0132 | -0.0094 | -1.8653 | -1.1757 | -0.0656 | -0.0012 | |
| Node 114: 1: Pesi propri | -0.0015 | -0.0013 | -0.2174 | -0.1144 | -0.0119 | 0.0000 | |
| Node 114: 2: Perm port | -0.0010 | -0.0016 | -0.1610 | -0.1365 | -0.0090 | -0.0001 | |
| Node 114: 3: Variabile | -0.0040 | -0.0064 | -0.6439 | -0.5460 | -0.0359 | -0.0002 | |
| Node 114: 4: SLE_g [Combination 1] | -0.0026 | -0.0029 | -0.3783 | -0.2509 | -0.0209 | -0.0001 | |
| Node 114: 5: SLE_q [Combination 2] | -0.0040 | -0.0064 | -0.6439 | -0.5460 | -0.0359 | -0.0002 | |
| Node 114: 6: SLE_tot [Combination 3] | -0.0066 | -0.0093 | -1.0222 | -0.7970 | -0.0569 | -0.0003 | |
| Node 114: 7: SLU [Combination 4] | -0.0096 | -0.0137 | -1.4899 | -1.1726 | -0.0829 | -0.0004 | |
| Node 115: 1: Pesi propri | -0.0010 | -0.0012 | -0.1533 | -0.1141 | -0.0134 | 0.0001 | |
| Node 115: 2: Perm port | -0.0006 | -0.0014 | -0.1127 | -0.1361 | -0.0101 | 0.0001 | |
| Node 115: 3: Variabile | -0.0025 | -0.0058 | -0.4510 | -0.5446 | -0.0405 | 0.0005 | |
| Node 115: 4: SLE_g [Combination 1] | -0.0016 | -0.0027 | -0.2661 | -0.2503 | -0.0235 | 0.0002 | |
| Node 115: 5: SLE_q [Combination 2] | -0.0025 | -0.0058 | -0.4510 | -0.5446 | -0.0405 | 0.0005 | |
| Node 115: 6: SLE_tot [Combination 3] | -0.0041 | -0.0084 | -0.7170 | -0.7948 | -0.0640 | 0.0007 | |
| Node 115: 7: SLU [Combination 4] | -0.0060 | -0.0124 | -1.0449 | -1.1694 | -0.0933 | 0.0011 | |
| Node 116: 1: Pesi propri | -0.0147 | -0.0005 | -0.3441 | 0.1141 | -0.0168 | -0.0001 | |
| Node 116: 2: Perm port | -0.0096 | -0.0006 | -0.2031 | 0.1079 | -0.0095 | -0.0001 | |
| Node 116: 3: Variabile | -0.0384 | -0.0025 | -0.8123 | 0.4315 | -0.0380 | -0.0003 | |
| Node 116: 4: SLE_g [Combination 1] | -0.0243 | -0.0011 | -0.5472 | 0.2220 | -0.0263 | -0.0002 | |
| Node 116: 5: SLE_q [Combination 2] | -0.0384 | -0.0025 | -0.8123 | 0.4315 | -0.0380 | -0.0003 | |
| Node 116: 6: SLE_tot [Combination 3] | -0.0626 | -0.0036 | -1.3595 | 0.6535 | -0.0643 | -0.0005 | |
| Node 116: 7: SLU [Combination 4] | -0.0910 | -0.0053 | -1.9705 | 0.9575 | -0.0930 | -0.0007 | |
| Node 117: 1: Pesi propri | -0.0147 | -0.0008 | -0.2638 | 0.1138 | -0.0151 | 0.0000 | |
| Node 117: 2: Perm port | -0.0096 | -0.0009 | -0.1580 | 0.1163 | -0.0084 | 0.0000 | |
| Node 117: 3: Variabile | -0.0384 | -0.0036 | -0.6318 | 0.4651 | -0.0334 | -0.0001 | |
| Node 117: 4: SLE_g [Combination 1] | -0.0243 | -0.0017 | -0.4217 | 0.2301 | -0.0234 | 0.0000 | |
| Node 117: 5: SLE_q [Combination 2] | -0.0384 | -0.0036 | -0.6318 | 0.4651 | -0.0334 | -0.0001 | |
| Node 117: 6: SLE_tot [Combination 3] | -0.0626 | -0.0053 | -1.0535 | 0.6952 | -0.0569 | -0.0001 | |
| Node 117: 7: SLU [Combination 4] | -0.0910 | -0.0078 | -1.5275 | 1.0200 | -0.0823 | -0.0002 | |
| Node 118: 1: Pesi propri | -0.0147 | -0.0007 | -0.1949 | 0.1135 | -0.0121 | 0.0001 | |
| Node 118: 2: Perm port | -0.0096 | -0.0008 | -0.1205 | 0.1247 | -0.0065 | 0.0001 | |
| Node 118: 3: Variabile | -0.0384 | -0.0032 | -0.4818 | 0.4987 | -0.0258 | 0.0003 | |
| Node 118: 4: SLE_g [Combination 1] | -0.0243 | -0.0015 | -0.3154 | 0.2382 | -0.0186 | 0.0001 | |
| Node 118: 5: SLE_q [Combination 2] | -0.0384 | -0.0032 | -0.4818 | 0.4987 | -0.0258 | 0.0003 | |
| Node 118: 6: SLE_tot [Combination 3] | -0.0626 | -0.0047 | -0.7972 | 0.7368 | -0.0445 | 0.0004 | |
| Node 118: 7: SLU [Combination 4] | -0.0910 | -0.0069 | -1.1568 | 1.0826 | -0.0642 | 0.0006 | |
| Node 119: 1: Pesi propri | -0.0141 | 0.0005 | -0.1151 | 0.1139 | -0.0035 | 0.0001 | |
| Node 119: 2: Perm port | -0.0092 | 0.0006 | -0.0819 | 0.1344 | -0.0011 | 0.0001 | |
| Node 119: 3: Variabile | -0.0368 | 0.0023 | -0.3276 | 0.5377 | -0.0045 | 0.0002 | |
| Node 119: 4: SLE_g [Combination 1] | -0.0233 | 0.0011 | -0.1970 | 0.2484 | -0.0046 | 0.0001 | |
| Node 119: 5: SLE_q [Combination 2] | -0.0368 | 0.0023 | -0.3276 | 0.5377 | -0.0045 | 0.0002 | |
| Node 119: 6: SLE_tot [Combination 3] | -0.0600 | 0.0034 | -0.5246 | 0.7861 | -0.0092 | 0.0004 | |
| Node 119: 7: SLU [Combination 4] | -0.0872 | 0.0049 | -0.7638 | 1.1564 | -0.0130 | 0.0005 | |
| Node 120: 1: Pesi propri | -0.0135 | 0.0005 | -0.1049 | 0.1147 | -0.0007 | 0.0000 | |
| Node 120: 2: Perm port | -0.0088 | 0.0006 | -0.0808 | 0.1358 | 0.0005 | 0.0000 | |
| Node 120: 3: Variabile | -0.0352 | 0.0025 | -0.3230 | 0.5432 | 0.0021 | -0.0001 | |
| Node 120: 4: SLE_g [Combination 1] | -0.0222 | 0.0012 | -0.1856 | 0.2505 | -0.0001 | -0.0001 | |
| Node 120: 5: SLE_q [Combination 2] | -0.0352 | 0.0025 | -0.3230 | 0.5432 | 0.0021 | -0.0001 | |
| Node 120: 6: SLE_tot [Combination 3] | -0.0574 | 0.0037 | -0.5086 | 0.7937 | 0.0020 | -0.0002 | |
| Node 120: 7: SLU [Combination 4] | -0.0834 | 0.0054 | -0.7420 | 1.1676 | 0.0031 | -0.0003 | |
| Node 121: 1: Pesi propri | -0.0128 | 0.0003 | -0.1055 | 0.1154 | 0.0007 | -0.0001 | |
| Node 121: 2: Perm port | -0.0084 | 0.0003 | -0.0857 | 0.1372 | 0.0012 | -0.0001 | |
| Node 121: 3: Variabile | -0.0336 | 0.0014 | -0.3429 | 0.5487 | 0.0048 | -0.0003 | |
| Node 121: 4: SLE_g [Combination 1] | -0.0212 | 0.0006 | -0.1912 | 0.2526 | 0.0019 | -0.0001 | |
| Node 121: 5: SLE_q [Combination 2] | -0.0336 | 0.0014 | -0.3429 | 0.5487 | 0.0048 | -0.0003 | |
| Node 121: 6: SLE_tot [Combination 3] | -0.0548 | 0.0020 | -0.5341 | 0.8013 | 0.0067 | -0.0004 | |
| Node 121: 7: SLU [Combination 4] | -0.0796 | 0.0030 | -0.7801 | 1.1789 | 0.0099 | -0.0006 | |
| Node 122: 1: Pesi propri | -0.0116 | -0.0001 | -0.1120 | 0.1161 | 0.0001 | 0.0000 | |
| Node 122: 2: Perm port | -0.0076 | -0.0002 | -0.0939 | 0.1385 | 0.0000 | 0.0000 | |
| Node 122: 3: Variabile | -0.0304 | -0.0007 | -0.3758 | 0.5542 | 0.0002 | -0.0001 | |
| Node 122: 4: SLE_g [Combination 1] | -0.0192 | -0.0003 | -0.2059 | 0.2547 | 0.0001 | 0.0000 | |

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|--------------------------------------|---------|---------|---------|---------|---------|---------|
| Node 122: 5: SLE_q [Combination 2] | -0.0304 | -0.0007 | -0.3758 | 0.5542 | 0.0002 | -0.0001 |
| Node 122: 6: SLE_tot [Combination 3] | -0.0496 | -0.0010 | -0.5817 | 0.8089 | 0.0003 | -0.0001 |
| Node 122: 7: SLU [Combination 4] | -0.0721 | -0.0015 | -0.8501 | 1.1901 | 0.0004 | -0.0001 |
| Node 123: 1: Pesi propri | -0.0110 | -0.0002 | 0.1161 | -0.0008 | 0.0000 | |
| Node 123: 2: Perm port | -0.0072 | -0.0002 | 0.1385 | -0.0008 | 0.0000 | |
| Node 123: 3: Variabile | -0.0288 | -0.0008 | 0.5542 | -0.0031 | 0.0000 | |
| Node 123: 4: SLE_g [Combination 1] | -0.0182 | -0.0004 | -0.2021 | 0.2547 | -0.0016 | 0.0000 |
| Node 123: 5: SLE_q [Combination 2] | -0.0288 | -0.0008 | -0.3681 | 0.5542 | -0.0031 | 0.0000 |
| Node 123: 6: SLE_tot [Combination 3] | -0.0470 | -0.0012 | -0.5702 | 0.8088 | -0.0047 | 0.0000 |
| Node 123: 7: SLU [Combination 4] | -0.0683 | -0.0017 | -0.8332 | 1.1900 | -0.0068 | 0.0001 |
| Node 124: 1: Pesi propri | -0.0104 | -0.0001 | 0.1161 | -0.0017 | 0.0000 | |
| Node 124: 2: Perm port | -0.0068 | -0.0001 | 0.1385 | -0.0016 | 0.0000 | |
| Node 124: 3: Variabile | -0.0272 | -0.0005 | 0.5541 | -0.0063 | 0.0001 | |
| Node 124: 4: SLE_g [Combination 1] | -0.0172 | -0.0002 | -0.1893 | 0.2547 | -0.0033 | 0.0000 |
| Node 124: 5: SLE_q [Combination 2] | -0.0272 | -0.0005 | -0.3436 | 0.5541 | -0.0063 | 0.0001 |
| Node 124: 6: SLE_tot [Combination 3] | -0.0444 | -0.0008 | -0.5329 | 0.8088 | -0.0096 | 0.0001 |
| Node 124: 7: SLU [Combination 4] | -0.0645 | -0.0012 | -0.7787 | 1.1899 | -0.0140 | 0.0001 |
| Node 125: 1: Pesi propri | -0.0088 | 0.0000 | 0.1150 | -0.0023 | 0.0000 | |
| Node 125: 2: Perm port | -0.0058 | 0.0000 | 0.1371 | -0.0022 | 0.0000 | |
| Node 125: 3: Variabile | -0.0230 | 0.0000 | 0.5485 | -0.0089 | 0.0000 | |
| Node 125: 4: SLE_g [Combination 1] | -0.0146 | 0.0000 | -0.1235 | 0.2521 | -0.0045 | 0.0000 |
| Node 125: 5: SLE_q [Combination 2] | -0.0230 | 0.0000 | -0.2172 | 0.5485 | -0.0089 | 0.0000 |
| Node 125: 6: SLE_tot [Combination 3] | -0.0376 | 0.0000 | -0.3407 | 0.8006 | -0.0134 | 0.0000 |
| Node 125: 7: SLU [Combination 4] | -0.0546 | 0.0000 | -0.4973 | 1.1779 | -0.0197 | 0.0000 |
| Node 126: 1: Pesi propri | -0.0082 | 0.0000 | 0.1143 | -0.0005 | 0.0000 | |
| Node 126: 2: Perm port | -0.0054 | 0.0000 | 0.1363 | -0.0009 | 0.0000 | |
| Node 126: 3: Variabile | -0.0215 | 0.0000 | 0.5452 | -0.0035 | 0.0000 | |
| Node 126: 4: SLE_g [Combination 1] | -0.0136 | 0.0000 | -0.1077 | 0.2506 | -0.0014 | 0.0000 |
| Node 126: 5: SLE_q [Combination 2] | -0.0215 | 0.0000 | -0.1845 | 0.5452 | -0.0035 | 0.0000 |
| Node 126: 6: SLE_tot [Combination 3] | -0.0351 | 0.0000 | -0.2922 | 0.7958 | -0.0049 | 0.0000 |
| Node 126: 7: SLU [Combination 4] | -0.0510 | 0.0000 | -0.4259 | 1.1709 | -0.0073 | 0.0000 |
| Node 127: 1: Pesi propri | -0.0076 | 0.0000 | 0.1136 | 0.0025 | 0.0000 | |
| Node 127: 2: Perm port | -0.0050 | 0.0000 | 0.1355 | 0.0014 | 0.0000 | |
| Node 127: 3: Variabile | -0.0199 | 0.0000 | 0.5420 | 0.0057 | 0.0000 | |
| Node 127: 4: SLE_g [Combination 1] | -0.0126 | 0.0000 | -0.1130 | 0.2491 | 0.0039 | 0.0000 |
| Node 127: 5: SLE_q [Combination 2] | -0.0199 | 0.0000 | -0.1883 | 0.5420 | 0.0057 | 0.0000 |
| Node 127: 6: SLE_tot [Combination 3] | -0.0326 | 0.0000 | -0.3012 | 0.7910 | 0.0096 | 0.0000 |
| Node 127: 7: SLU [Combination 4] | -0.0473 | 0.0000 | -0.4387 | 1.1638 | 0.0139 | 0.0000 |
| Node 128: 1: Pesi propri | -0.0065 | 0.0000 | 0.1143 | 0.0091 | 0.0000 | |
| Node 128: 2: Perm port | -0.0043 | 0.0000 | 0.1363 | 0.0064 | 0.0000 | |
| Node 128: 3: Variabile | -0.0170 | 0.0001 | 0.5454 | 0.0255 | 0.0000 | |
| Node 128: 4: SLE_g [Combination 1] | -0.0108 | 0.0000 | -0.2174 | 0.2506 | 0.0154 | 0.0000 |
| Node 128: 5: SLE_q [Combination 2] | -0.0170 | 0.0001 | -0.3566 | 0.5454 | 0.0255 | 0.0000 |
| Node 128: 6: SLE_tot [Combination 3] | -0.0278 | 0.0001 | -0.5740 | 0.7960 | 0.0410 | 0.0000 |
| Node 128: 7: SLU [Combination 4] | -0.0404 | 0.0002 | -0.8354 | 1.1712 | 0.0596 | 0.0000 |
| Node 129: 1: Pesi propri | -0.0060 | 0.0000 | 0.1150 | 0.0100 | 0.0000 | |
| Node 129: 2: Perm port | -0.0039 | 0.0000 | 0.1372 | 0.0072 | 0.0000 | |
| Node 129: 3: Variabile | -0.0156 | 0.0001 | 0.5487 | 0.0288 | 0.0000 | |
| Node 129: 4: SLE_g [Combination 1] | -0.0099 | 0.0000 | -0.3004 | 0.2522 | 0.0172 | 0.0000 |
| Node 129: 5: SLE_q [Combination 2] | -0.0156 | 0.0001 | -0.4949 | 0.5487 | 0.0288 | 0.0000 |
| Node 129: 6: SLE_tot [Combination 3] | -0.0254 | 0.0001 | -0.7953 | 0.8008 | 0.0460 | 0.0000 |
| Node 129: 7: SLU [Combination 4] | -0.0369 | 0.0001 | -1.1577 | 1.1783 | 0.0670 | 0.0000 |
| Node 130: 1: Pesi propri | -0.0054 | 0.0000 | 0.1157 | 0.0093 | 0.0000 | |
| Node 130: 2: Perm port | -0.0035 | 0.0000 | 0.1380 | 0.0068 | 0.0000 | |
| Node 130: 3: Variabile | -0.0141 | -0.0001 | 0.5520 | 0.0273 | -0.0001 | |
| Node 130: 4: SLE_g [Combination 1] | -0.0089 | -0.0001 | -0.3852 | 0.2537 | 0.0162 | 0.0000 |
| Node 130: 5: SLE_q [Combination 2] | -0.0141 | -0.0001 | -0.6376 | 0.5520 | 0.0273 | -0.0001 |
| Node 130: 6: SLE_tot [Combination 3] | -0.0231 | -0.0002 | -1.0228 | 0.8056 | 0.0434 | -0.0001 |
| Node 130: 7: SLU [Combination 4] | -0.0335 | -0.0003 | -1.4890 | 1.1853 | 0.0633 | -0.0001 |
| Node 131: 1: Pesi propri | -0.0043 | -0.0002 | 0.1161 | 0.0046 | 0.0000 | |
| Node 131: 2: Perm port | -0.0028 | -0.0003 | 0.1385 | 0.0033 | 0.0000 | |
| Node 131: 3: Variabile | -0.0112 | -0.0012 | 0.5542 | 0.0134 | -0.0001 | |
| Node 131: 4: SLE_g [Combination 1] | -0.0071 | -0.0005 | -0.5099 | 0.2547 | 0.0079 | 0.0000 |
| Node 131: 5: SLE_q [Combination 2] | -0.0112 | -0.0012 | -0.8481 | 0.5542 | 0.0134 | -0.0001 |
| Node 131: 6: SLE_tot [Combination 3] | -0.0183 | -0.0017 | -1.3581 | 0.8088 | 0.0213 | -0.0002 |
| Node 131: 7: SLU [Combination 4] | -0.0266 | -0.0025 | -1.9775 | 1.1900 | 0.0310 | -0.0002 |
| Node 132: 1: Pesi propri | -0.0038 | -0.0003 | 0.1161 | 0.0014 | 0.0000 | |
| Node 132: 2: Perm port | -0.0024 | -0.0004 | 0.1385 | 0.0011 | 0.0000 | |
| Node 132: 3: Variabile | -0.0098 | -0.0015 | 0.5542 | 0.0045 | 0.0000 | |
| Node 132: 4: SLE_g [Combination 1] | -0.0062 | -0.0007 | -0.5363 | 0.2547 | 0.0025 | 0.0000 |
| Node 132: 5: SLE_q [Combination 2] | -0.0098 | -0.0015 | -0.8933 | 0.5542 | 0.0045 | 0.0000 |
| Node 132: 6: SLE_tot [Combination 3] | -0.0160 | -0.0022 | -1.4296 | 0.8089 | 0.0070 | 0.0000 |
| Node 132: 7: SLU [Combination 4] | -0.0232 | -0.0032 | -2.0818 | 1.1901 | 0.0102 | 0.0000 |
| Node 133: 1: Pesi propri | -0.0032 | -0.0002 | 0.1162 | -0.0021 | 0.0000 | |
| Node 133: 2: Perm port | -0.0021 | -0.0003 | 0.1386 | -0.0014 | 0.0000 | |
| Node 133: 3: Variabile | -0.0083 | -0.0011 | 0.5542 | -0.0055 | 0.0002 | |
| Node 133: 4: SLE_g [Combination 1] | -0.0053 | -0.0005 | -0.5342 | 0.2547 | -0.0034 | 0.0001 |
| Node 133: 5: SLE_q [Combination 2] | -0.0083 | -0.0011 | -0.8912 | 0.5542 | -0.0055 | 0.0002 |
| Node 133: 6: SLE_tot [Combination 3] | -0.0136 | -0.0017 | -1.4254 | 0.8089 | -0.0089 | 0.0003 |

| | | | | | | |
|--------------------------------------|---------|---------|---------|---------|---------|---------|
| Node 133: 7: SLU [Combination 4] | -0.0198 | -0.0025 | -2.0758 | 1.1902 | -0.0129 | 0.0004 |
| Node 134: 1: Pesì propri | -0.0021 | 0.0006 | -0.2551 | 0.1157 | -0.0089 | 0.0001 |
| Node 134: 2: Perm port | -0.0014 | 0.0007 | -0.1824 | 0.1381 | -0.0065 | 0.0001 |
| Node 134: 3: Variabile | -0.0054 | 0.0029 | -0.7295 | 0.5522 | -0.0259 | 0.0005 |
| Node 134: 4: SLE_g [Combination 1] | -0.0035 | 0.0013 | -0.4374 | 0.2538 | -0.0153 | 0.0002 |
| Node 134: 5: SLE_q [Combination 2] | -0.0054 | 0.0029 | -0.7295 | 0.5522 | -0.0259 | 0.0005 |
| Node 134: 6: SLE_tot [Combination 3] | -0.0089 | 0.0042 | -1.1670 | 0.8060 | -0.0412 | 0.0007 |
| Node 134: 7: SLU [Combination 4] | -0.0129 | 0.0062 | -1.6994 | 1.1859 | -0.0600 | 0.0011 |
| Node 135: 1: Pesì propri | -0.0016 | 0.0010 | -0.2042 | 0.1154 | -0.0112 | 0.0000 |
| Node 135: 2: Perm port | -0.0010 | 0.0012 | -0.1454 | 0.1376 | -0.0082 | 0.0000 |
| Node 135: 3: Variabile | -0.0040 | 0.0047 | -0.5817 | 0.5505 | -0.0326 | 0.0002 |
| Node 135: 4: SLE_g [Combination 1] | -0.0025 | 0.0022 | -0.3497 | 0.2530 | -0.0194 | 0.0001 |
| Node 135: 5: SLE_q [Combination 2] | -0.0040 | 0.0047 | -0.5817 | 0.5505 | -0.0326 | 0.0002 |
| Node 135: 6: SLE_tot [Combination 3] | -0.0065 | 0.0068 | -0.9313 | 0.8035 | -0.0520 | 0.0002 |
| Node 135: 7: SLU [Combination 4] | -0.0095 | 0.0101 | -1.3561 | 1.1821 | -0.0758 | 0.0003 |
| Node 136: 1: Pesì propri | -0.0010 | 0.0008 | -0.1440 | 0.1150 | -0.0126 | -0.0001 |
| Node 136: 2: Perm port | -0.0006 | 0.0010 | -0.1017 | 0.1372 | -0.0092 | -0.0001 |
| Node 136: 3: Variabile | -0.0025 | 0.0038 | -0.4066 | 0.5487 | -0.0367 | -0.0006 |
| Node 136: 4: SLE_g [Combination 1] | -0.0016 | 0.0018 | -0.2457 | 0.2522 | -0.0218 | -0.0003 |
| Node 136: 5: SLE_q [Combination 2] | -0.0025 | 0.0038 | -0.4066 | 0.5487 | -0.0367 | -0.0006 |
| Node 136: 6: SLE_tot [Combination 3] | -0.0042 | 0.0056 | -0.6523 | 0.8009 | -0.0585 | -0.0008 |
| Node 136: 7: SLU [Combination 4] | -0.0060 | 0.0082 | -0.9496 | 1.1784 | -0.0852 | -0.0012 |
| Node 137: 1: Pesì propri | -0.0144 | 0.0000 | 0.2854 | -0.1146 | -0.0165 | 0.0001 |
| Node 137: 2: Perm port | -0.0094 | 0.0000 | 0.3727 | -0.0997 | -0.0089 | 0.0001 |
| Node 137: 3: Variabile | -0.0377 | -0.0002 | 1.4910 | -0.3988 | -0.0355 | 0.0004 |
| Node 137: 4: SLE_g [Combination 1] | -0.0238 | -0.0001 | 0.6581 | -0.2143 | -0.0254 | 0.0002 |
| Node 137: 5: SLE_q [Combination 2] | -0.0377 | -0.0002 | 1.4910 | -0.3988 | -0.0355 | 0.0004 |
| Node 137: 6: SLE_tot [Combination 3] | -0.0615 | -0.0003 | 2.1491 | -0.6132 | -0.0609 | 0.0006 |
| Node 137: 7: SLU [Combination 4] | -0.0894 | -0.0004 | 3.1666 | -0.8968 | -0.0880 | 0.0008 |
| Node 138: 1: Pesì propri | -0.0160 | -0.0001 | 0.5444 | -0.1131 | -0.0070 | -0.0002 |
| Node 138: 2: Perm port | -0.0113 | -0.0001 | 0.7103 | -0.1325 | -0.0028 | -0.0002 |
| Node 138: 3: Variabile | -0.0452 | -0.0004 | 2.8413 | -0.5298 | -0.0112 | -0.0008 |
| Node 138: 4: SLE_g [Combination 1] | -0.0273 | -0.0002 | 1.2547 | -0.2455 | -0.0098 | -0.0004 |
| Node 138: 5: SLE_q [Combination 2] | -0.0452 | -0.0004 | 2.8413 | -0.5298 | -0.0112 | -0.0008 |
| Node 138: 6: SLE_tot [Combination 3] | -0.0725 | -0.0005 | 4.0961 | -0.7753 | -0.0210 | -0.0012 |
| Node 138: 7: SLU [Combination 4] | -0.1055 | -0.0008 | 6.0352 | -1.1404 | -0.0301 | -0.0018 |
| Node 139: 1: Pesì propri | -0.0121 | -0.0001 | 0.5764 | -0.1150 | 0.0011 | 0.0000 |
| Node 139: 2: Perm port | -0.0080 | -0.0002 | 0.7256 | -0.1372 | 0.0012 | 0.0001 |
| Node 139: 3: Variabile | -0.0321 | -0.0006 | 2.9026 | -0.5489 | 0.0049 | 0.0002 |
| Node 139: 4: SLE_g [Combination 1] | -0.0201 | -0.0003 | 1.3020 | -0.2523 | 0.0023 | 0.0001 |
| Node 139: 5: SLE_q [Combination 2] | -0.0321 | -0.0006 | 2.9026 | -0.5489 | 0.0049 | 0.0002 |
| Node 139: 6: SLE_tot [Combination 3] | -0.0522 | -0.0009 | 4.2046 | -0.8011 | 0.0072 | 0.0003 |
| Node 139: 7: SLU [Combination 4] | -0.0758 | -0.0014 | 6.1916 | -1.1787 | 0.0106 | 0.0005 |
| Node 140: 1: Pesì propri | -0.0100 | 0.0000 | 0.5967 | -0.1151 | -0.0031 | 0.0000 |
| Node 140: 2: Perm port | -0.0067 | 0.0000 | 0.7454 | -0.1372 | -0.0029 | 0.0000 |
| Node 140: 3: Variabile | -0.0269 | -0.0001 | 2.9816 | -0.5490 | -0.0118 | 0.0000 |
| Node 140: 4: SLE_g [Combination 1] | -0.0167 | 0.0000 | 1.3421 | -0.2523 | -0.0060 | 0.0000 |
| Node 140: 5: SLE_q [Combination 2] | -0.0269 | -0.0001 | 2.9816 | -0.5490 | -0.0118 | 0.0000 |
| Node 140: 6: SLE_tot [Combination 3] | -0.0436 | -0.0001 | 4.3238 | -0.8013 | -0.0178 | 0.0000 |
| Node 140: 7: SLU [Combination 4] | -0.0634 | -0.0001 | 6.3663 | -1.1789 | -0.0261 | -0.0001 |
| Node 141: 1: Pesì propri | -0.0075 | 0.0000 | 0.6066 | -0.1124 | 0.0045 | 0.0000 |
| Node 141: 2: Perm port | -0.0050 | 0.0000 | 0.7599 | -0.1340 | 0.0029 | 0.0000 |
| Node 141: 3: Variabile | -0.0201 | -0.0001 | 3.0396 | -0.5361 | 0.0115 | 0.0000 |
| Node 141: 4: SLE_g [Combination 1] | -0.0125 | 0.0000 | 1.3665 | -0.2464 | 0.0073 | 0.0000 |
| Node 141: 5: SLE_q [Combination 2] | -0.0201 | -0.0001 | 3.0396 | -0.5361 | 0.0115 | 0.0000 |
| Node 141: 6: SLE_tot [Combination 3] | -0.0326 | -0.0001 | 4.4061 | -0.7825 | 0.0188 | 0.0000 |
| Node 141: 7: SLU [Combination 4] | -0.0474 | -0.0002 | 6.4878 | -1.1513 | 0.0273 | 0.0000 |
| Node 142: 1: Pesì propri | -0.0050 | 0.0000 | 0.4332 | -0.1151 | 0.0087 | 0.0000 |
| Node 142: 2: Perm port | -0.0033 | 0.0000 | 0.6401 | -0.1372 | 0.0066 | 0.0000 |
| Node 142: 3: Variabile | -0.0133 | -0.0001 | 2.5604 | -0.5490 | 0.0263 | 0.0001 |
| Node 142: 4: SLE_g [Combination 1] | -0.0083 | 0.0000 | 1.0733 | -0.2523 | 0.0152 | 0.0000 |
| Node 142: 5: SLE_q [Combination 2] | -0.0133 | -0.0001 | 2.5604 | -0.5490 | 0.0263 | 0.0001 |
| Node 142: 6: SLE_tot [Combination 3] | -0.0216 | -0.0002 | 3.6336 | -0.8013 | 0.0415 | 0.0001 |
| Node 142: 7: SLU [Combination 4] | -0.0314 | -0.0002 | 5.3638 | -1.1789 | 0.0605 | 0.0001 |
| Node 143: 1: Pesì propri | -0.0033 | -0.0003 | 0.3873 | -0.1150 | -0.0054 | -0.0001 |
| Node 143: 2: Perm port | -0.0025 | -0.0003 | 0.6035 | -0.1372 | -0.0040 | -0.0001 |
| Node 143: 3: Variabile | -0.0100 | -0.0012 | 2.4141 | -0.5488 | -0.0158 | -0.0004 |
| Node 143: 4: SLE_g [Combination 1] | -0.0058 | -0.0006 | 0.9908 | -0.2522 | -0.0093 | -0.0002 |
| Node 143: 5: SLE_q [Combination 2] | -0.0100 | -0.0012 | 2.4141 | -0.5488 | -0.0158 | -0.0004 |
| Node 143: 6: SLE_tot [Combination 3] | -0.0158 | -0.0018 | 3.4050 | -0.8010 | -0.0251 | -0.0006 |
| Node 143: 7: SLU [Combination 4] | -0.0230 | -0.0027 | 5.0300 | -1.1786 | -0.0366 | -0.0009 |
| Node 144: 1: Pesì propri | 0.0017 | -0.0001 | 0.6103 | -0.1137 | -0.0138 | 0.0003 |
| Node 144: 2: Perm port | 0.0022 | -0.0001 | 0.7682 | -0.1357 | -0.0105 | 0.0004 |
| Node 144: 3: Variabile | 0.0089 | -0.0006 | 3.0729 | -0.5427 | -0.0420 | 0.0016 |
| Node 144: 4: SLE_g [Combination 1] | 0.0039 | -0.0003 | 1.3785 | -0.2494 | -0.0242 | 0.0007 |
| Node 144: 5: SLE_q [Combination 2] | 0.0089 | -0.0006 | 3.0729 | -0.5427 | -0.0420 | 0.0016 |
| Node 144: 6: SLE_tot [Combination 3] | 0.0128 | -0.0009 | 4.4514 | -0.7921 | -0.0662 | 0.0024 |
| Node 144: 7: SLU [Combination 4] | 0.0188 | -0.0013 | 6.5551 | -1.1655 | -0.0965 | 0.0035 |
| Node 145: 1: Pesì propri | -0.0142 | -0.0001 | 0.2683 | 0.1143 | -0.0174 | -0.0001 |

| | | | | | | | |
|--------------------------------------|---------|---------|---------|---------|---------|---------|--|
| Node 145: 2: Perm port | -0.0090 | -0.0001 | 0.3554 | 0.0994 | -0.0099 | -0.0001 | |
| Node 145: 3: Variabile | -0.0359 | -0.0006 | 1.4218 | 0.3977 | -0.0395 | -0.0004 | |
| Node 145: 4: SLE_g [Combination 1] | -0.0231 | -0.0003 | 0.6238 | 0.2138 | -0.0272 | -0.0002 | |
| Node 145: 5: SLE_q [Combination 2] | -0.0359 | -0.0006 | 1.4218 | 0.3977 | -0.0395 | -0.0004 | |
| Node 145: 6: SLE_tot [Combination 3] | -0.0591 | -0.0009 | 2.0456 | 0.6115 | -0.0667 | -0.0006 | |
| Node 145: 7: SLU [Combination 4] | -0.0858 | -0.0013 | 3.0147 | 0.8943 | -0.0966 | -0.0009 | |
| Node 146: 1: Pesi propri | -0.0158 | -0.0001 | 0.5469 | 0.1131 | -0.0079 | 0.0002 | |
| Node 146: 2: Perm port | -0.0109 | -0.0001 | 0.7182 | 0.1330 | -0.0038 | 0.0002 | |
| Node 146: 3: Variabile | -0.0435 | -0.0005 | 2.8730 | 0.5321 | -0.0152 | 0.0008 | |
| Node 146: 4: SLE_g [Combination 1] | -0.0266 | -0.0002 | 1.2651 | 0.2461 | -0.0117 | 0.0004 | |
| Node 146: 5: SLE_q [Combination 2] | -0.0435 | -0.0005 | 2.8730 | 0.5321 | -0.0152 | 0.0008 | |
| Node 146: 6: SLE_tot [Combination 3] | -0.0701 | -0.0007 | 4.1381 | 0.7782 | -0.0269 | 0.0012 | |
| Node 146: 7: SLU [Combination 4] | -0.1020 | -0.0010 | 6.0978 | 1.1447 | -0.0388 | 0.0018 | |
| Node 147: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 147: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 147: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 147: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 147: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 147: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 147: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 148: 1: Pesi propri | -0.0149 | -0.0005 | -0.5012 | -0.1147 | -0.0165 | 0.0001 | |
| Node 148: 2: Perm port | -0.0100 | -0.0006 | -0.2829 | -0.0998 | -0.0089 | 0.0001 | |
| Node 148: 3: Variabile | -0.0401 | -0.0022 | -1.1317 | -0.3991 | -0.0355 | 0.0004 | |
| Node 148: 4: SLE_g [Combination 1] | -0.0249 | -0.0010 | -0.7841 | -0.2145 | -0.0254 | 0.0002 | |
| Node 148: 5: SLE_q [Combination 2] | -0.0401 | -0.0022 | -1.1317 | -0.3991 | -0.0355 | 0.0004 | |
| Node 148: 6: SLE_tot [Combination 3] | -0.0650 | -0.0032 | -1.9158 | -0.6136 | -0.0609 | 0.0006 | |
| Node 148: 7: SLU [Combination 4] | -0.0945 | -0.0048 | -2.7735 | -0.8974 | -0.0880 | 0.0008 | |
| Node 149: 1: Pesi propri | -0.0147 | 0.0003 | -0.5211 | 0.1144 | -0.0174 | -0.0001 | |
| Node 149: 2: Perm port | -0.0096 | 0.0004 | -0.3037 | 0.0995 | -0.0099 | -0.0001 | |
| Node 149: 3: Variabile | -0.0384 | 0.0015 | -1.2150 | 0.3980 | -0.0395 | -0.0004 | |
| Node 149: 4: SLE_g [Combination 1] | -0.0243 | 0.0007 | -0.8249 | 0.2139 | -0.0273 | -0.0002 | |
| Node 149: 5: SLE_q [Combination 2] | -0.0384 | 0.0015 | -1.2150 | 0.3980 | -0.0395 | -0.0004 | |
| Node 149: 6: SLE_tot [Combination 3] | -0.0626 | 0.0022 | -2.0398 | 0.6119 | -0.0668 | -0.0006 | |
| Node 149: 7: SLU [Combination 4] | -0.0910 | 0.0032 | -2.9555 | 0.8949 | -0.0967 | -0.0009 | |
| Node 150: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 150: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 150: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 150: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 150: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 150: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 150: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 151: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 151: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 151: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 151: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 151: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 151: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |
| Node 151: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | |

G.2.3. Sollecitazione beam

| | Shear Force 2 (N) | Bending Moment 2 (N.mm) | Axial Force (N) | |
|---|----------------------|----------------------------|--------------------|-----------|
| Beam 1: End 1: 1: Pesi propri | -757.4984 | 528121.2461 | -10.2280 | |
| Beam 1: End 1: 2: Perm port | -658.8750 | 459362.2855 | -12.0039 | |
| Beam 1: End 1: 3: Variabile | -2635.5000 | 1837449.1420 | -48.0158 | |
| Beam 1: End 1: 4: SLE_g [Combination 1] | | -1416.3734 | 987483.5316 | -22.2319 |
| Beam 1: End 1: 5: SLE_q [Combination 2] | | -2635.5000 | 1837449.1420 | -48.0158 |
| Beam 1: End 1: 6: SLE_tot [Combination 3] | | -4051.8734 | 2824932.6736 | -70.2477 |
| Beam 1: End 1: 7: SLU [Combination 4] | | -5926.3104 | 4131774.7611 | -103.3260 |
| Beam 1: End 2: 1: Pesi propri | -950.6454 | -18484.7874 | -10.2280 | |
| Beam 1: End 2: 2: Perm port | -826.8750 | -16077.7135 | -12.0039 | |
| Beam 1: End 2: 3: Variabile | -3307.5000 | -64310.8541 | -48.0158 | |
| Beam 1: End 2: 4: SLE_g [Combination 1] | | -1777.5204 | -34562.5009 | -22.2319 |
| Beam 1: End 2: 5: SLE_q [Combination 2] | | -3307.5000 | -64310.8541 | -48.0158 |
| Beam 1: End 2: 6: SLE_tot [Combination 3] | | -5085.0204 | -98873.3550 | -70.2477 |
| Beam 1: End 2: 7: SLU [Combination 4] | | -7437.4015 | -144613.0750 | -103.3260 |
| Beam 2: End 1: 1: Pesi propri | -757.4991 | 516207.9939 | -2.5571 | |
| Beam 2: End 1: 2: Perm port | -883.0335 | 612760.5306 | -3.0016 | |
| Beam 2: End 1: 3: Variabile | -3532.1341 | 2451042.1223 | -12.0064 | |
| Beam 2: End 1: 4: SLE_g [Combination 1] | | -1640.5326 | 1128968.5245 | -5.5586 |
| Beam 2: End 1: 5: SLE_q [Combination 2] | | -3532.1341 | 2451042.1223 | -12.0064 |
| Beam 2: End 1: 6: SLE_tot [Combination 3] | | -5172.6667 | 3580010.6467 | -17.5650 |

| | | | |
|---|------------|--------------|----------|
| Beam 2: End 1: 7: SLU [Combination 4] | -7607.5003 | 5266774.3713 | -25.8361 |
| Beam 2: End 2: 1: Pesi propri | -950.6461 | -30398.4655 | -2.5571 |
| Beam 2: End 2: 2: Perm port | -1108.6335 | -24572.9291 | -3.0016 |
| Beam 2: End 2: 3: Variabile | -4434.5341 | -98291.7162 | -12.0064 |
| Beam 2: End 2: 4: SLE_g [Combination 1] | -2059.2796 | -54971.3945 | -5.5586 |
| Beam 2: End 2: 5: SLE_q [Combination 2] | -4434.5341 | -98291.7162 | -12.0064 |
| Beam 2: End 2: 6: SLE_tot [Combination 3] | -6493.8138 | -153263.1108 | -17.5650 |
| Beam 2: End 2: 7: SLU [Combination 4] | -9550.5914 | -223814.9731 | -25.8361 |
| Beam 3: End 1: 1: Pesi propri | -754.5643 | 544728.1819 | 15.6976 |
| Beam 3: End 1: 2: Perm port | -900.1000 | 649791.9360 | 18.4148 |
| Beam 3: End 1: 3: Variabile | -3600.4000 | 2599167.7442 | 73.6590 |
| Beam 3: End 1: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1179 | 34.1124 |
| Beam 3: End 1: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.7442 | 73.6590 |
| Beam 3: End 1: 6: SLE_tot [Combination 3] | -5255.0643 | 3793687.8621 | 107.7714 |
| Beam 3: End 1: 7: SLU [Combination 4] | -7731.6836 | 5581586.1568 | 158.5175 |
| Beam 3: End 2: 1: Pesi propri | -947.7113 | -0.0351 | 15.6976 |
| Beam 3: End 2: 2: Perm port | -1130.5000 | -0.0649 | 18.4148 |
| Beam 3: End 2: 3: Variabile | -4522.0000 | -0.2596 | 73.6590 |
| Beam 3: End 2: 4: SLE_g [Combination 1] | -2078.2113 | -0.1000 | 34.1124 |
| Beam 3: End 2: 5: SLE_q [Combination 2] | -4522.0000 | -0.2596 | 73.6590 |
| Beam 3: End 2: 6: SLE_tot [Combination 3] | -6600.2114 | -0.3597 | 107.7714 |
| Beam 3: End 2: 7: SLU [Combination 4] | -9710.7748 | -0.5325 | 158.5175 |
| Beam 4: End 1: 1: Pesi propri | -754.5643 | 544728.1825 | -3.7936 |
| Beam 4: End 1: 2: Perm port | -900.1000 | 649791.9603 | -4.4576 |
| Beam 4: End 1: 3: Variabile | -3600.4000 | 2599167.8413 | -17.8302 |
| Beam 4: End 1: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1428 | -8.2511 |
| Beam 4: End 1: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.8413 | -17.8302 |
| Beam 4: End 1: 6: SLE_tot [Combination 3] | -5255.0643 | 3793687.9841 | -26.0814 |
| Beam 4: End 1: 7: SLU [Combination 4] | -7731.6836 | 5581586.3396 | -38.3633 |
| Beam 4: End 2: 1: Pesi propri | -947.7113 | -0.0334 | -3.7936 |
| Beam 4: End 2: 2: Perm port | -1130.5000 | -0.0398 | -4.4576 |
| Beam 4: End 2: 3: Variabile | -4522.0000 | -0.1594 | -17.8302 |
| Beam 4: End 2: 4: SLE_g [Combination 1] | -2078.2113 | -0.0733 | -8.2511 |
| Beam 4: End 2: 5: SLE_q [Combination 2] | -4522.0000 | -0.1594 | -17.8302 |
| Beam 4: End 2: 6: SLE_tot [Combination 3] | -6600.2113 | -0.2327 | -26.0814 |
| Beam 4: End 2: 7: SLU [Combination 4] | -9710.7747 | -0.3423 | -38.3633 |
| Beam 5: End 1: 1: Pesi propri | -754.5917 | 520825.2029 | 2.1520 |
| Beam 5: End 1: 2: Perm port | -900.1327 | 621278.7079 | 2.5554 |
| Beam 5: End 1: 3: Variabile | -3600.5308 | 2485114.8316 | 10.2216 |
| Beam 5: End 1: 4: SLE_g [Combination 1] | -1654.7244 | 1142103.9108 | 4.7074 |
| Beam 5: End 1: 5: SLE_q [Combination 2] | -3600.5308 | 2485114.8316 | 10.2216 |
| Beam 5: End 1: 6: SLE_tot [Combination 3] | -5255.2552 | 3627218.7424 | 14.9290 |
| Beam 5: End 1: 7: SLU [Combination 4] | -7731.9645 | 5336663.0731 | 21.9631 |
| Beam 5: End 2: 1: Pesi propri | -947.7387 | -23920.5537 | 2.1520 |
| Beam 5: End 2: 2: Perm port | -1130.5327 | -28534.2200 | 2.5554 |
| Beam 5: End 2: 3: Variabile | -4522.1308 | -114136.8799 | 10.2216 |
| Beam 5: End 2: 4: SLE_g [Combination 1] | -2078.2714 | -52454.7737 | 4.7074 |
| Beam 5: End 2: 5: SLE_q [Combination 2] | -4522.1308 | -114136.8799 | 10.2216 |
| Beam 5: End 2: 6: SLE_tot [Combination 3] | -6600.4022 | -166591.6537 | 14.9290 |
| Beam 5: End 2: 7: SLU [Combination 4] | -9711.0556 | -245103.3698 | 21.9631 |
| Beam 6: End 1: 1: Pesi propri | -754.5643 | 544728.1825 | -6.7080 |
| Beam 6: End 1: 2: Perm port | -900.1000 | 649791.9603 | -7.9988 |
| Beam 6: End 1: 3: Variabile | -3600.4000 | 2599167.8413 | -31.9953 |
| Beam 6: End 1: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1428 | -14.7068 |
| Beam 6: End 1: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.8413 | -31.9953 |
| Beam 6: End 1: 6: SLE_tot [Combination 3] | -5255.0643 | 3793687.9841 | -46.7021 |
| Beam 6: End 1: 7: SLU [Combination 4] | -7731.6836 | 5581586.3396 | -68.7115 |
| Beam 6: End 2: 1: Pesi propri | -947.7113 | -0.0334 | -6.7080 |
| Beam 6: End 2: 2: Perm port | -1130.5000 | -0.0398 | -7.9988 |
| Beam 6: End 2: 3: Variabile | -4522.0000 | -0.1594 | -31.9953 |
| Beam 6: End 2: 4: SLE_g [Combination 1] | -2078.2113 | -0.0733 | -14.7068 |
| Beam 6: End 2: 5: SLE_q [Combination 2] | -4522.0000 | -0.1594 | -31.9953 |
| Beam 6: End 2: 6: SLE_tot [Combination 3] | -6600.2113 | -0.2327 | -46.7021 |
| Beam 6: End 2: 7: SLU [Combination 4] | -9710.7747 | -0.3423 | -68.7115 |
| Beam 7: End 1: 1: Pesi propri | -754.5643 | 544728.1978 | 29.6523 |
| Beam 7: End 1: 2: Perm port | -900.1000 | 649791.9786 | 35.3773 |
| Beam 7: End 1: 3: Variabile | -3600.4000 | 2599167.9145 | 141.5093 |
| Beam 7: End 1: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1764 | 65.0296 |
| Beam 7: End 1: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.9145 | 141.5093 |
| Beam 7: End 1: 6: SLE_tot [Combination 3] | -5255.0643 | 3793688.0909 | 206.5390 |
| Beam 7: End 1: 7: SLU [Combination 4] | -7731.6836 | 5581586.4968 | 303.8780 |
| Beam 7: End 2: 1: Pesi propri | -947.7113 | -0.0183 | 29.6523 |
| Beam 7: End 2: 2: Perm port | -1130.5000 | -0.0218 | 35.3773 |
| Beam 7: End 2: 3: Variabile | -4522.0000 | -0.0873 | 141.5093 |
| Beam 7: End 2: 4: SLE_g [Combination 1] | -2078.2113 | -0.0401 | 65.0296 |
| Beam 7: End 2: 5: SLE_q [Combination 2] | -4522.0000 | -0.0873 | 141.5093 |
| Beam 7: End 2: 6: SLE_tot [Combination 3] | -6600.2113 | -0.1274 | 206.5390 |
| Beam 7: End 2: 7: SLU [Combination 4] | -9710.7747 | -0.1875 | 303.8780 |
| Beam 8: End 1: 1: Pesi propri | -754.5776 | 532706.1447 | -24.2153 |

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|--|-------------|----------------|------------|--|
| Beam 8: End 1: 2: Perm port | -900.1158 | 635451.2131 | -28.8856 | |
| Beam 8: End 1: 3: Variabile | -3600.4632 | 2541804.8522 | -115.5423 | |
| Beam 8: End 1: 4: SLE_g [Combination 1] | -1654.6934 | 1168157.3577 | -53.1008 | |
| Beam 8: End 1: 5: SLE_q [Combination 2] | -3600.4632 | 2541804.8522 | -115.5423 | |
| Beam 8: End 1: 6: SLE_tot [Combination 3] | -5255.1565 | 3709962.2100 | -168.6432 | |
| Beam 8: End 1: 7: SLU [Combination 4] | -7731.8193 | 5458402.0860 | -248.1217 | |
| Beam 8: End 2: 1: Pesi propri | -947.7246 | -12030.5502 | -24.2153 | |
| Beam 8: End 2: 2: Perm port | -1130.5158 | -14350.8949 | -28.8856 | |
| Beam 8: End 2: 3: Variabile | -4522.0632 | -57403.5796 | -115.5423 | |
| Beam 8: End 2: 4: SLE_g [Combination 1] | -2078.2404 | -26381.4451 | -53.1008 | |
| Beam 8: End 2: 5: SLE_q [Combination 2] | -4522.0632 | -57403.5796 | -115.5423 | |
| Beam 8: End 2: 6: SLE_tot [Combination 3] | -6600.3036 | -83785.0247 | -168.6432 | |
| Beam 8: End 2: 7: SLU [Combination 4] | -9710.9104 | -123271.4270 | -248.1217 | |
| Beam 9: End 1: 1: Pesi propri | -1633.5831 | -1246611.8927 | -0.0038 | |
| Beam 9: End 1: 2: Perm port | -918.7500 | -792439.1163 | -0.0096 | |
| Beam 9: End 1: 3: Variabile | -3675.0000 | -3169756.4652 | -0.0384 | |
| Beam 9: End 1: 4: SLE_g [Combination 1] | -2552.3331 | -2039051.0090 | -0.0134 | |
| Beam 9: End 1: 5: SLE_q [Combination 2] | -3675.0000 | -3169756.4652 | -0.0384 | |
| Beam 9: End 1: 6: SLE_tot [Combination 3] | -6227.3331 | -5208807.4742 | -0.0518 | |
| Beam 9: End 1: 7: SLU [Combination 4] | -9014.2831 | -7563888.8328 | -0.0769 | |
| Beam 9: End 2: 1: Pesi propri | -1776.3588 | -1736791.0451 | -0.0038 | |
| Beam 9: End 2: 2: Perm port | -918.7500 | -1056579.7417 | -0.0096 | |
| Beam 9: End 2: 3: Variabile | -3675.0000 | -4226318.9670 | -0.0384 | |
| Beam 9: End 2: 4: SLE_g [Combination 1] | -2695.1088 | -2793370.7869 | -0.0134 | |
| Beam 9: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -4226318.9670 | -0.0384 | |
| Beam 9: End 2: 6: SLE_tot [Combination 3] | -6370.1088 | -7019689.7539 | -0.0518 | |
| Beam 9: End 2: 7: SLU [Combination 4] | -9199.8915 | -10182176.4218 | -0.0769 | |
| Beam 10: End 1: 1: Pesi propri | 1525.7363 | -162515.8577 | 2426.9449 | |
| Beam 10: End 1: 2: Perm port | 1201.5167 | 24768.0846 | 1641.3798 | |
| Beam 10: End 1: 3: Variabile | 4806.0670 | 99072.3386 | 6565.5192 | |
| Beam 10: End 1: 4: SLE_g [Combination 1] | 2727.2531 | -137747.7730 | 4068.3248 | |
| Beam 10: End 1: 5: SLE_q [Combination 2] | 4806.0670 | 99072.3386 | 6565.5192 | |
| Beam 10: End 1: 6: SLE_tot [Combination 3] | 7533.3201 | -38675.4345 | 10633.8440 | |
| Beam 10: End 1: 7: SLU [Combination 4] | 10994.8328 | -25509.9802 | 15465.3770 | |
| Beam 10: End 2: 1: Pesi propri | 1376.7530 | 272857.5430 | 2426.9449 | |
| Beam 10: End 2: 2: Perm port | 1201.5167 | 385223.1090 | 1641.3798 | |
| Beam 10: End 2: 3: Variabile | 4806.0670 | 1540892.4361 | 6565.5192 | |
| Beam 10: End 2: 4: SLE_g [Combination 1] | 2578.2698 | 658080.6520 | 4068.3248 | |
| Beam 10: End 2: 5: SLE_q [Combination 2] | 4806.0670 | 1540892.4361 | 6565.5192 | |
| Beam 10: End 2: 6: SLE_tot [Combination 3] | 7384.3367 | 2198973.0881 | 10633.8440 | |
| Beam 10: End 2: 7: SLU [Combination 4] | 10801.1545 | 3243888.1236 | 15465.3770 | |
| Beam 11: End 1: 1: Pesi propri | -129.4038 | 357515.8965 | 2426.9365 | |
| Beam 11: End 1: 2: Perm port | -61.9833 | 329431.9592 | 1641.3649 | |
| Beam 11: End 1: 3: Variabile | -247.9330 | 1317727.8368 | 6565.4597 | |
| Beam 11: End 1: 4: SLE_g [Combination 1] | -191.3870 | 686947.8557 | 4068.3015 | |
| Beam 11: End 1: 5: SLE_q [Combination 2] | -247.9330 | 1317727.8368 | 6565.4597 | |
| Beam 11: End 1: 6: SLE_tot [Combination 3] | -439.3200 | 2004675.6925 | 10633.7612 | |
| Beam 11: End 1: 7: SLU [Combination 4] | -633.0993 | 2935510.3595 | 15465.2544 | |
| Beam 11: End 2: 1: Pesi propri | -278.3871 | 296347.2602 | 2426.9365 | |
| Beam 11: End 2: 2: Perm port | -61.9833 | 310836.9840 | 1641.3649 | |
| Beam 11: End 2: 3: Variabile | -247.9330 | 1243347.9362 | 6565.4597 | |
| Beam 11: End 2: 4: SLE_g [Combination 1] | -340.3704 | 607184.2443 | 4068.3015 | |
| Beam 11: End 2: 5: SLE_q [Combination 2] | -247.9330 | 1243347.9362 | 6565.4597 | |
| Beam 11: End 2: 6: SLE_tot [Combination 3] | -588.3034 | 1850532.1805 | 10633.7612 | |
| Beam 11: End 2: 7: SLU [Combination 4] | -826.7776 | 2716528.8186 | 15465.2544 | |
| Beam 12: End 1: 1: Pesi propri | -1865.2432 | -1405151.6438 | 2426.9276 | |
| Beam 12: End 1: 2: Perm port | -1325.4833 | -1097478.5542 | 1641.3505 | |
| Beam 12: End 1: 3: Variabile | -5301.9330 | -4389914.2166 | 6565.4020 | |
| Beam 12: End 1: 4: SLE_g [Combination 1] | -3190.7265 | -2502630.1980 | 4068.2781 | |
| Beam 12: End 1: 5: SLE_q [Combination 2] | -5301.9330 | -4389914.2166 | 6565.4020 | |
| Beam 12: End 1: 6: SLE_tot [Combination 3] | -8492.6595 | -6892544.4146 | 10633.6801 | |
| Beam 12: End 1: 7: SLU [Combination 4] | -12365.9406 | -10057786.2931 | 15465.1346 | |
| Beam 12: End 2: 1: Pesi propri | -1933.5272 | -1666317.1131 | 2426.9276 | |
| Beam 12: End 2: 2: Perm port | -1325.4833 | -1279732.5011 | 1641.3505 | |
| Beam 12: End 2: 3: Variabile | -5301.9330 | -5118930.0043 | 6565.4020 | |
| Beam 12: End 2: 4: SLE_g [Combination 1] | -3259.0105 | -2946049.6142 | 4068.2781 | |
| Beam 12: End 2: 5: SLE_q [Combination 2] | -5301.9330 | -5118930.0043 | 6565.4020 | |
| Beam 12: End 2: 6: SLE_tot [Combination 3] | -8560.9435 | -8064979.6185 | 10633.6801 | |
| Beam 12: End 2: 7: SLU [Combination 4] | -12454.7098 | -11764206.0051 | 15465.1346 | |
| Beam 13: End 1: 1: Pesi propri | 1888.3207 | 500159.1762 | 2299.7851 | |
| Beam 13: End 1: 2: Perm port | 1618.9781 | 359482.5592 | 1555.8535 | |
| Beam 13: End 1: 3: Variabile | 6475.9123 | 1437930.2368 | 6223.4140 | |
| Beam 13: End 1: 4: SLE_g [Combination 1] | 3507.2988 | 859641.7354 | 3855.6386 | |
| Beam 13: End 1: 5: SLE_q [Combination 2] | 6475.9123 | 1437930.2368 | 6223.4140 | |
| Beam 13: End 1: 6: SLE_tot [Combination 3] | 9983.2110 | 2297571.9722 | 10079.0526 | |
| Beam 13: End 1: 7: SLU [Combination 4] | 14597.1524 | 3346326.1231 | 14658.6218 | |
| Beam 13: End 2: 1: Pesi propri | 1795.2061 | 845489.8165 | 2299.7851 | |
| Beam 13: End 2: 2: Perm port | 1618.9781 | 663040.9460 | 1555.8535 | |
| Beam 13: End 2: 3: Variabile | 6475.9123 | 2652163.7841 | 6223.4140 | |

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| Beam 13: End 2: 4: SLE_g [Combination 1] | 3414.1842 | 1508530.7626 | 3855.6386 |
| Beam 13: End 2: 5: SLE_q [Combination 2] | 6475.9123 | 2652163.7841 | 6223.4140 |
| Beam 13: End 2: 6: SLE_tot [Combination 3] | 9890.0964 | 4160694.5467 | 10079.0526 |
| Beam 13: End 2: 7: SLU [Combination 4] | 14476.1034 | 6071943.8567 | 14658.6218 |
| Beam 14: End 1: 1: Pesi propri | 258.0111 | 1323848.1981 | 2299.7935 |
| Beam 14: End 1: 2: Perm port | 355.4781 | 1005177.7108 | 1555.8614 |
| Beam 14: End 1: 3: Variabile | 1421.9123 | 4020710.8431 | 6223.4455 |
| Beam 14: End 1: 4: SLE_g [Combination 1] | 613.4892 | 2329025.9089 | 3855.6549 |
| Beam 14: End 1: 5: SLE_q [Combination 2] | 1421.9123 | 4020710.8431 | 6223.4455 |
| Beam 14: End 1: 6: SLE_tot [Combination 3] | 2035.4015 | 6349736.7520 | 10079.1004 |
| Beam 14: End 1: 7: SLU [Combination 4] | 3001.5000 | 9259835.4883 | 14658.6919 |
| Beam 14: End 2: 1: Pesi propri | 140.0660 | 1371119.8581 | 2299.7935 |
| Beam 14: End 2: 2: Perm port | 355.4781 | 1089603.7508 | 1555.8614 |
| Beam 14: End 2: 3: Variabile | 1421.9123 | 4358415.0032 | 6223.4455 |
| Beam 14: End 2: 4: SLE_g [Combination 1] | 495.5441 | 2460723.6089 | 3855.6549 |
| Beam 14: End 2: 5: SLE_q [Combination 2] | 1421.9123 | 4358415.0032 | 6223.4455 |
| Beam 14: End 2: 6: SLE_tot [Combination 3] | 1917.4563 | 6819138.6122 | 10079.1004 |
| Beam 14: End 2: 7: SLU [Combination 4] | 2848.1713 | 9954483.9466 | 14658.6919 |
| Beam 15: End 1: 1: Pesi propri | -1372.2984 | 325655.6176 | 2299.8060 |
| Beam 15: End 1: 2: Perm port | -908.0219 | 261039.5062 | 1555.8751 |
| Beam 15: End 1: 3: Variabile | -3632.0877 | 1044158.0247 | 6223.5003 |
| Beam 15: End 1: 4: SLE_g [Combination 1] | -2280.3204 | 586695.1238 | 3855.6811 |
| Beam 15: End 1: 5: SLE_q [Combination 2] | -3632.0877 | 1044158.0247 | 6223.5003 |
| Beam 15: End 1: 6: SLE_tot [Combination 3] | -5912.4081 | 1630853.1485 | 10079.1814 |
| Beam 15: End 1: 7: SLU [Combination 4] | -8594.1525 | 2381148.5993 | 14658.8109 |
| Beam 15: End 2: 1: Pesi propri | -1515.0741 | -89404.1873 | 2299.8060 |
| Beam 15: End 2: 2: Perm port | -908.0219 | -16.8004 | 1555.8751 |
| Beam 15: End 2: 3: Variabile | -3632.0877 | -67.2016 | 6223.5003 |
| Beam 15: End 2: 4: SLE_g [Combination 1] | -2423.0961 | -89420.9877 | 3855.6811 |
| Beam 15: End 2: 5: SLE_q [Combination 2] | -3632.0877 | -67.2016 | 6223.5003 |
| Beam 15: End 2: 6: SLE_tot [Combination 3] | -6055.1838 | -89488.1894 | 10079.1814 |
| Beam 15: End 2: 7: SLU [Combination 4] | -8779.7609 | -116351.4466 | 14658.8109 |
| Beam 16: End 1: 1: Pesi propri | -1633.5831 | -1246581.8763 | 0.0038 |
| Beam 16: End 1: 2: Perm port | -918.7500 | -792404.6337 | 0.0096 |
| Beam 16: End 1: 3: Variabile | -3675.0000 | -3169618.5348 | 0.0384 |
| Beam 16: End 1: 4: SLE_g [Combination 1] | -2552.3331 | -2038986.5100 | 0.0134 |
| Beam 16: End 1: 5: SLE_q [Combination 2] | -3675.0000 | -3169618.5348 | 0.0384 |
| Beam 16: End 1: 6: SLE_tot [Combination 3] | -6227.3331 | -5208605.0448 | 0.0518 |
| Beam 16: End 1: 7: SLU [Combination 4] | -9014.2830 | -7563591.1920 | 0.0769 |
| Beam 16: End 2: 1: Pesi propri | -1776.3588 | -1736761.0284 | 0.0038 |
| Beam 16: End 2: 2: Perm port | -918.7500 | -1056545.2583 | 0.0096 |
| Beam 16: End 2: 3: Variabile | -3675.0000 | -4226181.0330 | 0.0384 |
| Beam 16: End 2: 4: SLE_g [Combination 1] | -2695.1088 | -2793306.2867 | 0.0134 |
| Beam 16: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -4226181.0330 | 0.0384 |
| Beam 16: End 2: 6: SLE_tot [Combination 3] | -6370.1088 | -7019487.3197 | 0.0518 |
| Beam 16: End 2: 7: SLU [Combination 4] | -9199.8914 | -10181878.7738 | 0.0769 |
| Beam 17: End 1: 1: Pesi propri | 1450.6508 | -230032.8395 | 2390.2377 |
| Beam 17: End 1: 2: Perm port | 1112.3040 | -55454.4204 | 1565.2716 |
| Beam 17: End 1: 3: Variabile | 4449.2160 | -221817.6818 | 6261.0866 |
| Beam 17: End 1: 4: SLE_g [Combination 1] | 2562.9547 | -285487.2599 | 3955.5094 |
| Beam 17: End 1: 5: SLE_q [Combination 2] | 4449.2160 | -221817.6818 | 6261.0866 |
| Beam 17: End 1: 6: SLE_tot [Combination 3] | 7012.1707 | -507304.9417 | 10216.5960 |
| Beam 17: End 1: 7: SLU [Combination 4] | 10228.1259 | -714950.8446 | 14846.8464 |
| Beam 17: End 2: 1: Pesi propri | 1301.6674 | 182814.8859 | 2390.2377 |
| Beam 17: End 2: 2: Perm port | 1112.3040 | 278236.7766 | 1565.2716 |
| Beam 17: End 2: 3: Variabile | 4449.2160 | 1112947.1063 | 6261.0866 |
| Beam 17: End 2: 4: SLE_g [Combination 1] | 2413.9714 | 461051.6625 | 3955.5094 |
| Beam 17: End 2: 5: SLE_q [Combination 2] | 4449.2160 | 1112947.1063 | 6261.0866 |
| Beam 17: End 2: 6: SLE_tot [Combination 3] | 6863.1874 | 1573998.7687 | 10216.5960 |
| Beam 17: End 2: 7: SLU [Combination 4] | 10034.4476 | 2324435.1759 | 14846.8464 |
| Beam 18: End 1: 1: Pesi propri | -92.9939 | 300253.5909 | 2390.2462 |
| Beam 18: End 1: 2: Perm port | -18.1960 | 261866.5906 | 1565.2865 |
| Beam 18: End 1: 3: Variabile | -72.7840 | 1047466.3623 | 6261.1461 |
| Beam 18: End 1: 4: SLE_g [Combination 1] | -111.1899 | 562120.1815 | 3955.5327 |
| Beam 18: End 1: 5: SLE_q [Combination 2] | -72.7840 | 1047466.3623 | 6261.1461 |
| Beam 18: End 1: 6: SLE_tot [Combination 3] | -183.9740 | 1609586.5438 | 10216.6788 |
| Beam 18: End 1: 7: SLU [Combination 4] | -257.3622 | 2354329.0976 | 14846.9689 |
| Beam 18: End 2: 1: Pesi propri | -241.9773 | 250007.9139 | 2390.2462 |
| Beam 18: End 2: 2: Perm port | -18.1960 | 256407.7871 | 1565.2865 |
| Beam 18: End 2: 3: Variabile | -72.7840 | 1025631.1486 | 6261.1461 |
| Beam 18: End 2: 4: SLE_g [Combination 1] | -260.1733 | 506415.7010 | 3955.5327 |
| Beam 18: End 2: 5: SLE_q [Combination 2] | -72.7840 | 1025631.1486 | 6261.1461 |
| Beam 18: End 2: 6: SLE_tot [Combination 3] | -332.9573 | 1532046.8496 | 10216.6788 |
| Beam 18: End 2: 7: SLU [Combination 4] | -451.0405 | 2248068.6916 | 14846.9689 |
| Beam 19: End 1: 1: Pesi propri | -1717.3379 | -1294358.2363 | 2390.2551 |
| Beam 19: End 1: 2: Perm port | -1148.6960 | -964092.1405 | 1565.3010 |
| Beam 19: End 1: 3: Variabile | -4594.7840 | -3856368.5622 | 6261.2038 |
| Beam 19: End 1: 4: SLE_g [Combination 1] | -2866.0339 | -2258450.3768 | 3955.5560 |
| Beam 19: End 1: 5: SLE_q [Combination 2] | -4594.7840 | -3856368.5622 | 6261.2038 |

| | | | |
|--|-------------|----------------|------------|
| Beam 19: End 1: 6: SLE_tot [Combination 3] | -7460.8180 | -6114818.9390 | 10216.7599 |
| Beam 19: End 1: 7: SLU [Combination 4] | -10847.7594 | -8913356.7612 | 14847.0888 |
| Beam 19: End 2: 1: Pesi propri | -1785.6219 | -1535186.7247 | 2390.2551 |
| Beam 19: End 2: 2: Perm port | -1148.6960 | -1122037.8422 | 1565.3010 |
| Beam 19: End 2: 3: Variabile | -4594.7840 | -4488151.3686 | 6261.2038 |
| Beam 19: End 2: 4: SLE_g [Combination 1] | -2934.3179 | -2657224.5669 | 3955.5560 |
| Beam 19: End 2: 5: SLE_q [Combination 2] | -4594.7840 | -4488151.3686 | 6261.2038 |
| Beam 19: End 2: 6: SLE_tot [Combination 3] | -7529.1020 | -7145375.9355 | 10216.7599 |
| Beam 19: End 2: 7: SLU [Combination 4] | -10936.5286 | -10411026.5583 | 14847.0888 |
| Beam 20: End 1: 1: Pesi propri | 1740.4054 | 481526.1885 | 2264.4725 |
| Beam 20: End 1: 2: Perm port | 1442.1804 | 338170.0066 | 1483.2869 |
| Beam 20: End 1: 3: Variabile | 5768.7215 | 1352680.0264 | 5933.1477 |
| Beam 20: End 1: 4: SLE_g [Combination 1] | 3182.5858 | 819696.1951 | 3747.7595 |
| Beam 20: End 1: 5: SLE_q [Combination 2] | 5768.7215 | 1352680.0264 | 5933.1477 |
| Beam 20: End 1: 6: SLE_tot [Combination 3] | 8951.3073 | 2172376.2215 | 9680.9071 |
| Beam 20: End 1: 7: SLU [Combination 4] | 13078.8798 | 3162259.0946 | 14068.4662 |
| Beam 20: End 2: 1: Pesi propri | 1647.2909 | 799122.7156 | 2264.4725 |
| Beam 20: End 2: 2: Perm port | 1442.1804 | 608578.8252 | 1483.2869 |
| Beam 20: End 2: 3: Variabile | 5768.7215 | 2434315.3006 | 5933.1477 |
| Beam 20: End 2: 4: SLE_g [Combination 1] | 3089.4712 | 1407701.5408 | 3747.7595 |
| Beam 20: End 2: 5: SLE_q [Combination 2] | 5768.7215 | 2434315.3006 | 5933.1477 |
| Beam 20: End 2: 6: SLE_tot [Combination 3] | 8858.1927 | 3842016.8414 | 9680.9071 |
| Beam 20: End 2: 7: SLU [Combination 4] | 12957.8309 | 5603200.7189 | 14068.4662 |
| Beam 21: End 1: 1: Pesi propri | 221.5913 | 1242445.3339 | 2264.4641 |
| Beam 21: End 1: 2: Perm port | 311.6804 | 908582.0480 | 1483.2790 |
| Beam 21: End 1: 3: Variabile | 1246.7215 | 3634328.1920 | 5933.1161 |
| Beam 21: End 1: 4: SLE_g [Combination 1] | 533.2717 | 2151027.3819 | 3747.7432 |
| Beam 21: End 1: 5: SLE_q [Combination 2] | 1246.7215 | 3634328.1920 | 5933.1161 |
| Beam 21: End 1: 6: SLE_tot [Combination 3] | 1779.9931 | 5785355.5739 | 9680.8593 |
| Beam 21: End 1: 7: SLU [Combination 4] | 2625.6715 | 8429544.2941 | 14068.3961 |
| Beam 21: End 2: 1: Pesi propri | 103.6462 | 1281067.2868 | 2264.4641 |
| Beam 21: End 2: 2: Perm port | 311.6804 | 982606.1348 | 1483.2790 |
| Beam 21: End 2: 3: Variabile | 1246.7215 | 3930424.5391 | 5933.1161 |
| Beam 21: End 2: 4: SLE_g [Combination 1] | 415.3265 | 2263673.4216 | 3747.7432 |
| Beam 21: End 2: 5: SLE_q [Combination 2] | 1246.7215 | 3930424.5391 | 5933.1161 |
| Beam 21: End 2: 6: SLE_tot [Combination 3] | 1662.0480 | 6194097.9607 | 9680.8593 |
| Beam 21: End 2: 7: SLU [Combination 4] | 2472.3428 | 9034933.4837 | 14068.3961 |
| Beam 22: End 1: 1: Pesi propri | -1297.2228 | 304099.7487 | 2264.4516 |
| Beam 22: End 1: 2: Perm port | -818.8196 | 235427.4456 | 1483.2653 |
| Beam 22: End 1: 3: Variabile | -3275.2785 | 941709.7823 | 5933.0613 |
| Beam 22: End 1: 4: SLE_g [Combination 1] | -2116.0424 | 539527.1943 | 3747.7170 |
| Beam 22: End 1: 5: SLE_q [Combination 2] | -3275.2785 | 941709.7823 | 5933.0613 |
| Beam 22: End 1: 6: SLE_tot [Combination 3] | -5391.3210 | 1481236.9766 | 9680.7783 |
| Beam 22: End 1: 7: SLU [Combination 4] | -7827.5369 | 2161035.5151 | 14068.2771 |
| Beam 22: End 2: 1: Pesi propri | -1439.9985 | -89375.8122 | 2264.4516 |
| Beam 22: End 2: 2: Perm port | -818.8196 | 16.8004 | 1483.2653 |
| Beam 22: End 2: 3: Variabile | -3275.2785 | 67.2016 | 5933.0613 |
| Beam 22: End 2: 4: SLE_g [Combination 1] | -2258.8181 | -89359.0117 | 3747.7170 |
| Beam 22: End 2: 5: SLE_q [Combination 2] | -3275.2785 | 67.2016 | 5933.0613 |
| Beam 22: End 2: 6: SLE_tot [Combination 3] | -5534.0967 | -89291.8101 | 9680.7783 |
| Beam 22: End 2: 7: SLU [Combination 4] | -8013.1453 | -116062.5527 | 14068.2771 |
| Beam 23: End 1: 1: Pesi propri | 297.9667 | -89389.9997 | 818.3993 |
| Beam 23: End 1: 2: Perm port | 0.0000 | 0.0000 | 493.7465 |
| Beam 23: End 1: 3: Variabile | 0.0000 | 0.0000 | 1974.9862 |
| Beam 23: End 1: 4: SLE_g [Combination 1] | 297.9667 | -89389.9997 | 1312.1459 |
| Beam 23: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 1974.9862 |
| Beam 23: End 1: 6: SLE_tot [Combination 3] | 297.9667 | -89389.9997 | 3287.1321 |
| Beam 23: End 1: 7: SLU [Combination 4] | 387.3567 | -116206.9996 | 4767.0183 |
| Beam 23: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 818.3993 |
| Beam 23: End 2: 2: Perm port | 0.0000 | 0.0000 | 493.7465 |
| Beam 23: End 2: 3: Variabile | 0.0000 | 0.0000 | 1974.9862 |
| Beam 23: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 1312.1459 |
| Beam 23: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 1974.9862 |
| Beam 23: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 3287.1321 |
| Beam 23: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 4767.0183 |
| Beam 24: End 1: 1: Pesi propri | 297.9667 | -89389.9997 | 874.2536 |
| Beam 24: End 1: 2: Perm port | 0.0000 | 0.0000 | 529.7648 |
| Beam 24: End 1: 3: Variabile | 0.0000 | 0.0000 | 2119.0593 |
| Beam 24: End 1: 4: SLE_g [Combination 1] | 297.9667 | -89389.9997 | 1404.0184 |
| Beam 24: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 2119.0593 |
| Beam 24: End 1: 6: SLE_tot [Combination 3] | 297.9667 | -89389.9997 | 3523.0777 |
| Beam 24: End 1: 7: SLU [Combination 4] | 387.3567 | -116206.9996 | 5109.7659 |
| Beam 24: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 874.2536 |
| Beam 24: End 2: 2: Perm port | 0.0000 | 0.0000 | 529.7648 |
| Beam 24: End 2: 3: Variabile | 0.0000 | 0.0000 | 2119.0593 |
| Beam 24: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 1404.0184 |
| Beam 24: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 2119.0593 |
| Beam 24: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 3523.0777 |
| Beam 24: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 5109.7659 |

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|--|-----------|-------------|-------------|--------|
| Beam 25: End 1: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 25: End 1: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 25: End 1: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 25: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 25: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 25: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 25: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | |
| Beam 25: End 2: 1: Pesi propri | -148.9833 | -22347.4999 | 0.0000 | |
| Beam 25: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 25: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 25: End 2: 4: SLE_g [Combination 1] | -148.9833 | -22347.4999 | 0.0000 | 0.0000 |
| Beam 25: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 25: End 2: 6: SLE_tot [Combination 3] | -148.9833 | -22347.4999 | 0.0000 | 0.0000 |
| Beam 25: End 2: 7: SLU [Combination 4] | -193.6783 | -29051.7499 | 0.0000 | |
| Beam 26: End 1: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 26: End 1: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 26: End 1: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 26: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 26: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 26: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 26: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 | |
| Beam 26: End 2: 1: Pesi propri | -148.9833 | -22347.4999 | 0.0000 | |
| Beam 26: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 26: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 26: End 2: 4: SLE_g [Combination 1] | -148.9833 | -22347.4999 | 0.0000 | 0.0000 |
| Beam 26: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Beam 26: End 2: 6: SLE_tot [Combination 3] | -148.9833 | -22347.4999 | 0.0000 | 0.0000 |
| Beam 26: End 2: 7: SLU [Combination 4] | -193.6783 | -29051.7499 | 0.0000 | |
| Beam 27: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -5523.5226 | |
| Beam 27: End 1: 2: Perm port | 0.0000 | 0.0000 | -3735.6818 | |
| Beam 27: End 1: 3: Variabile | 0.0000 | 0.0000 | -14942.7272 | |
| Beam 27: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -9259.2044 | |
| Beam 27: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -14942.7272 | |
| Beam 27: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -24201.9317 | |
| Beam 27: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -35198.1930 | |
| Beam 27: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -5523.5226 | |
| Beam 27: End 2: 2: Perm port | 0.0000 | 0.0000 | -3735.6818 | |
| Beam 27: End 2: 3: Variabile | 0.0000 | 0.0000 | -14942.7272 | |
| Beam 27: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -9259.2044 | |
| Beam 27: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -14942.7272 | |
| Beam 27: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -24201.9317 | |
| Beam 27: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -35198.1930 | |
| Beam 28: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -3315.5408 | |
| Beam 28: End 1: 2: Perm port | 0.0000 | 0.0000 | -2439.4525 | |
| Beam 28: End 1: 3: Variabile | 0.0000 | 0.0000 | -9757.8102 | |
| Beam 28: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5754.9934 | |
| Beam 28: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -9757.8102 | |
| Beam 28: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -15512.8035 | |
| Beam 28: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -22606.0971 | |
| Beam 28: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -3315.5408 | |
| Beam 28: End 2: 2: Perm port | 0.0000 | 0.0000 | -2439.4525 | |
| Beam 28: End 2: 3: Variabile | 0.0000 | 0.0000 | -9757.8102 | |
| Beam 28: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5754.9934 | |
| Beam 28: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -9757.8102 | |
| Beam 28: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -15512.8035 | |
| Beam 28: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -22606.0971 | |
| Beam 29: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -3026.1784 | |
| Beam 29: End 1: 2: Perm port | 0.0000 | 0.0000 | -2244.8785 | |
| Beam 29: End 1: 3: Variabile | 0.0000 | 0.0000 | -8979.5140 | |
| Beam 29: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5271.0569 | |
| Beam 29: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -8979.5140 | |
| Beam 29: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -14250.5709 | |
| Beam 29: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -20770.6207 | |
| Beam 29: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -3026.1784 | |
| Beam 29: End 2: 2: Perm port | 0.0000 | 0.0000 | -2244.8785 | |
| Beam 29: End 2: 3: Variabile | 0.0000 | 0.0000 | -8979.5140 | |
| Beam 29: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5271.0569 | |
| Beam 29: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -8979.5140 | |
| Beam 29: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -14250.5709 | |
| Beam 29: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -20770.6207 | |
| Beam 30: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -3371.5850 | |
| Beam 30: End 1: 2: Perm port | 0.0000 | 0.0000 | -2417.3541 | |
| Beam 30: End 1: 3: Variabile | 0.0000 | 0.0000 | -9669.4165 | |
| Beam 30: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5788.9391 | |
| Beam 30: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -9669.4165 | |
| Beam 30: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -15458.3556 | |
| Beam 30: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -22513.2164 | |
| Beam 30: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -3371.5850 | |
| Beam 30: End 2: 2: Perm port | 0.0000 | 0.0000 | -2417.3541 | |

| | | | |
|--|-----------|--------------|-------------|
| Beam 30: End 2: 3: Variabile | 0.0000 | 0.0000 | -9669.4165 |
| Beam 30: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5788.9391 |
| Beam 30: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -9669.4165 |
| Beam 30: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -15458.3556 |
| Beam 30: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -22513.2164 |
| Beam 31: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -5439.9376 |
| Beam 31: End 1: 2: Perm port | 0.0000 | 0.0000 | -3562.3590 |
| Beam 31: End 1: 3: Variabile | 0.0000 | 0.0000 | -14249.4358 |
| Beam 31: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -9002.2966 |
| Beam 31: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -14249.4358 |
| Beam 31: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -23251.7324 |
| Beam 31: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -33789.6111 |
| Beam 31: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -5439.9376 |
| Beam 31: End 2: 2: Perm port | 0.0000 | 0.0000 | -3562.3590 |
| Beam 31: End 2: 3: Variabile | 0.0000 | 0.0000 | -14249.4358 |
| Beam 31: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -9002.2966 |
| Beam 31: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -14249.4358 |
| Beam 31: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -23251.7324 |
| Beam 31: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -33789.6111 |
| Beam 32: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -3087.3106 |
| Beam 32: End 1: 2: Perm port | 0.0000 | 0.0000 | -2164.6978 |
| Beam 32: End 1: 3: Variabile | 0.0000 | 0.0000 | -8658.7910 |
| Beam 32: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5252.0084 |
| Beam 32: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -8658.7910 |
| Beam 32: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -13910.7994 |
| Beam 32: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -20248.7370 |
| Beam 32: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -3087.3106 |
| Beam 32: End 2: 2: Perm port | 0.0000 | 0.0000 | -2164.6978 |
| Beam 32: End 2: 3: Variabile | 0.0000 | 0.0000 | -8658.7910 |
| Beam 32: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5252.0084 |
| Beam 32: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -8658.7910 |
| Beam 32: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -13910.7994 |
| Beam 32: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -20248.7370 |
| Beam 33: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -2801.0392 |
| Beam 33: End 1: 2: Perm port | 0.0000 | 0.0000 | -1978.0322 |
| Beam 33: End 1: 3: Variabile | 0.0000 | 0.0000 | -7912.1289 |
| Beam 33: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -4779.0714 |
| Beam 33: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -7912.1289 |
| Beam 33: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -12691.2003 |
| Beam 33: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -18476.5926 |
| Beam 33: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -2801.0392 |
| Beam 33: End 2: 2: Perm port | 0.0000 | 0.0000 | -1978.0322 |
| Beam 33: End 2: 3: Variabile | 0.0000 | 0.0000 | -7912.1289 |
| Beam 33: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -4779.0714 |
| Beam 33: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -7912.1289 |
| Beam 33: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -12691.2003 |
| Beam 33: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -18476.5926 |
| Beam 34: End 1: 1: Pesi propri | 0.0000 | 0.0000 | -3163.9206 |
| Beam 34: End 1: 2: Perm port | 0.0000 | 0.0000 | -2170.0303 |
| Beam 34: End 1: 3: Variabile | 0.0000 | 0.0000 | -8680.1211 |
| Beam 34: End 1: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5333.9509 |
| Beam 34: End 1: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -8680.1211 |
| Beam 34: End 1: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -14014.0720 |
| Beam 34: End 1: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -20388.3238 |
| Beam 34: End 2: 1: Pesi propri | 0.0000 | 0.0000 | -3163.9206 |
| Beam 34: End 2: 2: Perm port | 0.0000 | 0.0000 | -2170.0303 |
| Beam 34: End 2: 3: Variabile | 0.0000 | 0.0000 | -8680.1211 |
| Beam 34: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | -5333.9509 |
| Beam 34: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | -8680.1211 |
| Beam 34: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | -14014.0720 |
| Beam 34: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | -20388.3238 |
| Beam 35: End 1: 1: Pesi propri | 950.6454 | -18484.7913 | -10.2280 |
| Beam 35: End 1: 2: Perm port | 826.8750 | -16077.7233 | -12.0039 |
| Beam 35: End 1: 3: Variabile | 3307.5000 | -64310.8930 | -48.0158 |
| Beam 35: End 1: 4: SLE_g [Combination 1] | 1777.5204 | -34562.5146 | -22.2319 |
| Beam 35: End 1: 5: SLE_q [Combination 2] | 3307.5000 | -64310.8930 | -48.0158 |
| Beam 35: End 1: 6: SLE_tot [Combination 3] | 5085.0204 | -98873.4076 | -70.2477 |
| Beam 35: End 1: 7: SLU [Combination 4] | 7437.4016 | -144613.1531 | -103.3260 |
| Beam 35: End 2: 1: Pesi propri | 787.6776 | 450862.4395 | -10.2280 |
| Beam 35: End 2: 2: Perm port | 685.1250 | 392162.2776 | -12.0039 |
| Beam 35: End 2: 3: Variabile | 2740.5000 | 1568649.1103 | -48.0158 |
| Beam 35: End 2: 4: SLE_g [Combination 1] | 1472.8026 | 843024.7171 | -22.2319 |
| Beam 35: End 2: 5: SLE_q [Combination 2] | 2740.5000 | 1568649.1103 | -48.0158 |
| Beam 35: End 2: 6: SLE_tot [Combination 3] | 4213.3027 | 2411673.8274 | -70.2477 |
| Beam 35: End 2: 7: SLU [Combination 4] | 6162.4184 | 3527338.2533 | -103.3260 |
| Beam 36: End 1: 1: Pesi propri | 787.6776 | 450862.4395 | -10.2280 |
| Beam 36: End 1: 2: Perm port | 685.1250 | 392162.2776 | -12.0039 |
| Beam 36: End 1: 3: Variabile | 2740.5000 | 1568649.1103 | -48.0158 |
| Beam 36: End 1: 4: SLE_g [Combination 1] | 1472.8026 | 843024.7171 | -22.2319 |

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| Beam 36: End 1: 5: SLE_q [Combination 2] | 2740.5000 | 1568649.1103 | -48.0158 |
| Beam 36: End 1: 6: SLE_tot [Combination 3] | 4213.3027 | 2411673.8274 | -70.2477 |
| Beam 36: End 1: 7: SLU [Combination 4] | 6162.4184 | 3527338.2533 | -103.3260 |
| Beam 36: End 2: 1: Pesi propri | 594.5306 | 893169.0893 | -10.2280 |
| Beam 36: End 2: 2: Perm port | 517.1250 | 776882.2786 | -12.0039 |
| Beam 36: End 2: 3: Variabile | 2068.5000 | 3107529.1143 | -48.0158 |
| Beam 36: End 2: 4: SLE_g [Combination 1] | 1111.6556 | 1670051.3678 | -22.2319 |
| Beam 36: End 2: 5: SLE_q [Combination 2] | 2068.5000 | 3107529.1143 | -48.0158 |
| Beam 36: End 2: 6: SLE_tot [Combination 3] | 3180.1556 | 4777580.4821 | -70.2477 |
| Beam 36: End 2: 7: SLU [Combination 4] | 4651.3273 | 6987736.9053 | -103.3260 |
| Beam 37: End 1: 1: Pesi propri | 594.5306 | 893169.0893 | -10.2280 |
| Beam 37: End 1: 2: Perm port | 517.1250 | 776882.2786 | -12.0039 |
| Beam 37: End 1: 3: Variabile | 2068.5000 | 3107529.1143 | -48.0158 |
| Beam 37: End 1: 4: SLE_g [Combination 1] | 1111.6556 | 1670051.3678 | -22.2319 |
| Beam 37: End 1: 5: SLE_q [Combination 2] | 2068.5000 | 3107529.1143 | -48.0158 |
| Beam 37: End 1: 6: SLE_tot [Combination 3] | 3180.1556 | 4777580.4821 | -70.2477 |
| Beam 37: End 1: 7: SLU [Combination 4] | 4651.3273 | 6987736.9053 | -103.3260 |
| Beam 37: End 2: 1: Pesi propri | 401.3836 | 1211861.6536 | -10.2280 |
| Beam 37: End 2: 2: Perm port | 349.1250 | 1054082.2796 | -12.0039 |
| Beam 37: End 2: 3: Variabile | 1396.5000 | 4216329.1182 | -48.0158 |
| Beam 37: End 2: 4: SLE_g [Combination 1] | 750.5086 | 2265943.9332 | -22.2319 |
| Beam 37: End 2: 5: SLE_q [Combination 2] | 1396.5000 | 4216329.1182 | -48.0158 |
| Beam 37: End 2: 6: SLE_tot [Combination 3] | 2147.0086 | 6482273.0514 | -70.2477 |
| Beam 37: End 2: 7: SLU [Combination 4] | 3140.2362 | 9481037.2464 | -103.3260 |
| Beam 38: End 1: 1: Pesi propri | 401.3836 | 1211861.6536 | -10.2280 |
| Beam 38: End 1: 2: Perm port | 349.1250 | 1054082.2796 | -12.0039 |
| Beam 38: End 1: 3: Variabile | 1396.5000 | 4216329.1182 | -48.0158 |
| Beam 38: End 1: 4: SLE_g [Combination 1] | 750.5086 | 2265943.9332 | -22.2319 |
| Beam 38: End 1: 5: SLE_q [Combination 2] | 1396.5000 | 4216329.1182 | -48.0158 |
| Beam 38: End 1: 6: SLE_tot [Combination 3] | 2147.0086 | 6482273.0514 | -70.2477 |
| Beam 38: End 1: 7: SLU [Combination 4] | 3140.2362 | 9481037.2464 | -103.3260 |
| Beam 38: End 2: 1: Pesi propri | 208.2366 | 1406940.1325 | -10.2280 |
| Beam 38: End 2: 2: Perm port | 181.1250 | 1223762.2805 | -12.0039 |
| Beam 38: End 2: 3: Variabile | 724.5000 | 4895049.1222 | -48.0158 |
| Beam 38: End 2: 4: SLE_g [Combination 1] | 389.3616 | 2630702.4131 | -22.2319 |
| Beam 38: End 2: 5: SLE_q [Combination 2] | 724.5000 | 4895049.1222 | -48.0158 |
| Beam 38: End 2: 6: SLE_tot [Combination 3] | 1113.8616 | 7525751.5353 | -70.2477 |
| Beam 38: End 2: 7: SLU [Combination 4] | 1629.1451 | 11007239.2764 | -103.3260 |
| Beam 39: End 1: 1: Pesi propri | 208.2366 | 1406940.1325 | -10.2280 |
| Beam 39: End 1: 2: Perm port | 181.1250 | 1223762.2805 | -12.0039 |
| Beam 39: End 1: 3: Variabile | 724.5000 | 4895049.1222 | -48.0158 |
| Beam 39: End 1: 4: SLE_g [Combination 1] | 389.3616 | 2630702.4131 | -22.2319 |
| Beam 39: End 1: 5: SLE_q [Combination 2] | 724.5000 | 4895049.1222 | -48.0158 |
| Beam 39: End 1: 6: SLE_tot [Combination 3] | 1113.8616 | 7525751.5353 | -70.2477 |
| Beam 39: End 1: 7: SLU [Combination 4] | 1629.1451 | 11007239.2764 | -103.3260 |
| Beam 39: End 2: 1: Pesi propri | 15.0896 | 1478404.5261 | -10.2280 |
| Beam 39: End 2: 2: Perm port | 13.1250 | 1285922.2815 | -12.0039 |
| Beam 39: End 2: 3: Variabile | 52.5000 | 5143689.1261 | -48.0158 |
| Beam 39: End 2: 4: SLE_g [Combination 1] | 28.2146 | 2764326.8076 | -22.2319 |
| Beam 39: End 2: 5: SLE_q [Combination 2] | 52.5000 | 5143689.1261 | -48.0158 |
| Beam 39: End 2: 6: SLE_tot [Combination 3] | 80.7146 | 7908015.9337 | -70.2477 |
| Beam 39: End 2: 7: SLU [Combination 4] | 118.0540 | 11566342.9954 | -103.3260 |
| Beam 40: End 1: 1: Pesi propri | 15.0896 | 1478404.5261 | -10.2280 |
| Beam 40: End 1: 2: Perm port | 13.1250 | 1285922.2815 | -12.0039 |
| Beam 40: End 1: 3: Variabile | 52.5000 | 5143689.1261 | -48.0158 |
| Beam 40: End 1: 4: SLE_g [Combination 1] | 28.2146 | 2764326.8076 | -22.2319 |
| Beam 40: End 1: 5: SLE_q [Combination 2] | 52.5000 | 5143689.1261 | -48.0158 |
| Beam 40: End 1: 6: SLE_tot [Combination 3] | 80.7146 | 7908015.9337 | -70.2477 |
| Beam 40: End 1: 7: SLU [Combination 4] | 118.0540 | 11566342.9954 | -103.3260 |
| Beam 40: End 2: 1: Pesi propri | -178.0574 | 1426254.8342 | -10.2280 |
| Beam 40: End 2: 2: Perm port | -154.8750 | 1240562.2825 | -12.0039 |
| Beam 40: End 2: 3: Variabile | -619.5000 | 4962249.1301 | -48.0158 |
| Beam 40: End 2: 4: SLE_g [Combination 1] | -332.9324 | 2666817.1167 | -22.2319 |
| Beam 40: End 2: 5: SLE_q [Combination 2] | -619.5000 | 4962249.1301 | -48.0158 |
| Beam 40: End 2: 6: SLE_tot [Combination 3] | -952.4324 | 7629066.2468 | -70.2477 |
| Beam 40: End 2: 7: SLU [Combination 4] | -1393.0371 | 11158348.4034 | -103.3260 |
| Beam 41: End 1: 1: Pesi propri | -178.0574 | 1426254.8342 | -10.2280 |
| Beam 41: End 1: 2: Perm port | -154.8750 | 1240562.2825 | -12.0039 |
| Beam 41: End 1: 3: Variabile | -619.5000 | 4962249.1301 | -48.0158 |
| Beam 41: End 1: 4: SLE_g [Combination 1] | -332.9324 | 2666817.1167 | -22.2319 |
| Beam 41: End 1: 5: SLE_q [Combination 2] | -619.5000 | 4962249.1301 | -48.0158 |
| Beam 41: End 1: 6: SLE_tot [Combination 3] | -952.4324 | 7629066.2468 | -70.2477 |
| Beam 41: End 1: 7: SLU [Combination 4] | -1393.0371 | 11158348.4034 | -103.3260 |
| Beam 41: End 2: 1: Pesi propri | -371.2044 | 1250491.0569 | -10.2280 |
| Beam 41: End 2: 2: Perm port | -322.8750 | 1087682.2835 | -12.0039 |
| Beam 41: End 2: 3: Variabile | -1291.5000 | 4350729.1341 | -48.0158 |
| Beam 41: End 2: 4: SLE_g [Combination 1] | -694.0794 | 2338173.3404 | -22.2319 |
| Beam 41: End 2: 5: SLE_q [Combination 2] | -1291.5000 | 4350729.1341 | -48.0158 |
| Beam 41: End 2: 6: SLE_tot [Combination 3] | -1985.5794 | 6688902.4745 | -70.2477 |

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| Beam 41: End 2: 7: SLU [Combination 4] | -2904.1282 | 9783255.5003 | -103.3260 |
| Beam 42: End 1: 1: Pesi propri | -371.2044 | 1250491.0569 | -10.2280 |
| Beam 42: End 1: 2: Perm port | -322.8750 | 1087682.2835 | -12.0039 |
| Beam 42: End 1: 3: Variabile | -1291.5000 | 4350729.1341 | -48.0158 |
| Beam 42: End 1: 4: SLE_g [Combination 1] | -694.0794 | 2338173.3404 | -22.2319 |
| Beam 42: End 1: 5: SLE_q [Combination 2] | -1291.5000 | 4350729.1341 | -48.0158 |
| Beam 42: End 1: 6: SLE_tot [Combination 3] | -1985.5794 | 6688902.4745 | -70.2477 |
| Beam 42: End 1: 7: SLU [Combination 4] | -2904.1282 | 9783255.5003 | -103.3260 |
| Beam 42: End 2: 1: Pesi propri | -564.3514 | 951113.1942 | -10.2280 |
| Beam 42: End 2: 2: Perm port | -490.8750 | 827282.2845 | -12.0039 |
| Beam 42: End 2: 3: Variabile | -1963.5000 | 3309129.1380 | -48.0158 |
| Beam 42: End 2: 4: SLE_g [Combination 1] | -1055.2264 | 1778395.4787 | -22.2319 |
| Beam 42: End 2: 5: SLE_q [Combination 2] | -1963.5000 | 3309129.1380 | -48.0158 |
| Beam 42: End 2: 6: SLE_tot [Combination 3] | -3018.7264 | 5087524.6167 | -70.2477 |
| Beam 42: End 2: 7: SLU [Combination 4] | -4415.2193 | 7441064.2862 | -103.3260 |
| Beam 43: End 1: 1: Pesi propri | -564.3514 | 951113.1942 | -10.2280 |
| Beam 43: End 1: 2: Perm port | -490.8750 | 827282.2845 | -12.0039 |
| Beam 43: End 1: 3: Variabile | -1963.5000 | 3309129.1380 | -48.0158 |
| Beam 43: End 1: 4: SLE_g [Combination 1] | -1055.2264 | 1778395.4787 | -22.2319 |
| Beam 43: End 1: 5: SLE_q [Combination 2] | -1963.5000 | 3309129.1380 | -48.0158 |
| Beam 43: End 1: 6: SLE_tot [Combination 3] | -3018.7264 | 5087524.6167 | -70.2477 |
| Beam 43: End 1: 7: SLU [Combination 4] | -4415.2193 | 7441064.2862 | -103.3260 |
| Beam 43: End 2: 1: Pesi propri | -757.4984 | 528121.2461 | -10.2280 |
| Beam 43: End 2: 2: Perm port | -658.8750 | 459362.2855 | -12.0039 |
| Beam 43: End 2: 3: Variabile | -2635.5000 | 1837449.1420 | -48.0158 |
| Beam 43: End 2: 4: SLE_g [Combination 1] | -1416.3734 | 987483.5316 | -22.2319 |
| Beam 43: End 2: 5: SLE_q [Combination 2] | -2635.5000 | 1837449.1420 | -48.0158 |
| Beam 43: End 2: 6: SLE_tot [Combination 3] | -4051.8734 | 2824932.6736 | -70.2477 |
| Beam 43: End 2: 7: SLU [Combination 4] | -5926.3104 | 4131774.7611 | -103.3260 |
| Beam 44: End 1: 1: Pesi propri | 950.6448 | -30394.2773 | -2.5571 |
| Beam 44: End 1: 2: Perm port | 1112.1165 | -35544.1858 | -3.0016 |
| Beam 44: End 1: 3: Variabile | 4448.4659 | -142176.7433 | -12.0064 |
| Beam 44: End 1: 4: SLE_g [Combination 1] | 2062.7612 | -65938.4631 | -5.5586 |
| Beam 44: End 1: 5: SLE_q [Combination 2] | 4448.4659 | -142176.7433 | -12.0064 |
| Beam 44: End 1: 6: SLE_tot [Combination 3] | 6511.2271 | -208115.2065 | -17.5650 |
| Beam 44: End 1: 7: SLU [Combination 4] | 9576.7117 | -306093.9542 | -25.8361 |
| Beam 44: End 2: 1: Pesi propri | 787.6770 | 438952.5942 | -2.5571 |
| Beam 44: End 2: 2: Perm port | 921.7665 | 513604.2076 | -3.0016 |
| Beam 44: End 2: 3: Variabile | 3687.0659 | 2054416.8304 | -12.0064 |
| Beam 44: End 2: 4: SLE_g [Combination 1] | 1709.4434 | 952556.8018 | -5.5586 |
| Beam 44: End 2: 5: SLE_q [Combination 2] | 3687.0659 | 2054416.8304 | -12.0064 |
| Beam 44: End 2: 6: SLE_tot [Combination 3] | 5396.5093 | 3006973.6323 | -17.5650 |
| Beam 44: End 2: 7: SLU [Combination 4] | 7937.2286 | 4422669.9296 | -25.8361 |
| Beam 45: End 1: 1: Pesi propri | 787.6770 | 438952.5942 | -2.5571 |
| Beam 45: End 1: 2: Perm port | 921.7665 | 513604.2076 | -3.0016 |
| Beam 45: End 1: 3: Variabile | 3687.0659 | 2054416.8304 | -12.0064 |
| Beam 45: End 1: 4: SLE_g [Combination 1] | 1709.4434 | 952556.8018 | -5.5586 |
| Beam 45: End 1: 5: SLE_q [Combination 2] | 3687.0659 | 2054416.8304 | -12.0064 |
| Beam 45: End 1: 6: SLE_tot [Combination 3] | 5396.5093 | 3006973.6323 | -17.5650 |
| Beam 45: End 1: 7: SLU [Combination 4] | 7937.2286 | 4422669.9296 | -25.8361 |
| Beam 45: End 2: 1: Pesi propri | 594.5300 | 881258.8181 | -2.5571 |
| Beam 45: End 2: 2: Perm port | 696.1665 | 1031342.7480 | -3.0016 |
| Beam 45: End 2: 3: Variabile | 2784.6659 | 4125370.9919 | -12.0064 |
| Beam 45: End 2: 4: SLE_g [Combination 1] | 1290.6964 | 1912601.5661 | -5.5586 |
| Beam 45: End 2: 5: SLE_q [Combination 2] | 2784.6659 | 4125370.9919 | -12.0064 |
| Beam 45: End 2: 6: SLE_tot [Combination 3] | 4075.3623 | 6037972.5580 | -17.5650 |
| Beam 45: End 2: 7: SLU [Combination 4] | 5994.1375 | 8880707.0734 | -25.8361 |
| Beam 46: End 1: 1: Pesi propri | 594.5300 | 881258.8181 | -2.5571 |
| Beam 46: End 1: 2: Perm port | 696.1665 | 1031342.7480 | -3.0016 |
| Beam 46: End 1: 3: Variabile | 2784.6659 | 4125370.9919 | -12.0064 |
| Beam 46: End 1: 4: SLE_g [Combination 1] | 1290.6964 | 1912601.5661 | -5.5586 |
| Beam 46: End 1: 5: SLE_q [Combination 2] | 2784.6659 | 4125370.9919 | -12.0064 |
| Beam 46: End 1: 6: SLE_tot [Combination 3] | 4075.3623 | 6037972.5580 | -17.5650 |
| Beam 46: End 1: 7: SLU [Combination 4] | 5994.1375 | 8880707.0734 | -25.8361 |
| Beam 46: End 2: 1: Pesi propri | 401.3830 | 1199950.9566 | -2.5571 |
| Beam 46: End 2: 2: Perm port | 470.5665 | 1404697.2883 | -3.0016 |
| Beam 46: End 2: 3: Variabile | 1882.2659 | 5618789.1534 | -12.0064 |
| Beam 46: End 2: 4: SLE_g [Combination 1] | 871.9494 | 2604648.2449 | -5.5586 |
| Beam 46: End 2: 5: SLE_q [Combination 2] | 1882.2659 | 5618789.1534 | -12.0064 |
| Beam 46: End 2: 6: SLE_tot [Combination 3] | 2754.2153 | 8223437.3983 | -17.5650 |
| Beam 46: End 2: 7: SLU [Combination 4] | 4051.0464 | 12095165.9062 | -25.8361 |
| Beam 47: End 1: 1: Pesi propri | 401.3830 | 1199950.9566 | -2.5571 |
| Beam 47: End 1: 2: Perm port | 470.5665 | 1404697.2883 | -3.0016 |
| Beam 47: End 1: 3: Variabile | 1882.2659 | 5618789.1534 | -12.0064 |
| Beam 47: End 1: 4: SLE_g [Combination 1] | 871.9494 | 2604648.2449 | -5.5586 |
| Beam 47: End 1: 5: SLE_q [Combination 2] | 1882.2659 | 5618789.1534 | -12.0064 |
| Beam 47: End 1: 6: SLE_tot [Combination 3] | 2754.2153 | 8223437.3983 | -17.5650 |
| Beam 47: End 1: 7: SLU [Combination 4] | 4051.0464 | 12095165.9062 | -25.8361 |
| Beam 47: End 2: 1: Pesi propri | 208.2360 | 1395029.0096 | -2.5571 |

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| Beam 47: End 2: 2: Perm port | 244.9665 | 1633667.8287 | -3.0016 | |
| Beam 47: End 2: 3: Variabile | 979.8659 | 6534671.3149 | -12.0064 | |
| Beam 47: End 2: 4: SLE_g [Combination 1] | | 453.2024 | 3028696.8384 | -5.5586 |
| Beam 47: End 2: 5: SLE_q [Combination 2] | | 979.8659 | 6534671.3149 | -12.0064 |
| Beam 47: End 2: 6: SLE_tot [Combination 3] | | 1433.0683 | 9563368.1532 | -17.5650 |
| Beam 47: End 2: 7: SLU [Combination 4] | | 2107.9553 | 14066046.4279 | -25.8361 |
| Beam 48: End 1: 1: Pesi propri | 208.2360 | 1395029.0096 | -2.5571 | |
| Beam 48: End 1: 2: Perm port | 244.9665 | 1633667.8287 | -3.0016 | |
| Beam 48: End 1: 3: Variabile | 979.8659 | 6534671.3149 | -12.0064 | |
| Beam 48: End 1: 4: SLE_g [Combination 1] | | 453.2024 | 3028696.8384 | -5.5586 |
| Beam 48: End 1: 5: SLE_q [Combination 2] | | 979.8659 | 6534671.3149 | -12.0064 |
| Beam 48: End 1: 6: SLE_tot [Combination 3] | | 1433.0683 | 9563368.1532 | -17.5650 |
| Beam 48: End 1: 7: SLU [Combination 4] | | 2107.9553 | 14066046.4279 | -25.8361 |
| Beam 48: End 2: 1: Pesi propri | 15.0889 | 1466492.9773 | -2.5571 | |
| Beam 48: End 2: 2: Perm port | 19.3665 | 1718254.3691 | -3.0016 | |
| Beam 48: End 2: 3: Variabile | 77.4659 | 6873017.4764 | -12.0064 | |
| Beam 48: End 2: 4: SLE_g [Combination 1] | | 34.4554 | 3184747.3464 | -5.5586 |
| Beam 48: End 2: 5: SLE_q [Combination 2] | | 77.4659 | 6873017.4764 | -12.0064 |
| Beam 48: End 2: 6: SLE_tot [Combination 3] | | 111.9213 | 10057764.8227 | -17.5650 |
| Beam 48: End 2: 7: SLU [Combination 4] | | 164.8641 | 14793348.6387 | -25.8361 |
| Beam 49: End 1: 1: Pesi propri | 15.0889 | 1466492.9773 | -2.5571 | |
| Beam 49: End 1: 2: Perm port | 19.3665 | 1718254.3691 | -3.0016 | |
| Beam 49: End 1: 3: Variabile | 77.4659 | 6873017.4764 | -12.0064 | |
| Beam 49: End 1: 4: SLE_g [Combination 1] | | 34.4554 | 3184747.3464 | -5.5586 |
| Beam 49: End 1: 5: SLE_q [Combination 2] | | 77.4659 | 6873017.4764 | -12.0064 |
| Beam 49: End 1: 6: SLE_tot [Combination 3] | | 111.9213 | 10057764.8227 | -17.5650 |
| Beam 49: End 1: 7: SLU [Combination 4] | | 164.8641 | 14793348.6387 | -25.8361 |
| Beam 49: End 2: 1: Pesi propri | -178.0581 | 1414342.8596 | -2.5571 | |
| Beam 49: End 2: 2: Perm port | -206.2335 | 1658456.9095 | -3.0016 | |
| Beam 49: End 2: 3: Variabile | -824.9341 | 6633827.6378 | -12.0064 | |
| Beam 49: End 2: 4: SLE_g [Combination 1] | | -384.2916 | 3072799.7690 | -5.5586 |
| Beam 49: End 2: 5: SLE_q [Combination 2] | | -824.9341 | 6633827.6378 | -12.0064 |
| Beam 49: End 2: 6: SLE_tot [Combination 3] | | -1209.2257 | 9706627.4068 | -17.5650 |
| Beam 49: End 2: 7: SLU [Combination 4] | | -1778.2270 | 14277072.5384 | -25.8361 |
| Beam 50: End 1: 1: Pesi propri | -178.0581 | 1414342.8596 | -2.5571 | |
| Beam 50: End 1: 2: Perm port | -206.2335 | 1658456.9095 | -3.0016 | |
| Beam 50: End 1: 3: Variabile | -824.9341 | 6633827.6378 | -12.0064 | |
| Beam 50: End 1: 4: SLE_g [Combination 1] | | -384.2916 | 3072799.7690 | -5.5586 |
| Beam 50: End 1: 5: SLE_q [Combination 2] | | -824.9341 | 6633827.6378 | -12.0064 |
| Beam 50: End 1: 6: SLE_tot [Combination 3] | | -1209.2257 | 9706627.4068 | -17.5650 |
| Beam 50: End 1: 7: SLU [Combination 4] | | -1778.2270 | 14277072.5384 | -25.8361 |
| Beam 50: End 2: 1: Pesi propri | -371.2051 | 1238578.6564 | -2.5571 | |
| Beam 50: End 2: 2: Perm port | -431.8335 | 1454275.4498 | -3.0016 | |
| Beam 50: End 2: 3: Variabile | -1727.3341 | 5817101.7993 | -12.0064 | |
| Beam 50: End 2: 4: SLE_g [Combination 1] | | -803.0386 | 2692854.1062 | -5.5586 |
| Beam 50: End 2: 5: SLE_q [Combination 2] | | -1727.3341 | 5817101.7993 | -12.0064 |
| Beam 50: End 2: 6: SLE_tot [Combination 3] | | -2530.3727 | 8509955.9055 | -17.5650 |
| Beam 50: End 2: 7: SLU [Combination 4] | | -3721.3181 | 12517218.1270 | -25.8361 |
| Beam 51: End 1: 1: Pesi propri | -371.2051 | 1238578.6564 | -2.5571 | |
| Beam 51: End 1: 2: Perm port | -431.8335 | 1454275.4498 | -3.0016 | |
| Beam 51: End 1: 3: Variabile | -1727.3341 | 5817101.7993 | -12.0064 | |
| Beam 51: End 1: 4: SLE_g [Combination 1] | | -803.0386 | 2692854.1062 | -5.5586 |
| Beam 51: End 1: 5: SLE_q [Combination 2] | | -1727.3341 | 5817101.7993 | -12.0064 |
| Beam 51: End 1: 6: SLE_tot [Combination 3] | | -2530.3727 | 8509955.9055 | -17.5650 |
| Beam 51: End 1: 7: SLU [Combination 4] | | -3721.3181 | 12517218.1270 | -25.8361 |
| Beam 51: End 2: 1: Pesi propri | -564.3521 | 939200.3678 | -2.5571 | |
| Beam 51: End 2: 2: Perm port | -657.4335 | 1105709.9902 | -3.0016 | |
| Beam 51: End 2: 3: Variabile | -2629.7341 | 4422839.9608 | -12.0064 | |
| Beam 51: End 2: 4: SLE_g [Combination 1] | | -1221.7856 | 2044910.3580 | -5.5586 |
| Beam 51: End 2: 5: SLE_q [Combination 2] | | -2629.7341 | 4422839.9608 | -12.0064 |
| Beam 51: End 2: 6: SLE_tot [Combination 3] | | -3851.5197 | 6467750.3188 | -17.5650 |
| Beam 51: End 2: 7: SLU [Combination 4] | | -5664.4092 | 9513785.4047 | -25.8361 |
| Beam 52: End 1: 1: Pesi propri | -564.3521 | 939200.3678 | -2.5571 | |
| Beam 52: End 1: 2: Perm port | -657.4335 | 1105709.9902 | -3.0016 | |
| Beam 52: End 1: 3: Variabile | -2629.7341 | 4422839.9608 | -12.0064 | |
| Beam 52: End 1: 4: SLE_g [Combination 1] | | -1221.7856 | 2044910.3580 | -5.5586 |
| Beam 52: End 1: 5: SLE_q [Combination 2] | | -2629.7341 | 4422839.9608 | -12.0064 |
| Beam 52: End 1: 6: SLE_tot [Combination 3] | | -3851.5197 | 6467750.3188 | -17.5650 |
| Beam 52: End 1: 7: SLU [Combination 4] | | -5664.4092 | 9513785.4047 | -25.8361 |
| Beam 52: End 2: 1: Pesi propri | -757.4991 | 516207.9939 | -2.5571 | |
| Beam 52: End 2: 2: Perm port | -883.0335 | 612760.5306 | -3.0016 | |
| Beam 52: End 2: 3: Variabile | -3532.1341 | 2451042.1223 | -12.0064 | |
| Beam 52: End 2: 4: SLE_g [Combination 1] | | -1640.5326 | 1128968.5245 | -5.5586 |
| Beam 52: End 2: 5: SLE_q [Combination 2] | | -3532.1341 | 2451042.1223 | -12.0064 |
| Beam 52: End 2: 6: SLE_tot [Combination 3] | | -5172.6667 | 3580010.6467 | -17.5650 |
| Beam 52: End 2: 7: SLU [Combination 4] | | -7607.5003 | 5266774.3713 | -25.8361 |
| Beam 53: End 1: 1: Pesi propri | 953.5795 | -18484.7953 | 15.6976 | |
| Beam 53: End 1: 2: Perm port | 1137.5000 | -22050.0555 | 18.4148 | |
| Beam 53: End 1: 3: Variabile | 4550.0000 | -88200.2221 | 73.6590 | |

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| Beam 53: End 1: 4: SLE_g [Combination 1] | 2091.0795 | -40534.8508 | 34.1124 |
| Beam 53: End 1: 5: SLE_q [Combination 2] | 4550.0000 | -88200.2221 | 73.6590 |
| Beam 53: End 1: 6: SLE_tot [Combination 3] | 6641.0795 | -128735.0729 | 107.7714 |
| Beam 53: End 1: 7: SLU [Combination 4] | 9770.9034 | -189405.6503 | 158.5175 |
| Beam 53: End 2: 1: Pesi propri | 790.6117 | 452446.8432 | 15.6976 |
| Beam 53: End 2: 2: Perm port | 943.1000 | 539711.9437 | 18.4148 |
| Beam 53: End 2: 3: Variabile | 3772.4000 | 2158847.7747 | 73.6590 |
| Beam 53: End 2: 4: SLE_g [Combination 1] | 1733.7117 | 992158.7869 | 34.1124 |
| Beam 53: End 2: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.7747 | 73.6590 |
| Beam 53: End 2: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.5616 | 107.7714 |
| Beam 53: End 2: 7: SLU [Combination 4] | 8101.0452 | 4636020.4738 | 158.5175 |
| Beam 54: End 1: 1: Pesi propri | 790.6117 | 452446.8432 | 15.6976 |
| Beam 54: End 1: 2: Perm port | 943.1000 | 539711.9437 | 18.4148 |
| Beam 54: End 1: 3: Variabile | 3772.4000 | 2158847.7747 | 73.6590 |
| Beam 54: End 1: 4: SLE_g [Combination 1] | 1733.7117 | 992158.7869 | 34.1124 |
| Beam 54: End 1: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.7747 | 73.6590 |
| Beam 54: End 1: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.5616 | 107.7714 |
| Beam 54: End 1: 7: SLU [Combination 4] | 8101.0452 | 4636020.4738 | 158.5175 |
| Beam 54: End 2: 1: Pesi propri | 597.4647 | 896631.3095 | 15.6976 |
| Beam 54: End 2: 2: Perm port | 712.7000 | 1069567.9427 | 18.4148 |
| Beam 54: End 2: 3: Variabile | 2850.8000 | 4278271.7709 | 73.6590 |
| Beam 54: End 2: 4: SLE_g [Combination 1] | 1310.1647 | 1966199.2522 | 34.1124 |
| Beam 54: End 2: 5: SLE_q [Combination 2] | 2850.8000 | 4278271.7709 | 73.6590 |
| Beam 54: End 2: 6: SLE_tot [Combination 3] | 4160.9647 | 6244471.0231 | 107.7714 |
| Beam 54: End 2: 7: SLU [Combination 4] | 6121.9541 | 9187380.2727 | 158.5175 |
| Beam 55: End 1: 1: Pesi propri | 597.4647 | 896631.3095 | 15.6976 |
| Beam 55: End 1: 2: Perm port | 712.7000 | 1069567.9427 | 18.4148 |
| Beam 55: End 1: 3: Variabile | 2850.8000 | 4278271.7709 | 73.6590 |
| Beam 55: End 1: 4: SLE_g [Combination 1] | 1310.1647 | 1966199.2522 | 34.1124 |
| Beam 55: End 1: 5: SLE_q [Combination 2] | 2850.8000 | 4278271.7709 | 73.6590 |
| Beam 55: End 1: 6: SLE_tot [Combination 3] | 4160.9647 | 6244471.0231 | 107.7714 |
| Beam 55: End 1: 7: SLU [Combination 4] | 6121.9541 | 9187380.2727 | 158.5175 |
| Beam 55: End 2: 1: Pesi propri | 404.3177 | 1217201.6903 | 15.6976 |
| Beam 55: End 2: 2: Perm port | 482.3000 | 1451967.9418 | 18.4148 |
| Beam 55: End 2: 3: Variabile | 1929.2000 | 5807871.7671 | 73.6590 |
| Beam 55: End 2: 4: SLE_g [Combination 1] | 886.6177 | 2669169.6321 | 34.1124 |
| Beam 55: End 2: 5: SLE_q [Combination 2] | 1929.2000 | 5807871.7671 | 73.6590 |
| Beam 55: End 2: 6: SLE_tot [Combination 3] | 2815.8177 | 8477041.3992 | 107.7714 |
| Beam 55: End 2: 7: SLU [Combination 4] | 4142.8630 | 12472121.7607 | 158.5175 |
| Beam 56: End 1: 1: Pesi propri | 404.3177 | 1217201.6903 | 15.6976 |
| Beam 56: End 1: 2: Perm port | 482.3000 | 1451967.9418 | 18.4148 |
| Beam 56: End 1: 3: Variabile | 1929.2000 | 5807871.7671 | 73.6590 |
| Beam 56: End 1: 4: SLE_g [Combination 1] | 886.6177 | 2669169.6321 | 34.1124 |
| Beam 56: End 1: 5: SLE_q [Combination 2] | 1929.2000 | 5807871.7671 | 73.6590 |
| Beam 56: End 1: 6: SLE_tot [Combination 3] | 2815.8177 | 8477041.3992 | 107.7714 |
| Beam 56: End 1: 7: SLU [Combination 4] | 4142.8630 | 12472121.7607 | 158.5175 |
| Beam 56: End 2: 1: Pesi propri | 211.1707 | 1414157.9858 | 15.6976 |
| Beam 56: End 2: 2: Perm port | 251.9000 | 1686911.9408 | 18.4148 |
| Beam 56: End 2: 3: Variabile | 1007.6000 | 6747647.7632 | 73.6590 |
| Beam 56: End 2: 4: SLE_g [Combination 1] | 463.0707 | 3101069.9266 | 34.1124 |
| Beam 56: End 2: 5: SLE_q [Combination 2] | 1007.6000 | 6747647.7632 | 73.6590 |
| Beam 56: End 2: 6: SLE_tot [Combination 3] | 1470.6707 | 9848717.6898 | 107.7714 |
| Beam 56: End 2: 7: SLU [Combination 4] | 2163.7719 | 14490244.9376 | 158.5175 |
| Beam 57: End 1: 1: Pesi propri | 211.1707 | 1414157.9858 | 15.6976 |
| Beam 57: End 1: 2: Perm port | 251.9000 | 1686911.9408 | 18.4148 |
| Beam 57: End 1: 3: Variabile | 1007.6000 | 6747647.7632 | 73.6590 |
| Beam 57: End 1: 4: SLE_g [Combination 1] | 463.0707 | 3101069.9266 | 34.1124 |
| Beam 57: End 1: 5: SLE_q [Combination 2] | 1007.6000 | 6747647.7632 | 73.6590 |
| Beam 57: End 1: 6: SLE_tot [Combination 3] | 1470.6707 | 9848717.6898 | 107.7714 |
| Beam 57: End 1: 7: SLU [Combination 4] | 2163.7719 | 14490244.9376 | 158.5175 |
| Beam 57: End 2: 1: Pesi propri | 18.0237 | 1487500.1958 | 15.6976 |
| Beam 57: End 2: 2: Perm port | 21.5000 | 1774399.9399 | 18.4148 |
| Beam 57: End 2: 3: Variabile | 86.0000 | 7097599.7594 | 73.6590 |
| Beam 57: End 2: 4: SLE_g [Combination 1] | 39.5237 | 3261900.1357 | 34.1124 |
| Beam 57: End 2: 5: SLE_q [Combination 2] | 86.0000 | 7097599.7594 | 73.6590 |
| Beam 57: End 2: 6: SLE_tot [Combination 3] | 125.5237 | 10359499.8951 | 107.7714 |
| Beam 57: End 2: 7: SLU [Combination 4] | 184.6808 | 15241749.8035 | 158.5175 |
| Beam 58: End 1: 1: Pesi propri | 18.0237 | 1487500.1958 | 15.6976 |
| Beam 58: End 1: 2: Perm port | 21.5000 | 1774399.9399 | 18.4148 |
| Beam 58: End 1: 3: Variabile | 86.0000 | 7097599.7594 | 73.6590 |
| Beam 58: End 1: 4: SLE_g [Combination 1] | 39.5237 | 3261900.1357 | 34.1124 |
| Beam 58: End 1: 5: SLE_q [Combination 2] | 86.0000 | 7097599.7594 | 73.6590 |
| Beam 58: End 1: 6: SLE_tot [Combination 3] | 125.5237 | 10359499.8951 | 107.7714 |
| Beam 58: End 1: 7: SLU [Combination 4] | 184.6808 | 15241749.8035 | 158.5175 |
| Beam 58: End 2: 1: Pesi propri | -175.1233 | 1437228.3204 | 15.6976 |
| Beam 58: End 2: 2: Perm port | -208.9000 | 1714431.9389 | 18.4148 |
| Beam 58: End 2: 3: Variabile | -835.6000 | 6857727.7556 | 73.6590 |
| Beam 58: End 2: 4: SLE_g [Combination 1] | -384.0233 | 3151660.2593 | 34.1124 |
| Beam 58: End 2: 5: SLE_q [Combination 2] | -835.6000 | 6857727.7556 | 73.6590 |

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|--|------------|---------------|----------|
| Beam 58: End 2: 6: SLE_tot [Combination 3] | -1219.6233 | 10009388.0150 | 107.7714 |
| Beam 58: End 2: 7: SLU [Combination 4] | -1794.4103 | 14726636.3583 | 158.5175 |
| Beam 59: End 1: 1: Pesi propri | -175.1233 | 1437228.3204 | 15.6976 |
| Beam 59: End 1: 2: Perm port | -208.9000 | 1714431.9389 | 18.4148 |
| Beam 59: End 1: 3: Variabile | -835.6000 | 6857727.7556 | 73.6590 |
| Beam 59: End 1: 4: SLE_g [Combination 1] | -384.0233 | 3151660.2593 | 34.1124 |
| Beam 59: End 1: 5: SLE_q [Combination 2] | -835.6000 | 6857727.7556 | 73.6590 |
| Beam 59: End 1: 6: SLE_tot [Combination 3] | -1219.6233 | 10009388.0150 | 107.7714 |
| Beam 59: End 1: 7: SLU [Combination 4] | -1794.4103 | 14726636.3583 | 158.5175 |
| Beam 59: End 2: 1: Pesi propri | -368.2703 | 1263342.3597 | 15.6976 |
| Beam 59: End 2: 2: Perm port | -439.3000 | 1507007.9380 | 18.4148 |
| Beam 59: End 2: 3: Variabile | -1757.2000 | 6028031.7518 | 73.6590 |
| Beam 59: End 2: 4: SLE_g [Combination 1] | -807.5703 | 2770350.2976 | 34.1124 |
| Beam 59: End 2: 5: SLE_q [Combination 2] | -1757.2000 | 6028031.7518 | 73.6590 |
| Beam 59: End 2: 6: SLE_tot [Combination 3] | -2564.7703 | 8798382.0494 | 107.7714 |
| Beam 59: End 2: 7: SLU [Combination 4] | -3773.5014 | 12944904.6022 | 158.5175 |
| Beam 60: End 1: 1: Pesi propri | -368.2703 | 1263342.3597 | 15.6976 |
| Beam 60: End 1: 2: Perm port | -439.3000 | 1507007.9380 | 18.4148 |
| Beam 60: End 1: 3: Variabile | -1757.2000 | 6028031.7518 | 73.6590 |
| Beam 60: End 1: 4: SLE_g [Combination 1] | -807.5703 | 2770350.2976 | 34.1124 |
| Beam 60: End 1: 5: SLE_q [Combination 2] | -1757.2000 | 6028031.7518 | 73.6590 |
| Beam 60: End 1: 6: SLE_tot [Combination 3] | -2564.7703 | 8798382.0494 | 107.7714 |
| Beam 60: End 1: 7: SLU [Combination 4] | -3773.5014 | 12944904.6022 | 158.5175 |
| Beam 60: End 2: 1: Pesi propri | -561.4173 | 965842.3135 | 15.6976 |
| Beam 60: End 2: 2: Perm port | -669.7000 | 1152127.9370 | 18.4148 |
| Beam 60: End 2: 3: Variabile | -2678.8000 | 4608511.7480 | 73.6590 |
| Beam 60: End 2: 4: SLE_g [Combination 1] | -1231.1173 | 2117970.2505 | 34.1124 |
| Beam 60: End 2: 5: SLE_q [Combination 2] | -2678.8000 | 4608511.7480 | 73.6590 |
| Beam 60: End 2: 6: SLE_tot [Combination 3] | -3909.9173 | 6726481.9985 | 107.7714 |
| Beam 60: End 2: 7: SLU [Combination 4] | -5752.5925 | 9896554.5350 | 158.5175 |
| Beam 61: End 1: 1: Pesi propri | -561.4173 | 965842.3135 | 15.6976 |
| Beam 61: End 1: 2: Perm port | -669.7000 | 1152127.9370 | 18.4148 |
| Beam 61: End 1: 3: Variabile | -2678.8000 | 4608511.7480 | 73.6590 |
| Beam 61: End 1: 4: SLE_g [Combination 1] | -1231.1173 | 2117970.2505 | 34.1124 |
| Beam 61: End 1: 5: SLE_q [Combination 2] | -2678.8000 | 4608511.7480 | 73.6590 |
| Beam 61: End 1: 6: SLE_tot [Combination 3] | -3909.9173 | 6726481.9985 | 107.7714 |
| Beam 61: End 1: 7: SLU [Combination 4] | -5752.5925 | 9896554.5350 | 158.5175 |
| Beam 61: End 2: 1: Pesi propri | -754.5643 | 544728.1819 | 15.6976 |
| Beam 61: End 2: 2: Perm port | -900.1000 | 649791.9360 | 18.4148 |
| Beam 61: End 2: 3: Variabile | -3600.4000 | 2599167.7442 | 73.6590 |
| Beam 61: End 2: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1179 | 34.1124 |
| Beam 61: End 2: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.7442 | 73.6590 |
| Beam 61: End 2: 6: SLE_tot [Combination 3] | -5255.0643 | 3793687.8621 | 107.7714 |
| Beam 61: End 2: 7: SLU [Combination 4] | -7731.6836 | 5581586.1568 | 158.5175 |
| Beam 62: End 1: 1: Pesi propri | 953.5795 | -18484.8043 | -3.7936 |
| Beam 62: End 1: 2: Perm port | 1137.5000 | -22050.0383 | -4.4576 |
| Beam 62: End 1: 3: Variabile | 4550.0000 | -88200.1530 | -17.8302 |
| Beam 62: End 1: 4: SLE_g [Combination 1] | 2091.0795 | -40534.8426 | -8.2511 |
| Beam 62: End 1: 5: SLE_q [Combination 2] | 4550.0000 | -88200.1530 | -17.8302 |
| Beam 62: End 1: 6: SLE_tot [Combination 3] | 6641.0795 | -128734.9956 | -26.0814 |
| Beam 62: End 1: 7: SLU [Combination 4] | 9770.9034 | -189405.5326 | -38.3633 |
| Beam 62: End 2: 1: Pesi propri | 790.6117 | 452446.8351 | -3.7936 |
| Beam 62: End 2: 2: Perm port | 943.1000 | 539711.9616 | -4.4576 |
| Beam 62: End 2: 3: Variabile | 3772.4000 | 2158847.8464 | -17.8302 |
| Beam 62: End 2: 4: SLE_g [Combination 1] | 1733.7117 | 992158.7967 | -8.2511 |
| Beam 62: End 2: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.8464 | -17.8302 |
| Beam 62: End 2: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.6431 | -26.0814 |
| Beam 62: End 2: 7: SLU [Combination 4] | 8101.0453 | 4636020.5977 | -38.3633 |
| Beam 63: End 1: 1: Pesi propri | 790.6117 | 452446.8351 | -3.7936 |
| Beam 63: End 1: 2: Perm port | 943.1000 | 539711.9616 | -4.4576 |
| Beam 63: End 1: 3: Variabile | 3772.4000 | 2158847.8464 | -17.8302 |
| Beam 63: End 1: 4: SLE_g [Combination 1] | 1733.7117 | 992158.7967 | -8.2511 |
| Beam 63: End 1: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.8464 | -17.8302 |
| Beam 63: End 1: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.6431 | -26.0814 |
| Beam 63: End 1: 7: SLU [Combination 4] | 8101.0453 | 4636020.5977 | -38.3633 |
| Beam 63: End 2: 1: Pesi propri | 597.4647 | 896631.3025 | -3.7936 |
| Beam 63: End 2: 2: Perm port | 712.7000 | 1069567.9614 | -4.4576 |
| Beam 63: End 2: 3: Variabile | 2850.8000 | 4278271.8458 | -17.8302 |
| Beam 63: End 2: 4: SLE_g [Combination 1] | 1310.1647 | 1966199.2639 | -8.2511 |
| Beam 63: End 2: 5: SLE_q [Combination 2] | 2850.8000 | 4278271.8458 | -17.8302 |
| Beam 63: End 2: 6: SLE_tot [Combination 3] | 4160.9647 | 6244471.1097 | -26.0814 |
| Beam 63: End 2: 7: SLU [Combination 4] | 6121.9541 | 9187380.4040 | -38.3633 |
| Beam 64: End 1: 1: Pesi propri | 597.4647 | 896631.3025 | -3.7936 |
| Beam 64: End 1: 2: Perm port | 712.7000 | 1069567.9614 | -4.4576 |
| Beam 64: End 1: 3: Variabile | 2850.8000 | 4278271.8458 | -17.8302 |
| Beam 64: End 1: 4: SLE_g [Combination 1] | 1310.1647 | 1966199.2639 | -8.2511 |
| Beam 64: End 1: 5: SLE_q [Combination 2] | 2850.8000 | 4278271.8458 | -17.8302 |
| Beam 64: End 1: 6: SLE_tot [Combination 3] | 4160.9647 | 6244471.1097 | -26.0814 |
| Beam 64: End 1: 7: SLU [Combination 4] | 6121.9541 | 9187380.4040 | -38.3633 |

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|--|------------|--------------|---------------|----------|
| Beam 64: End 2: 1: Pesi propri | 404.3177 | 1217201.6844 | -3.7936 | |
| Beam 64: End 2: 2: Perm port | 482.3000 | 1451967.9613 | -4.4576 | |
| Beam 64: End 2: 3: Variabile | 1929.2000 | 5807871.8451 | -17.8302 | |
| Beam 64: End 2: 4: SLE_g [Combination 1] | | 886.6177 | 2669169.6457 | -8.2511 |
| Beam 64: End 2: 5: SLE_q [Combination 2] | | 1929.2000 | 5807871.8451 | -17.8302 |
| Beam 64: End 2: 6: SLE_tot [Combination 3] | | 2815.8177 | 8477041.4908 | -26.0814 |
| Beam 64: End 2: 7: SLU [Combination 4] | | 4142.8630 | 12472121.8993 | -38.3633 |
| Beam 65: End 1: 1: Pesi propri | 404.3177 | 1217201.6844 | -3.7936 | |
| Beam 65: End 1: 2: Perm port | 482.3000 | 1451967.9613 | -4.4576 | |
| Beam 65: End 1: 3: Variabile | 1929.2000 | 5807871.8451 | -17.8302 | |
| Beam 65: End 1: 4: SLE_g [Combination 1] | | 886.6177 | 2669169.6457 | -8.2511 |
| Beam 65: End 1: 5: SLE_q [Combination 2] | | 1929.2000 | 5807871.8451 | -17.8302 |
| Beam 65: End 1: 6: SLE_tot [Combination 3] | | 2815.8177 | 8477041.4908 | -26.0814 |
| Beam 65: End 1: 7: SLU [Combination 4] | | 4142.8630 | 12472121.8993 | -38.3633 |
| Beam 65: End 2: 1: Pesi propri | 211.1707 | 1414157.9809 | -3.7936 | |
| Beam 65: End 2: 2: Perm port | 251.9000 | 1686911.9611 | -4.4576 | |
| Beam 65: End 2: 3: Variabile | 1007.6000 | 6747647.8445 | -17.8302 | |
| Beam 65: End 2: 4: SLE_g [Combination 1] | | 463.0707 | 3101069.9420 | -8.2511 |
| Beam 65: End 2: 5: SLE_q [Combination 2] | | 1007.6000 | 6747647.8445 | -17.8302 |
| Beam 65: End 2: 6: SLE_tot [Combination 3] | | 1470.6707 | 9848717.7865 | -26.0814 |
| Beam 65: End 2: 7: SLU [Combination 4] | | 2163.7719 | 14490245.0836 | -38.3633 |
| Beam 66: End 1: 1: Pesi propri | 211.1707 | 1414157.9809 | -3.7936 | |
| Beam 66: End 1: 2: Perm port | 251.9000 | 1686911.9611 | -4.4576 | |
| Beam 66: End 1: 3: Variabile | 1007.6000 | 6747647.8445 | -17.8302 | |
| Beam 66: End 1: 4: SLE_g [Combination 1] | | 463.0707 | 3101069.9420 | -8.2511 |
| Beam 66: End 1: 5: SLE_q [Combination 2] | | 1007.6000 | 6747647.8445 | -17.8302 |
| Beam 66: End 1: 6: SLE_tot [Combination 3] | | 1470.6707 | 9848717.7865 | -26.0814 |
| Beam 66: End 1: 7: SLU [Combination 4] | | 2163.7719 | 14490245.0836 | -38.3633 |
| Beam 66: End 2: 1: Pesi propri | 18.0237 | 1487500.1920 | -3.7936 | |
| Beam 66: End 2: 2: Perm port | 21.5000 | 1774399.9610 | -4.4576 | |
| Beam 66: End 2: 3: Variabile | 86.0000 | 7097599.8438 | -17.8302 | |
| Beam 66: End 2: 4: SLE_g [Combination 1] | | 39.5237 | 3261900.1530 | -8.2511 |
| Beam 66: End 2: 5: SLE_q [Combination 2] | | 86.0000 | 7097599.8438 | -17.8302 |
| Beam 66: End 2: 6: SLE_tot [Combination 3] | | 125.5237 | 10359499.9968 | -26.0814 |
| Beam 66: End 2: 7: SLU [Combination 4] | | 184.6808 | 15241749.9569 | -38.3633 |
| Beam 67: End 1: 1: Pesi propri | 18.0237 | 1487500.1920 | -3.7936 | |
| Beam 67: End 1: 2: Perm port | 21.5000 | 1774399.9610 | -4.4576 | |
| Beam 67: End 1: 3: Variabile | 86.0000 | 7097599.8438 | -17.8302 | |
| Beam 67: End 1: 4: SLE_g [Combination 1] | | 39.5237 | 3261900.1530 | -8.2511 |
| Beam 67: End 1: 5: SLE_q [Combination 2] | | 86.0000 | 7097599.8438 | -17.8302 |
| Beam 67: End 1: 6: SLE_tot [Combination 3] | | 125.5237 | 10359499.9968 | -26.0814 |
| Beam 67: End 1: 7: SLU [Combination 4] | | 184.6808 | 15241749.9569 | -38.3633 |
| Beam 67: End 2: 1: Pesi propri | -175.1233 | 1437228.3178 | -3.7936 | |
| Beam 67: End 2: 2: Perm port | -208.9000 | 1714431.9608 | -4.4576 | |
| Beam 67: End 2: 3: Variabile | -835.6000 | 6857727.8432 | -17.8302 | |
| Beam 67: End 2: 4: SLE_g [Combination 1] | | -384.0233 | 3151660.2786 | -8.2511 |
| Beam 67: End 2: 5: SLE_q [Combination 2] | | -835.6000 | 6857727.8432 | -17.8302 |
| Beam 67: End 2: 6: SLE_tot [Combination 3] | | -1219.6233 | 10009388.1218 | -26.0814 |
| Beam 67: End 2: 7: SLU [Combination 4] | | -1794.4103 | 14726636.5191 | -38.3633 |
| Beam 68: End 1: 1: Pesi propri | -175.1233 | 1437228.3178 | -3.7936 | |
| Beam 68: End 1: 2: Perm port | -208.9000 | 1714431.9608 | -4.4576 | |
| Beam 68: End 1: 3: Variabile | -835.6000 | 6857727.8432 | -17.8302 | |
| Beam 68: End 1: 4: SLE_g [Combination 1] | | -384.0233 | 3151660.2786 | -8.2511 |
| Beam 68: End 1: 5: SLE_q [Combination 2] | | -835.6000 | 6857727.8432 | -17.8302 |
| Beam 68: End 1: 6: SLE_tot [Combination 3] | | -1219.6233 | 10009388.1218 | -26.0814 |
| Beam 68: End 1: 7: SLU [Combination 4] | | -1794.4103 | 14726636.5191 | -38.3633 |
| Beam 68: End 2: 1: Pesi propri | -368.2703 | 1263342.3581 | -3.7936 | |
| Beam 68: End 2: 2: Perm port | -439.3000 | 1507007.9606 | -4.4576 | |
| Beam 68: End 2: 3: Variabile | -1757.2000 | 6028031.8426 | -17.8302 | |
| Beam 68: End 2: 4: SLE_g [Combination 1] | | -807.5703 | 2770350.3187 | -8.2511 |
| Beam 68: End 2: 5: SLE_q [Combination 2] | | -1757.2000 | 6028031.8426 | -17.8302 |
| Beam 68: End 2: 6: SLE_tot [Combination 3] | | -2564.7703 | 8798382.1613 | -26.0814 |
| Beam 68: End 2: 7: SLU [Combination 4] | | -3773.5014 | 12944904.7703 | -38.3633 |
| Beam 69: End 1: 1: Pesi propri | -368.2703 | 1263342.3581 | -3.7936 | |
| Beam 69: End 1: 2: Perm port | -439.3000 | 1507007.9606 | -4.4576 | |
| Beam 69: End 1: 3: Variabile | -1757.2000 | 6028031.8426 | -17.8302 | |
| Beam 69: End 1: 4: SLE_g [Combination 1] | | -807.5703 | 2770350.3187 | -8.2511 |
| Beam 69: End 1: 5: SLE_q [Combination 2] | | -1757.2000 | 6028031.8426 | -17.8302 |
| Beam 69: End 1: 6: SLE_tot [Combination 3] | | -2564.7703 | 8798382.1613 | -26.0814 |
| Beam 69: End 1: 7: SLU [Combination 4] | | -3773.5014 | 12944904.7703 | -38.3633 |
| Beam 69: End 2: 1: Pesi propri | -561.4173 | 965842.3130 | -3.7936 | |
| Beam 69: End 2: 2: Perm port | -669.7000 | 1152127.9605 | -4.4576 | |
| Beam 69: End 2: 3: Variabile | -2678.8000 | 4608511.8419 | -17.8302 | |
| Beam 69: End 2: 4: SLE_g [Combination 1] | | -1231.1173 | 2117970.2735 | -8.2511 |
| Beam 69: End 2: 5: SLE_q [Combination 2] | | -2678.8000 | 4608511.8419 | -17.8302 |
| Beam 69: End 2: 6: SLE_tot [Combination 3] | | -3909.9173 | 6726482.1154 | -26.0814 |
| Beam 69: End 2: 7: SLU [Combination 4] | | -5752.5925 | 9896554.7104 | -38.3633 |
| Beam 70: End 1: 1: Pesi propri | -561.4173 | 965842.3130 | -3.7936 | |
| Beam 70: End 1: 2: Perm port | -669.7000 | 1152127.9605 | -4.4576 | |

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|--|------------|---------------|----------|--|
| Beam 70: End 1: 3: Variabile | -2678.8000 | 4608511.8419 | -17.8302 | |
| Beam 70: End 1: 4: SLE_g [Combination 1] | -1231.1173 | 2117970.2735 | -8.2511 | |
| Beam 70: End 1: 5: SLE_q [Combination 2] | -2678.8000 | 4608511.8419 | -17.8302 | |
| Beam 70: End 1: 6: SLE_tot [Combination 3] | -3909.9173 | 6726482.1154 | -26.0814 | |
| Beam 70: End 1: 7: SLU [Combination 4] | -5752.5925 | 9896554.7104 | -38.3633 | |
| Beam 70: End 2: 1: Pesi propri | -754.5643 | 544728.1825 | -3.7936 | |
| Beam 70: End 2: 2: Perm port | -900.1000 | 649791.9603 | -4.4576 | |
| Beam 70: End 2: 3: Variabile | -3600.4000 | 2599167.8413 | -17.8302 | |
| Beam 70: End 2: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1428 | -8.2511 | |
| Beam 70: End 2: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.8413 | -17.8302 | |
| Beam 70: End 2: 6: SLE_tot [Combination 3] | -5255.0643 | 3793687.9841 | -26.0814 | |
| Beam 70: End 2: 7: SLU [Combination 4] | -7731.6836 | 5581586.3396 | -38.3633 | |
| Beam 71: End 1: 1: Pesi propri | 953.5521 | -42232.6580 | 2.1520 | |
| Beam 71: End 1: 2: Perm port | 1137.4673 | -50378.2111 | 2.5554 | |
| Beam 71: End 1: 3: Variabile | 4549.8692 | -201512.8443 | 10.2216 | |
| Beam 71: End 1: 4: SLE_g [Combination 1] | 2091.0194 | -92610.8691 | 4.7074 | |
| Beam 71: End 1: 5: SLE_q [Combination 2] | 4549.8692 | -201512.8443 | 10.2216 | |
| Beam 71: End 1: 6: SLE_tot [Combination 3] | 6640.8886 | -294123.7133 | 14.9290 | |
| Beam 71: End 1: 7: SLU [Combination 4] | 9770.6225 | -432739.0384 | 21.9631 | |
| Beam 71: End 2: 1: Pesi propri | 790.5843 | 428684.1815 | 2.1520 | |
| Beam 71: End 2: 2: Perm port | 943.0673 | 511366.1310 | 2.5554 | |
| Beam 71: End 2: 3: Variabile | 3772.2692 | 2045464.5241 | 10.2216 | |
| Beam 71: End 2: 4: SLE_g [Combination 1] | 1733.6516 | 940050.3125 | 4.7074 | |
| Beam 71: End 2: 5: SLE_q [Combination 2] | 3772.2692 | 2045464.5241 | 10.2216 | |
| Beam 71: End 2: 6: SLE_tot [Combination 3] | 5505.9208 | 2985514.8366 | 14.9290 | |
| Beam 71: End 2: 7: SLU [Combination 4] | 8100.7644 | 4392535.4186 | 21.9631 | |
| Beam 72: End 1: 1: Pesi propri | 790.5843 | 428684.1815 | 2.1520 | |
| Beam 72: End 1: 2: Perm port | 943.0673 | 511366.1310 | 2.5554 | |
| Beam 72: End 1: 3: Variabile | 3772.2692 | 2045464.5241 | 10.2216 | |
| Beam 72: End 1: 4: SLE_g [Combination 1] | 1733.6516 | 940050.3125 | 4.7074 | |
| Beam 72: End 1: 5: SLE_q [Combination 2] | 3772.2692 | 2045464.5241 | 10.2216 | |
| Beam 72: End 1: 6: SLE_tot [Combination 3] | 5505.9208 | 2985514.8366 | 14.9290 | |
| Beam 72: End 1: 7: SLU [Combination 4] | 8100.7644 | 4392535.4186 | 21.9631 | |
| Beam 72: End 2: 1: Pesi propri | 597.4373 | 872851.1081 | 2.1520 | |
| Beam 72: End 2: 2: Perm port | 712.6673 | 1041201.2031 | 2.5554 | |
| Beam 72: End 2: 3: Variabile | 2850.6692 | 4164804.8125 | 10.2216 | |
| Beam 72: End 2: 4: SLE_g [Combination 1] | 1310.1046 | 1914052.3112 | 4.7074 | |
| Beam 72: End 2: 5: SLE_q [Combination 2] | 2850.6692 | 4164804.8125 | 10.2216 | |
| Beam 72: End 2: 6: SLE_tot [Combination 3] | 4160.7738 | 6078857.1237 | 14.9290 | |
| Beam 72: End 2: 7: SLU [Combination 4] | 6121.6733 | 8943715.4640 | 21.9631 | |
| Beam 73: End 1: 1: Pesi propri | 597.4373 | 872851.1081 | 2.1520 | |
| Beam 73: End 1: 2: Perm port | 712.6673 | 1041201.2031 | 2.5554 | |
| Beam 73: End 1: 3: Variabile | 2850.6692 | 4164804.8125 | 10.2216 | |
| Beam 73: End 1: 4: SLE_g [Combination 1] | 1310.1046 | 1914052.3112 | 4.7074 | |
| Beam 73: End 1: 5: SLE_q [Combination 2] | 2850.6692 | 4164804.8125 | 10.2216 | |
| Beam 73: End 1: 6: SLE_tot [Combination 3] | 4160.7738 | 6078857.1237 | 14.9290 | |
| Beam 73: End 1: 7: SLU [Combination 4] | 6121.6733 | 8943715.4640 | 21.9631 | |
| Beam 73: End 2: 1: Pesi propri | 404.2903 | 1193403.9492 | 2.1520 | |
| Beam 73: End 2: 2: Perm port | 482.2673 | 1423580.2752 | 2.5554 | |
| Beam 73: End 2: 3: Variabile | 1929.0692 | 5694321.1010 | 10.2216 | |
| Beam 73: End 2: 4: SLE_g [Combination 1] | 886.5576 | 2616984.2245 | 4.7074 | |
| Beam 73: End 2: 5: SLE_q [Combination 2] | 1929.0692 | 5694321.1010 | 10.2216 | |
| Beam 73: End 2: 6: SLE_tot [Combination 3] | 2815.6268 | 8311305.3255 | 14.9290 | |
| Beam 73: End 2: 7: SLU [Combination 4] | 4142.5822 | 12228277.1984 | 21.9631 | |
| Beam 74: End 1: 1: Pesi propri | 404.2903 | 1193403.9492 | 2.1520 | |
| Beam 74: End 1: 2: Perm port | 482.2673 | 1423580.2752 | 2.5554 | |
| Beam 74: End 1: 3: Variabile | 1929.0692 | 5694321.1010 | 10.2216 | |
| Beam 74: End 1: 4: SLE_g [Combination 1] | 886.5576 | 2616984.2245 | 4.7074 | |
| Beam 74: End 1: 5: SLE_q [Combination 2] | 1929.0692 | 5694321.1010 | 10.2216 | |
| Beam 74: End 1: 6: SLE_tot [Combination 3] | 2815.6268 | 8311305.3255 | 14.9290 | |
| Beam 74: End 1: 7: SLU [Combination 4] | 4142.5822 | 12228277.1984 | 21.9631 | |
| Beam 74: End 2: 1: Pesi propri | 211.1433 | 1390342.7050 | 2.1520 | |
| Beam 74: End 2: 2: Perm port | 251.8673 | 1658503.3474 | 2.5554 | |
| Beam 74: End 2: 3: Variabile | 1007.4692 | 6634013.3894 | 10.2216 | |
| Beam 74: End 2: 4: SLE_g [Combination 1] | 463.0106 | 3048846.0524 | 4.7074 | |
| Beam 74: End 2: 5: SLE_q [Combination 2] | 1007.4692 | 6634013.3894 | 10.2216 | |
| Beam 74: End 2: 6: SLE_tot [Combination 3] | 1470.4798 | 9682859.4418 | 14.9290 | |
| Beam 74: End 2: 7: SLU [Combination 4] | 2163.4910 | 14246220.6217 | 21.9631 | |
| Beam 75: End 1: 1: Pesi propri | 211.1433 | 1390342.7050 | 2.1520 | |
| Beam 75: End 1: 2: Perm port | 251.8673 | 1658503.3474 | 2.5554 | |
| Beam 75: End 1: 3: Variabile | 1007.4692 | 6634013.3894 | 10.2216 | |
| Beam 75: End 1: 4: SLE_g [Combination 1] | 463.0106 | 3048846.0524 | 4.7074 | |
| Beam 75: End 1: 5: SLE_q [Combination 2] | 1007.4692 | 6634013.3894 | 10.2216 | |
| Beam 75: End 1: 6: SLE_tot [Combination 3] | 1470.4798 | 9682859.4418 | 14.9290 | |
| Beam 75: End 1: 7: SLU [Combination 4] | 2163.4910 | 14246220.6217 | 21.9631 | |
| Beam 75: End 2: 1: Pesi propri | 17.9963 | 1463667.3754 | 2.1520 | |
| Beam 75: End 2: 2: Perm port | 21.4673 | 1745970.4195 | 2.5554 | |
| Beam 75: End 2: 3: Variabile | 85.8692 | 6983881.6779 | 10.2216 | |
| Beam 75: End 2: 4: SLE_g [Combination 1] | 39.4636 | 3209637.7949 | 4.7074 | |

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|--|------------|---------------|----------|
| Beam 75: End 2: 5: SLE_q [Combination 2] | 85.8692 | 6983881.6779 | 10.2216 |
| Beam 75: End 2: 6: SLE_tot [Combination 3] | 125.3328 | 10193519.4727 | 14.9290 |
| Beam 75: End 2: 7: SLU [Combination 4] | 184.3999 | 14997545.7340 | 21.9631 |
| Beam 76: End 1: 1: Pesi propri | 17.9963 | 1463667.3754 | 2.1520 |
| Beam 76: End 1: 2: Perm port | 21.4673 | 1745970.4195 | 2.5554 |
| Beam 76: End 1: 3: Variabile | 85.8692 | 6983881.6779 | 10.2216 |
| Beam 76: End 1: 4: SLE_g [Combination 1] | 39.4636 | 3209637.7949 | 4.7074 |
| Beam 76: End 1: 5: SLE_q [Combination 2] | 85.8692 | 6983881.6779 | 10.2216 |
| Beam 76: End 1: 6: SLE_tot [Combination 3] | 125.3328 | 10193519.4727 | 14.9290 |
| Beam 76: End 1: 7: SLU [Combination 4] | 184.3999 | 14997545.7340 | 21.9631 |
| Beam 76: End 2: 1: Pesi propri | -175.1507 | 1413377.9604 | 2.1520 |
| Beam 76: End 2: 2: Perm port | -208.9327 | 1685981.4916 | 2.5554 |
| Beam 76: End 2: 3: Variabile | -835.7308 | 6743925.9663 | 10.2216 |
| Beam 76: End 2: 4: SLE_g [Combination 1] | -384.0834 | 3099359.4520 | 4.7074 |
| Beam 76: End 2: 5: SLE_q [Combination 2] | -835.7308 | 6743925.9663 | 10.2216 |
| Beam 76: End 2: 6: SLE_tot [Combination 3] | -1219.8142 | 9843285.4183 | 14.9290 |
| Beam 76: End 2: 7: SLU [Combination 4] | -1794.6912 | 14482252.5353 | 21.9631 |
| Beam 77: End 1: 1: Pesi propri | -175.1507 | 1413377.9604 | 2.1520 |
| Beam 77: End 1: 2: Perm port | -208.9327 | 1685981.4916 | 2.5554 |
| Beam 77: End 1: 3: Variabile | -835.7308 | 6743925.9663 | 10.2216 |
| Beam 77: End 1: 4: SLE_g [Combination 1] | -384.0834 | 3099359.4520 | 4.7074 |
| Beam 77: End 1: 5: SLE_q [Combination 2] | -835.7308 | 6743925.9663 | 10.2216 |
| Beam 77: End 1: 6: SLE_tot [Combination 3] | -1219.8142 | 9843285.4183 | 14.9290 |
| Beam 77: End 1: 7: SLU [Combination 4] | -1794.6912 | 14482252.5353 | 21.9631 |
| Beam 77: End 2: 1: Pesi propri | -368.2977 | 1239474.4600 | 2.1520 |
| Beam 77: End 2: 2: Perm port | -439.3327 | 1478536.5637 | 2.5554 |
| Beam 77: End 2: 3: Variabile | -1757.3308 | 5914146.2547 | 10.2216 |
| Beam 77: End 2: 4: SLE_g [Combination 1] | -807.6304 | 2718011.0237 | 4.7074 |
| Beam 77: End 2: 5: SLE_q [Combination 2] | -1757.3308 | 5914146.2547 | 10.2216 |
| Beam 77: End 2: 6: SLE_tot [Combination 3] | -2564.9612 | 8632157.2784 | 14.9290 |
| Beam 77: End 2: 7: SLU [Combination 4] | -3773.7823 | 12700341.0256 | 21.9631 |
| Beam 78: End 1: 1: Pesi propri | -368.2977 | 1239474.4600 | 2.1520 |
| Beam 78: End 1: 2: Perm port | -439.3327 | 1478536.5637 | 2.5554 |
| Beam 78: End 1: 3: Variabile | -1757.3308 | 5914146.2547 | 10.2216 |
| Beam 78: End 1: 4: SLE_g [Combination 1] | -807.6304 | 2718011.0237 | 4.7074 |
| Beam 78: End 1: 5: SLE_q [Combination 2] | -1757.3308 | 5914146.2547 | 10.2216 |
| Beam 78: End 1: 6: SLE_tot [Combination 3] | -2564.9612 | 8632157.2784 | 14.9290 |
| Beam 78: End 1: 7: SLU [Combination 4] | -3773.7823 | 12700341.0256 | 21.9631 |
| Beam 78: End 2: 1: Pesi propri | -561.4447 | 941956.8741 | 2.1520 |
| Beam 78: End 2: 2: Perm port | -669.7327 | 1123635.6358 | 2.5554 |
| Beam 78: End 2: 3: Variabile | -2678.9308 | 4494542.5432 | 10.2216 |
| Beam 78: End 2: 4: SLE_g [Combination 1] | -1231.1774 | 2065592.5099 | 4.7074 |
| Beam 78: End 2: 5: SLE_q [Combination 2] | -2678.9308 | 4494542.5432 | 10.2216 |
| Beam 78: End 2: 6: SLE_tot [Combination 3] | -3910.1082 | 6560135.0531 | 14.9290 |
| Beam 78: End 2: 7: SLU [Combination 4] | -5752.8734 | 9651811.2048 | 21.9631 |
| Beam 79: End 1: 1: Pesi propri | -561.4447 | 941956.8741 | 2.1520 |
| Beam 79: End 1: 2: Perm port | -669.7327 | 1123635.6358 | 2.5554 |
| Beam 79: End 1: 3: Variabile | -2678.9308 | 4494542.5432 | 10.2216 |
| Beam 79: End 1: 4: SLE_g [Combination 1] | -1231.1774 | 2065592.5099 | 4.7074 |
| Beam 79: End 1: 5: SLE_q [Combination 2] | -2678.9308 | 4494542.5432 | 10.2216 |
| Beam 79: End 1: 6: SLE_tot [Combination 3] | -3910.1082 | 6560135.0531 | 14.9290 |
| Beam 79: End 1: 7: SLU [Combination 4] | -5752.8734 | 9651811.2048 | 21.9631 |
| Beam 79: End 2: 1: Pesi propri | -754.5917 | 520825.2029 | 2.1520 |
| Beam 79: End 2: 2: Perm port | -900.1327 | 621278.7079 | 2.5554 |
| Beam 79: End 2: 3: Variabile | -3600.5308 | 2485114.8316 | 10.2216 |
| Beam 79: End 2: 4: SLE_g [Combination 1] | -1654.7244 | 1142103.9108 | 4.7074 |
| Beam 79: End 2: 5: SLE_q [Combination 2] | -3600.5308 | 2485114.8316 | 10.2216 |
| Beam 79: End 2: 6: SLE_tot [Combination 3] | -5255.2552 | 3627218.7424 | 14.9290 |
| Beam 79: End 2: 7: SLU [Combination 4] | -7731.9645 | 5336663.0731 | 21.9631 |
| Beam 80: End 1: 1: Pesi propri | 953.5795 | -18484.8043 | -6.7080 |
| Beam 80: End 1: 2: Perm port | 1137.5000 | -22050.0383 | -7.9988 |
| Beam 80: End 1: 3: Variabile | 4550.0000 | -88200.1530 | -31.9953 |
| Beam 80: End 1: 4: SLE_g [Combination 1] | 2091.0795 | -40534.8426 | -14.7068 |
| Beam 80: End 1: 5: SLE_q [Combination 2] | 4550.0000 | -88200.1530 | -31.9953 |
| Beam 80: End 1: 6: SLE_tot [Combination 3] | 6641.0795 | -128734.9956 | -46.7021 |
| Beam 80: End 1: 7: SLU [Combination 4] | 9770.9034 | -189405.5326 | -68.7115 |
| Beam 80: End 2: 1: Pesi propri | 790.6117 | 452446.8351 | -6.7080 |
| Beam 80: End 2: 2: Perm port | 943.1000 | 539711.9616 | -7.9988 |
| Beam 80: End 2: 3: Variabile | 3772.4000 | 2158847.8464 | -31.9953 |
| Beam 80: End 2: 4: SLE_g [Combination 1] | 1733.7117 | 992158.7967 | -14.7068 |
| Beam 80: End 2: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.8464 | -31.9953 |
| Beam 80: End 2: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.6431 | -46.7021 |
| Beam 80: End 2: 7: SLU [Combination 4] | 8101.0453 | 4636020.5977 | -68.7115 |
| Beam 81: End 1: 1: Pesi propri | 790.6117 | 452446.8351 | -6.7080 |
| Beam 81: End 1: 2: Perm port | 943.1000 | 539711.9616 | -7.9988 |
| Beam 81: End 1: 3: Variabile | 3772.4000 | 2158847.8464 | -31.9953 |
| Beam 81: End 1: 4: SLE_g [Combination 1] | 1733.7117 | 992158.7967 | -14.7068 |
| Beam 81: End 1: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.8464 | -31.9953 |
| Beam 81: End 1: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.6431 | -46.7021 |

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|--|------------|---------------|---------------|
| Beam 81: End 1: 7: SLU [Combination 4] | 8101.0453 | 4636020.5977 | -68.7115 |
| Beam 81: End 2: 1: Pesì propri | 597.4647 | 896631.3025 | -6.7080 |
| Beam 81: End 2: 2: Perm port | 712.7000 | 1069567.9614 | -7.9988 |
| Beam 81: End 2: 3: Variabile | 2850.8000 | 4278271.8458 | -31.9953 |
| Beam 81: End 2: 4: SLE_g [Combination 1] | | 1310.1647 | 1966199.2639 |
| Beam 81: End 2: 5: SLE_q [Combination 2] | | 2850.8000 | 4278271.8458 |
| Beam 81: End 2: 6: SLE_tot [Combination 3] | | 4160.9647 | 6244471.1097 |
| Beam 81: End 2: 7: SLU [Combination 4] | 6121.9541 | 9187380.4040 | -68.7115 |
| Beam 82: End 1: 1: Pesì propri | 597.4647 | 896631.3025 | -6.7080 |
| Beam 82: End 1: 2: Perm port | 712.7000 | 1069567.9614 | -7.9988 |
| Beam 82: End 1: 3: Variabile | 2850.8000 | 4278271.8458 | -31.9953 |
| Beam 82: End 1: 4: SLE_g [Combination 1] | | 1310.1647 | 1966199.2639 |
| Beam 82: End 1: 5: SLE_q [Combination 2] | | 2850.8000 | 4278271.8458 |
| Beam 82: End 1: 6: SLE_tot [Combination 3] | | 4160.9647 | 6244471.1097 |
| Beam 82: End 1: 7: SLU [Combination 4] | 6121.9541 | 9187380.4040 | -68.7115 |
| Beam 82: End 2: 1: Pesì propri | 404.3177 | 1217201.6844 | -6.7080 |
| Beam 82: End 2: 2: Perm port | 482.3000 | 1451967.9613 | -7.9988 |
| Beam 82: End 2: 3: Variabile | 1929.2000 | 5807871.8451 | -31.9953 |
| Beam 82: End 2: 4: SLE_g [Combination 1] | | 886.6177 | 2669169.6457 |
| Beam 82: End 2: 5: SLE_q [Combination 2] | | 1929.2000 | 5807871.8451 |
| Beam 82: End 2: 6: SLE_tot [Combination 3] | | 2815.8177 | 8477041.4908 |
| Beam 82: End 2: 7: SLU [Combination 4] | 4142.8630 | 12472121.8993 | -68.7115 |
| Beam 83: End 1: 1: Pesì propri | 404.3177 | 1217201.6844 | -6.7080 |
| Beam 83: End 1: 2: Perm port | 482.3000 | 1451967.9613 | -7.9988 |
| Beam 83: End 1: 3: Variabile | 1929.2000 | 5807871.8451 | -31.9953 |
| Beam 83: End 1: 4: SLE_g [Combination 1] | | 886.6177 | 2669169.6457 |
| Beam 83: End 1: 5: SLE_q [Combination 2] | | 1929.2000 | 5807871.8451 |
| Beam 83: End 1: 6: SLE_tot [Combination 3] | | 2815.8177 | 8477041.4908 |
| Beam 83: End 1: 7: SLU [Combination 4] | 4142.8630 | 12472121.8993 | -68.7115 |
| Beam 83: End 2: 1: Pesì propri | 211.1707 | 1414157.9809 | -6.7080 |
| Beam 83: End 2: 2: Perm port | 251.9000 | 1686911.9611 | -7.9988 |
| Beam 83: End 2: 3: Variabile | 1007.6000 | 6747647.8445 | -31.9953 |
| Beam 83: End 2: 4: SLE_g [Combination 1] | | 463.0707 | 3101069.9420 |
| Beam 83: End 2: 5: SLE_q [Combination 2] | | 1007.6000 | 6747647.8445 |
| Beam 83: End 2: 6: SLE_tot [Combination 3] | | 1470.6707 | 9848717.7865 |
| Beam 83: End 2: 7: SLU [Combination 4] | 2163.7719 | 14490245.0836 | -68.7115 |
| Beam 84: End 1: 1: Pesì propri | 211.1707 | 1414157.9809 | -6.7080 |
| Beam 84: End 1: 2: Perm port | 251.9000 | 1686911.9611 | -7.9988 |
| Beam 84: End 1: 3: Variabile | 1007.6000 | 6747647.8445 | -31.9953 |
| Beam 84: End 1: 4: SLE_g [Combination 1] | | 463.0707 | 3101069.9420 |
| Beam 84: End 1: 5: SLE_q [Combination 2] | | 1007.6000 | 6747647.8445 |
| Beam 84: End 1: 6: SLE_tot [Combination 3] | | 1470.6707 | 9848717.7865 |
| Beam 84: End 1: 7: SLU [Combination 4] | 2163.7719 | 14490245.0836 | -68.7115 |
| Beam 84: End 2: 1: Pesì propri | 18.0237 | 1487500.1920 | -6.7080 |
| Beam 84: End 2: 2: Perm port | 21.5000 | 1774399.9610 | -7.9988 |
| Beam 84: End 2: 3: Variabile | 86.0000 | 7097599.8438 | -31.9953 |
| Beam 84: End 2: 4: SLE_g [Combination 1] | | 39.5237 | 3261900.1530 |
| Beam 84: End 2: 5: SLE_q [Combination 2] | | 86.0000 | 7097599.8438 |
| Beam 84: End 2: 6: SLE_tot [Combination 3] | | 125.5237 | 10359499.9968 |
| Beam 84: End 2: 7: SLU [Combination 4] | 184.6808 | 15241749.9569 | -68.7115 |
| Beam 85: End 1: 1: Pesì propri | 18.0237 | 1487500.1920 | -6.7080 |
| Beam 85: End 1: 2: Perm port | 21.5000 | 1774399.9610 | -7.9988 |
| Beam 85: End 1: 3: Variabile | 86.0000 | 7097599.8438 | -31.9953 |
| Beam 85: End 1: 4: SLE_g [Combination 1] | | 39.5237 | 3261900.1530 |
| Beam 85: End 1: 5: SLE_q [Combination 2] | | 86.0000 | 7097599.8438 |
| Beam 85: End 1: 6: SLE_tot [Combination 3] | | 125.5237 | 10359499.9968 |
| Beam 85: End 1: 7: SLU [Combination 4] | 184.6808 | 15241749.9569 | -68.7115 |
| Beam 85: End 2: 1: Pesì propri | -175.1233 | 1437228.3178 | -6.7080 |
| Beam 85: End 2: 2: Perm port | -208.9000 | 1714431.9608 | -7.9988 |
| Beam 85: End 2: 3: Variabile | -835.6000 | 6857727.8432 | -31.9953 |
| Beam 85: End 2: 4: SLE_g [Combination 1] | | -384.0233 | 3151660.2786 |
| Beam 85: End 2: 5: SLE_q [Combination 2] | | -835.6000 | 6857727.8432 |
| Beam 85: End 2: 6: SLE_tot [Combination 3] | | -1219.6233 | 10009388.1218 |
| Beam 85: End 2: 7: SLU [Combination 4] | -1794.4103 | 14726636.5191 | -68.7115 |
| Beam 86: End 1: 1: Pesì propri | -175.1233 | 1437228.3178 | -6.7080 |
| Beam 86: End 1: 2: Perm port | -208.9000 | 1714431.9608 | -7.9988 |
| Beam 86: End 1: 3: Variabile | -835.6000 | 6857727.8432 | -31.9953 |
| Beam 86: End 1: 4: SLE_g [Combination 1] | | -384.0233 | 3151660.2786 |
| Beam 86: End 1: 5: SLE_q [Combination 2] | | -835.6000 | 6857727.8432 |
| Beam 86: End 1: 6: SLE_tot [Combination 3] | | -1219.6233 | 10009388.1218 |
| Beam 86: End 1: 7: SLU [Combination 4] | -1794.4103 | 14726636.5191 | -68.7115 |
| Beam 86: End 2: 1: Pesì propri | -368.2703 | 1263342.3581 | -6.7080 |
| Beam 86: End 2: 2: Perm port | -439.3000 | 1507007.9606 | -7.9988 |
| Beam 86: End 2: 3: Variabile | -1757.2000 | 6028031.8426 | -31.9953 |
| Beam 86: End 2: 4: SLE_g [Combination 1] | | -807.5703 | 2770350.3187 |
| Beam 86: End 2: 5: SLE_q [Combination 2] | | -1757.2000 | 6028031.8426 |
| Beam 86: End 2: 6: SLE_tot [Combination 3] | | -2564.7703 | 8798382.1613 |
| Beam 86: End 2: 7: SLU [Combination 4] | -3773.5014 | 12944904.7703 | -68.7115 |
| Beam 87: End 1: 1: Pesì propri | -368.2703 | 1263342.3581 | -6.7080 |

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|--|------------|---------------|----------|--|
| Beam 87: End 1: 2: Perm port | -439.3000 | 1507007.9606 | -7.9988 | |
| Beam 87: End 1: 3: Variabile | -1757.2000 | 6028031.8426 | -31.9953 | |
| Beam 87: End 1: 4: SLE_g [Combination 1] | -807.5703 | 2770350.3187 | -14.7068 | |
| Beam 87: End 1: 5: SLE_q [Combination 2] | -1757.2000 | 6028031.8426 | -31.9953 | |
| Beam 87: End 1: 6: SLE_tot [Combination 3] | -2564.7703 | 8798382.1613 | -46.7021 | |
| Beam 87: End 1: 7: SLU [Combination 4] | -3773.5014 | 12944904.7703 | -68.7115 | |
| Beam 87: End 2: 1: Pesi propri | -561.4173 | 965842.3130 | -6.7080 | |
| Beam 87: End 2: 2: Perm port | -669.7000 | 1152127.9605 | -7.9988 | |
| Beam 87: End 2: 3: Variabile | -2678.8000 | 4608511.8419 | -31.9953 | |
| Beam 87: End 2: 4: SLE_g [Combination 1] | -1231.1173 | 2117970.2735 | -14.7068 | |
| Beam 87: End 2: 5: SLE_q [Combination 2] | -2678.8000 | 4608511.8419 | -31.9953 | |
| Beam 87: End 2: 6: SLE_tot [Combination 3] | -3909.9173 | 6726482.1154 | -46.7021 | |
| Beam 87: End 2: 7: SLU [Combination 4] | -5752.5925 | 9896554.7104 | -68.7115 | |
| Beam 88: End 1: 1: Pesi propri | -561.4173 | 965842.3130 | -6.7080 | |
| Beam 88: End 1: 2: Perm port | -669.7000 | 1152127.9605 | -7.9988 | |
| Beam 88: End 1: 3: Variabile | -2678.8000 | 4608511.8419 | -31.9953 | |
| Beam 88: End 1: 4: SLE_g [Combination 1] | -1231.1173 | 2117970.2735 | -14.7068 | |
| Beam 88: End 1: 5: SLE_q [Combination 2] | -2678.8000 | 4608511.8419 | -31.9953 | |
| Beam 88: End 1: 6: SLE_tot [Combination 3] | -3909.9173 | 6726482.1154 | -46.7021 | |
| Beam 88: End 1: 7: SLU [Combination 4] | -5752.5925 | 9896554.7104 | -68.7115 | |
| Beam 88: End 2: 1: Pesi propri | -754.5643 | 544728.1825 | -6.7080 | |
| Beam 88: End 2: 2: Perm port | -900.1000 | 649791.9603 | -7.9988 | |
| Beam 88: End 2: 3: Variabile | -3600.4000 | 2599167.8413 | -31.9953 | |
| Beam 88: End 2: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1428 | -14.7068 | |
| Beam 88: End 2: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.8413 | -31.9953 | |
| Beam 88: End 2: 6: SLE_tot [Combination 3] | -5255.0643 | 3793687.9841 | -46.7021 | |
| Beam 88: End 2: 7: SLU [Combination 4] | -7731.6836 | 5581586.3396 | -68.7115 | |
| Beam 89: End 1: 1: Pesi propri | 953.5795 | -18484.7869 | 29.6523 | |
| Beam 89: End 1: 2: Perm port | 1137.5000 | -22050.0175 | 35.3773 | |
| Beam 89: End 1: 3: Variabile | 4550.0000 | -88200.0698 | 141.5093 | |
| Beam 89: End 1: 4: SLE_g [Combination 1] | 2091.0795 | -40534.8044 | 65.0296 | |
| Beam 89: End 1: 5: SLE_q [Combination 2] | 4550.0000 | -88200.0698 | 141.5093 | |
| Beam 89: End 1: 6: SLE_tot [Combination 3] | 6641.0795 | -128734.8742 | 206.5390 | |
| Beam 89: End 1: 7: SLU [Combination 4] | 9770.9034 | -189405.3540 | 303.8780 | |
| Beam 89: End 2: 1: Pesi propri | 790.6117 | 452446.8523 | 29.6523 | |
| Beam 89: End 2: 2: Perm port | 943.1000 | 539711.9822 | 35.3773 | |
| Beam 89: End 2: 3: Variabile | 3772.4000 | 2158847.9287 | 141.5093 | |
| Beam 89: End 2: 4: SLE_g [Combination 1] | 1733.7117 | 992158.8345 | 65.0296 | |
| Beam 89: End 2: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.9287 | 141.5093 | |
| Beam 89: End 2: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.7632 | 206.5390 | |
| Beam 89: End 2: 7: SLU [Combination 4] | 8101.0452 | 4636020.7743 | 303.8780 | |
| Beam 90: End 1: 1: Pesi propri | 790.6117 | 452446.8523 | 29.6523 | |
| Beam 90: End 1: 2: Perm port | 943.1000 | 539711.9822 | 35.3773 | |
| Beam 90: End 1: 3: Variabile | 3772.4000 | 2158847.9287 | 141.5093 | |
| Beam 90: End 1: 4: SLE_g [Combination 1] | 1733.7117 | 992158.8345 | 65.0296 | |
| Beam 90: End 1: 5: SLE_q [Combination 2] | 3772.4000 | 2158847.9287 | 141.5093 | |
| Beam 90: End 1: 6: SLE_tot [Combination 3] | 5506.1117 | 3151006.7632 | 206.5390 | |
| Beam 90: End 1: 7: SLU [Combination 4] | 8101.0452 | 4636020.7743 | 303.8780 | |
| Beam 90: End 2: 1: Pesi propri | 597.4647 | 896631.3194 | 29.6523 | |
| Beam 90: End 2: 2: Perm port | 712.7000 | 1069567.9817 | 35.3773 | |
| Beam 90: End 2: 3: Variabile | 2850.8000 | 4278271.9269 | 141.5093 | |
| Beam 90: End 2: 4: SLE_g [Combination 1] | 1310.1647 | 1966199.3012 | 65.0296 | |
| Beam 90: End 2: 5: SLE_q [Combination 2] | 2850.8000 | 4278271.9269 | 141.5093 | |
| Beam 90: End 2: 6: SLE_tot [Combination 3] | 4160.9647 | 6244471.2280 | 206.5390 | |
| Beam 90: End 2: 7: SLU [Combination 4] | 6121.9541 | 9187380.5782 | 303.8780 | |
| Beam 91: End 1: 1: Pesi propri | 597.4647 | 896631.3194 | 29.6523 | |
| Beam 91: End 1: 2: Perm port | 712.7000 | 1069567.9817 | 35.3773 | |
| Beam 91: End 1: 3: Variabile | 2850.8000 | 4278271.9269 | 141.5093 | |
| Beam 91: End 1: 4: SLE_g [Combination 1] | 1310.1647 | 1966199.3012 | 65.0296 | |
| Beam 91: End 1: 5: SLE_q [Combination 2] | 2850.8000 | 4278271.9269 | 141.5093 | |
| Beam 91: End 1: 6: SLE_tot [Combination 3] | 4160.9647 | 6244471.2280 | 206.5390 | |
| Beam 91: End 1: 7: SLU [Combination 4] | 6121.9541 | 9187380.5782 | 303.8780 | |
| Beam 91: End 2: 1: Pesi propri | 404.3177 | 1217201.7011 | 29.6523 | |
| Beam 91: End 2: 2: Perm port | 482.3000 | 1451967.9813 | 35.3773 | |
| Beam 91: End 2: 3: Variabile | 1929.2000 | 5807871.9251 | 141.5093 | |
| Beam 91: End 2: 4: SLE_g [Combination 1] | 886.6177 | 2669169.6824 | 65.0296 | |
| Beam 91: End 2: 5: SLE_q [Combination 2] | 1929.2000 | 5807871.9251 | 141.5093 | |
| Beam 91: End 2: 6: SLE_tot [Combination 3] | 2815.8177 | 8477041.6075 | 206.5390 | |
| Beam 91: End 2: 7: SLU [Combination 4] | 4142.8630 | 12472122.0711 | 303.8780 | |
| Beam 92: End 1: 1: Pesi propri | 404.3177 | 1217201.7011 | 29.6523 | |
| Beam 92: End 1: 2: Perm port | 482.3000 | 1451967.9813 | 35.3773 | |
| Beam 92: End 1: 3: Variabile | 1929.2000 | 5807871.9251 | 141.5093 | |
| Beam 92: End 1: 4: SLE_g [Combination 1] | 886.6177 | 2669169.6824 | 65.0296 | |
| Beam 92: End 1: 5: SLE_q [Combination 2] | 1929.2000 | 5807871.9251 | 141.5093 | |
| Beam 92: End 1: 6: SLE_tot [Combination 3] | 2815.8177 | 8477041.6075 | 206.5390 | |
| Beam 92: End 1: 7: SLU [Combination 4] | 4142.8630 | 12472122.0711 | 303.8780 | |
| Beam 92: End 2: 1: Pesi propri | 211.1707 | 1414157.9974 | 29.6523 | |
| Beam 92: End 2: 2: Perm port | 251.9000 | 1686911.9808 | 35.3773 | |
| Beam 92: End 2: 3: Variabile | 1007.6000 | 6747647.9233 | 141.5093 | |

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|--|------------|---------------|-----------|
| Beam 92: End 2: 4: SLE_g [Combination 1] | 463.0707 | 3101069.9783 | 65.0296 |
| Beam 92: End 2: 5: SLE_q [Combination 2] | 1007.6000 | 6747647.9233 | 141.5093 |
| Beam 92: End 2: 6: SLE_tot [Combination 3] | 1470.6707 | 9848717.9016 | 206.5390 |
| Beam 92: End 2: 7: SLU [Combination 4] | 2163.7719 | 14490245.2529 | 303.8780 |
| Beam 93: End 1: 1: Pesi propri | 211.1707 | 1414157.9974 | 29.6523 |
| Beam 93: End 1: 2: Perm port | 251.9000 | 1686911.9808 | 35.3773 |
| Beam 93: End 1: 3: Variabile | 1007.6000 | 6747647.9233 | 141.5093 |
| Beam 93: End 1: 4: SLE_g [Combination 1] | 463.0707 | 3101069.9783 | 65.0296 |
| Beam 93: End 1: 5: SLE_q [Combination 2] | 1007.6000 | 6747647.9233 | 141.5093 |
| Beam 93: End 1: 6: SLE_tot [Combination 3] | 1470.6707 | 9848717.9016 | 206.5390 |
| Beam 93: End 1: 7: SLU [Combination 4] | 2163.7719 | 14490245.2529 | 303.8780 |
| Beam 93: End 2: 1: Pesi propri | 18.0237 | 1487500.2083 | 29.6523 |
| Beam 93: End 2: 2: Perm port | 21.5000 | 1774399.9804 | 35.3773 |
| Beam 93: End 2: 3: Variabile | 86.0000 | 7097599.9216 | 141.5093 |
| Beam 93: End 2: 4: SLE_g [Combination 1] | 39.5237 | 3261900.1887 | 65.0296 |
| Beam 93: End 2: 5: SLE_q [Combination 2] | 86.0000 | 7097599.9216 | 141.5093 |
| Beam 93: End 2: 6: SLE_tot [Combination 3] | 125.5237 | 10359500.1103 | 206.5390 |
| Beam 93: End 2: 7: SLU [Combination 4] | 184.6808 | 15241750.1238 | 303.8780 |
| Beam 94: End 1: 1: Pesi propri | 18.0237 | 1487500.2083 | 29.6523 |
| Beam 94: End 1: 2: Perm port | 21.5000 | 1774399.9804 | 35.3773 |
| Beam 94: End 1: 3: Variabile | 86.0000 | 7097599.9216 | 141.5093 |
| Beam 94: End 1: 4: SLE_g [Combination 1] | 39.5237 | 3261900.1887 | 65.0296 |
| Beam 94: End 1: 5: SLE_q [Combination 2] | 86.0000 | 7097599.9216 | 141.5093 |
| Beam 94: End 1: 6: SLE_tot [Combination 3] | 125.5237 | 10359500.1103 | 206.5390 |
| Beam 94: End 1: 7: SLU [Combination 4] | 184.6808 | 15241750.1238 | 303.8780 |
| Beam 94: End 2: 1: Pesi propri | -175.1233 | 1437228.3338 | 29.6523 |
| Beam 94: End 2: 2: Perm port | -208.9000 | 1714431.9799 | 35.3773 |
| Beam 94: End 2: 3: Variabile | -835.6000 | 6857727.9198 | 141.5093 |
| Beam 94: End 2: 4: SLE_g [Combination 1] | -384.0233 | 3151660.3138 | 65.0296 |
| Beam 94: End 2: 5: SLE_q [Combination 2] | -835.6000 | 6857727.9198 | 141.5093 |
| Beam 94: End 2: 6: SLE_tot [Combination 3] | -1219.6233 | 10009388.2335 | 206.5390 |
| Beam 94: End 2: 7: SLU [Combination 4] | -1794.4103 | 14726636.6836 | 303.8780 |
| Beam 95: End 1: 1: Pesi propri | -175.1233 | 1437228.3338 | 29.6523 |
| Beam 95: End 1: 2: Perm port | -208.9000 | 1714431.9799 | 35.3773 |
| Beam 95: End 1: 3: Variabile | -835.6000 | 6857727.9198 | 141.5093 |
| Beam 95: End 1: 4: SLE_g [Combination 1] | -384.0233 | 3151660.3138 | 65.0296 |
| Beam 95: End 1: 5: SLE_q [Combination 2] | -835.6000 | 6857727.9198 | 141.5093 |
| Beam 95: End 1: 6: SLE_tot [Combination 3] | -1219.6233 | 10009388.2335 | 206.5390 |
| Beam 95: End 1: 7: SLU [Combination 4] | -1794.4103 | 14726636.6836 | 303.8780 |
| Beam 95: End 2: 1: Pesi propri | -368.2703 | 1263342.3739 | 29.6523 |
| Beam 95: End 2: 2: Perm port | -439.3000 | 1507007.9795 | 35.3773 |
| Beam 95: End 2: 3: Variabile | -1757.2000 | 6028031.9180 | 141.5093 |
| Beam 95: End 2: 4: SLE_g [Combination 1] | -807.5703 | 2770350.3534 | 65.0296 |
| Beam 95: End 2: 5: SLE_q [Combination 2] | -1757.2000 | 6028031.9180 | 141.5093 |
| Beam 95: End 2: 6: SLE_tot [Combination 3] | -2564.7703 | 8798382.2714 | 206.5390 |
| Beam 95: End 2: 7: SLU [Combination 4] | -3773.5014 | 12944904.9323 | 303.8780 |
| Beam 96: End 1: 1: Pesi propri | -368.2703 | 1263342.3739 | 29.6523 |
| Beam 96: End 1: 2: Perm port | -439.3000 | 1507007.9795 | 35.3773 |
| Beam 96: End 1: 3: Variabile | -1757.2000 | 6028031.9180 | 141.5093 |
| Beam 96: End 1: 4: SLE_g [Combination 1] | -807.5703 | 2770350.3534 | 65.0296 |
| Beam 96: End 1: 5: SLE_q [Combination 2] | -1757.2000 | 6028031.9180 | 141.5093 |
| Beam 96: End 1: 6: SLE_tot [Combination 3] | -2564.7703 | 8798382.2714 | 206.5390 |
| Beam 96: End 1: 7: SLU [Combination 4] | -3773.5014 | 12944904.9323 | 303.8780 |
| Beam 96: End 2: 1: Pesi propri | -561.4173 | 965842.3286 | 29.6523 |
| Beam 96: End 2: 2: Perm port | -669.7000 | 1152127.9791 | 35.3773 |
| Beam 96: End 2: 3: Variabile | -2678.8000 | 4608511.9162 | 141.5093 |
| Beam 96: End 2: 4: SLE_g [Combination 1] | -1231.1173 | 2117970.3076 | 65.0296 |
| Beam 96: End 2: 5: SLE_q [Combination 2] | -2678.8000 | 4608511.9162 | 141.5093 |
| Beam 96: End 2: 6: SLE_tot [Combination 3] | -3909.9173 | 6726482.2239 | 206.5390 |
| Beam 96: End 2: 7: SLU [Combination 4] | -5752.5925 | 9896554.8701 | 303.8780 |
| Beam 97: End 1: 1: Pesi propri | -561.4173 | 965842.3286 | 29.6523 |
| Beam 97: End 1: 2: Perm port | -669.7000 | 1152127.9791 | 35.3773 |
| Beam 97: End 1: 3: Variabile | -2678.8000 | 4608511.9162 | 141.5093 |
| Beam 97: End 1: 4: SLE_g [Combination 1] | -1231.1173 | 2117970.3076 | 65.0296 |
| Beam 97: End 1: 5: SLE_q [Combination 2] | -2678.8000 | 4608511.9162 | 141.5093 |
| Beam 97: End 1: 6: SLE_tot [Combination 3] | -3909.9173 | 6726482.2239 | 206.5390 |
| Beam 97: End 1: 7: SLU [Combination 4] | -5752.5925 | 9896554.8701 | 303.8780 |
| Beam 97: End 2: 1: Pesi propri | -754.5643 | 544728.1978 | 29.6523 |
| Beam 97: End 2: 2: Perm port | -900.1000 | 649791.9786 | 35.3773 |
| Beam 97: End 2: 3: Variabile | -3600.4000 | 2599167.9145 | 141.5093 |
| Beam 97: End 2: 4: SLE_g [Combination 1] | -1654.6643 | 1194520.1764 | 65.0296 |
| Beam 97: End 2: 5: SLE_q [Combination 2] | -3600.4000 | 2599167.9145 | 141.5093 |
| Beam 97: End 2: 6: SLE_tot [Combination 3] | -5255.0643 | 3793688.0909 | 206.5390 |
| Beam 97: End 2: 7: SLU [Combination 4] | -7731.6836 | 5581586.4968 | 303.8780 |
| Beam 98: End 1: 1: Pesi propri | 953.5663 | -30431.8561 | -24.2153 |
| Beam 98: End 1: 2: Perm port | 1137.4842 | -36301.3947 | -28.8856 |
| Beam 98: End 1: 3: Variabile | 4549.9368 | -145205.5789 | -115.5423 |
| Beam 98: End 1: 4: SLE_g [Combination 1] | 2091.0505 | -66733.2509 | -53.1008 |
| Beam 98: End 1: 5: SLE_q [Combination 2] | 4549.9368 | -145205.5789 | -115.5423 |

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| Beam 98: End 1: 6: SLE_tot [Combination 3] | 6640.9873 | -211938.8297 | -168.6432 |
| Beam 98: End 1: 7: SLU [Combination 4] | 9770.7677 | -311821.8733 | -248.1217 |
| Beam 98: End 2: 1: Pesi propri | 790.5985 | 440492.6292 | -24.2153 |
| Beam 98: End 2: 2: Perm port | 943.0842 | 525452.0767 | -28.8856 |
| Beam 98: End 2: 3: Variabile | 3772.3368 | 2101808.3068 | -115.5423 |
| Beam 98: End 2: 4: SLE_g [Combination 1] | 1733.6827 | 965944.7059 | -53.1008 |
| Beam 98: End 2: 5: SLE_q [Combination 2] | 3772.3368 | 2101808.3068 | -115.5423 |
| Beam 98: End 2: 6: SLE_tot [Combination 3] | 5506.0195 | 3067753.0127 | -168.6432 |
| Beam 98: End 2: 7: SLU [Combination 4] | 8100.9096 | 4513530.9932 | -248.1217 |
| Beam 99: End 1: 1: Pesi propri | 790.5985 | 440492.6292 | -24.2153 |
| Beam 99: End 1: 2: Perm port | 943.0842 | 525452.0767 | -28.8856 |
| Beam 99: End 1: 3: Variabile | 3772.3368 | 2101808.3068 | -115.5423 |
| Beam 99: End 1: 4: SLE_g [Combination 1] | 1733.6827 | 965944.7059 | -53.1008 |
| Beam 99: End 1: 5: SLE_q [Combination 2] | 3772.3368 | 2101808.3068 | -115.5423 |
| Beam 99: End 1: 6: SLE_tot [Combination 3] | 5506.0195 | 3067753.0127 | -168.6432 |
| Beam 99: End 1: 7: SLU [Combination 4] | 8100.9096 | 4513530.9932 | -248.1217 |
| Beam 99: End 2: 1: Pesi propri | 597.4515 | 884668.6175 | -24.2153 |
| Beam 99: End 2: 2: Perm port | 712.6842 | 1055297.9687 | -28.8856 |
| Beam 99: End 2: 3: Variabile | 2850.7368 | 4221191.8750 | -115.5423 |
| Beam 99: End 2: 4: SLE_g [Combination 1] | 1310.1357 | 1939966.5863 | -53.1008 |
| Beam 99: End 2: 5: SLE_q [Combination 2] | 2850.7368 | 4221191.8750 | -115.5423 |
| Beam 99: End 2: 6: SLE_tot [Combination 3] | 4160.8725 | 6161158.4612 | -168.6432 |
| Beam 99: End 2: 7: SLU [Combination 4] | 6121.8185 | 9064803.9684 | -248.1217 |
| Beam 100: End 1: 1: Pesi propri | 597.4515 | 884668.6175 | -24.2153 |
| Beam 100: End 1: 2: Perm port | 712.6842 | 1055297.9687 | -28.8856 |
| Beam 100: End 1: 3: Variabile | 2850.7368 | 4221191.8750 | -115.5423 |
| Beam 100: End 1: 4: SLE_g [Combination 1] | 1310.1357 | 1939966.5863 | -53.1008 |
| Beam 100: End 1: 5: SLE_q [Combination 2] | 2850.7368 | 4221191.8750 | -115.5423 |
| Beam 100: End 1: 6: SLE_tot [Combination 3] | 4160.8725 | 6161158.4612 | -168.6432 |
| Beam 100: End 1: 7: SLU [Combination 4] | 6121.8185 | 9064803.9684 | -248.1217 |
| Beam 100: End 2: 1: Pesi propri | 404.3045 | 1205230.5205 | -24.2153 |
| Beam 100: End 2: 2: Perm port | 482.2842 | 1437687.8608 | -28.8856 |
| Beam 100: End 2: 3: Variabile | 1929.1368 | 5750751.4432 | -115.5423 |
| Beam 100: End 2: 4: SLE_g [Combination 1] | 886.5887 | 2642918.3813 | -53.1008 |
| Beam 100: End 2: 5: SLE_q [Combination 2] | 1929.1368 | 5750751.4432 | -115.5423 |
| Beam 100: End 2: 6: SLE_tot [Combination 3] | 2815.7255 | 8393669.8244 | -168.6432 |
| Beam 100: End 2: 7: SLU [Combination 4] | 4142.7274 | 12349458.6325 | -248.1217 |
| Beam 101: End 1: 1: Pesi propri | 404.3045 | 1205230.5205 | -24.2153 |
| Beam 101: End 1: 2: Perm port | 482.2842 | 1437687.8608 | -28.8856 |
| Beam 101: End 1: 3: Variabile | 1929.1368 | 5750751.4432 | -115.5423 |
| Beam 101: End 1: 4: SLE_g [Combination 1] | 886.5887 | 2642918.3813 | -53.1008 |
| Beam 101: End 1: 5: SLE_q [Combination 2] | 1929.1368 | 5750751.4432 | -115.5423 |
| Beam 101: End 1: 6: SLE_tot [Combination 3] | 2815.7255 | 8393669.8244 | -168.6432 |
| Beam 101: End 1: 7: SLU [Combination 4] | 4142.7274 | 12349458.6325 | -248.1217 |
| Beam 101: End 2: 1: Pesi propri | 211.1575 | 1402178.3380 | -24.2153 |
| Beam 101: End 2: 2: Perm port | 251.8842 | 1672621.7528 | -28.8856 |
| Beam 101: End 2: 3: Variabile | 1007.5368 | 6690487.0113 | -115.5423 |
| Beam 101: End 2: 4: SLE_g [Combination 1] | 463.0417 | 3074800.0909 | -53.1008 |
| Beam 101: End 2: 5: SLE_q [Combination 2] | 1007.5368 | 6690487.0113 | -115.5423 |
| Beam 101: End 2: 6: SLE_tot [Combination 3] | 1470.5785 | 9765287.1022 | -168.6432 |
| Beam 101: End 2: 7: SLU [Combination 4] | 2163.6362 | 14367494.9857 | -248.1217 |
| Beam 102: End 1: 1: Pesi propri | 211.1575 | 1402178.3380 | -24.2153 |
| Beam 102: End 1: 2: Perm port | 251.8842 | 1672621.7528 | -28.8856 |
| Beam 102: End 1: 3: Variabile | 1007.5368 | 6690487.0113 | -115.5423 |
| Beam 102: End 1: 4: SLE_g [Combination 1] | 463.0417 | 3074800.0909 | -53.1008 |
| Beam 102: End 1: 5: SLE_q [Combination 2] | 1007.5368 | 6690487.0113 | -115.5423 |
| Beam 102: End 1: 6: SLE_tot [Combination 3] | 1470.5785 | 9765287.1022 | -168.6432 |
| Beam 102: End 1: 7: SLU [Combination 4] | 2163.6362 | 14367494.9857 | -248.1217 |
| Beam 102: End 2: 1: Pesi propri | 18.0105 | 1475512.0702 | -24.2153 |
| Beam 102: End 2: 2: Perm port | 21.4842 | 1760099.6449 | -28.8856 |
| Beam 102: End 2: 3: Variabile | 85.9368 | 7040398.5795 | -115.5423 |
| Beam 102: End 2: 4: SLE_g [Combination 1] | 39.4947 | 3235611.7150 | -53.1008 |
| Beam 102: End 2: 5: SLE_q [Combination 2] | 85.9368 | 7040398.5795 | -115.5423 |
| Beam 102: End 2: 6: SLE_tot [Combination 3] | 125.4315 | 10276010.2946 | -168.6432 |
| Beam 102: End 2: 7: SLU [Combination 4] | 184.5451 | 15118913.0278 | -248.1217 |
| Beam 103: End 1: 1: Pesi propri | 18.0105 | 1475512.0702 | -24.2153 |
| Beam 103: End 1: 2: Perm port | 21.4842 | 1760099.6449 | -28.8856 |
| Beam 103: End 1: 3: Variabile | 85.9368 | 7040398.5795 | -115.5423 |
| Beam 103: End 1: 4: SLE_g [Combination 1] | 39.4947 | 3235611.7150 | -53.1008 |
| Beam 103: End 1: 5: SLE_q [Combination 2] | 85.9368 | 7040398.5795 | -115.5423 |
| Beam 103: End 1: 6: SLE_tot [Combination 3] | 125.4315 | 10276010.2946 | -168.6432 |
| Beam 103: End 1: 7: SLU [Combination 4] | 184.5451 | 15118913.0278 | -248.1217 |
| Beam 103: End 2: 1: Pesi propri | -175.1366 | 1425231.7169 | -24.2153 |
| Beam 103: End 2: 2: Perm port | -208.9158 | 1700121.5369 | -28.8856 |
| Beam 103: End 2: 3: Variabile | -835.6632 | 6800486.1477 | -115.5423 |
| Beam 103: End 2: 4: SLE_g [Combination 1] | -384.0523 | 3125353.2538 | -53.1008 |
| Beam 103: End 2: 5: SLE_q [Combination 2] | -835.6632 | 6800486.1477 | -115.5423 |
| Beam 103: End 2: 6: SLE_tot [Combination 3] | -1219.7155 | 9925839.4015 | -168.6432 |
| Beam 103: End 2: 7: SLU [Combination 4] | -1794.5460 | 14603712.7589 | -248.1217 |

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| Beam 104: End 1: 1: Pesi propri | -175.1366 | 1425231.7169 | -24.2153 | |
| Beam 104: End 1: 2: Perm port | -208.9158 | 1700121.5369 | -28.8856 | |
| Beam 104: End 1: 3: Variabile | -835.6632 | 6800486.1477 | -115.5423 | |
| Beam 104: End 1: 4: SLE_g [Combination 1] | -384.0523 | 3125353.2538 | -53.1008 | |
| Beam 104: End 1: 5: SLE_q [Combination 2] | -835.6632 | 6800486.1477 | -115.5423 | |
| Beam 104: End 1: 6: SLE_tot [Combination 3] | -1219.7155 | 9925839.4015 | -168.6432 | |
| Beam 104: End 1: 7: SLU [Combination 4] | -1794.5460 | 14603712.7589 | -248.1217 | |
| Beam 104: End 2: 1: Pesi propri | -368.2836 | 1251337.2782 | -24.2153 | |
| Beam 104: End 2: 2: Perm port | -439.3158 | 1492687.4290 | -28.8856 | |
| Beam 104: End 2: 3: Variabile | -1757.2632 | 5970749.7159 | -115.5423 | |
| Beam 104: End 2: 4: SLE_g [Combination 1] | -807.5994 | 2744024.7072 | -53.1008 | |
| Beam 104: End 2: 5: SLE_q [Combination 2] | -1757.2632 | 5970749.7159 | -115.5423 | |
| Beam 104: End 2: 6: SLE_tot [Combination 3] | -2564.8625 | 8714774.4231 | -168.6432 | |
| Beam 104: End 2: 7: SLU [Combination 4] | -3773.6371 | 12821894.1790 | -248.1217 | |
| Beam 105: End 1: 1: Pesi propri | -368.2836 | 1251337.2782 | -24.2153 | |
| Beam 105: End 1: 2: Perm port | -439.3158 | 1492687.4290 | -28.8856 | |
| Beam 105: End 1: 3: Variabile | -1757.2632 | 5970749.7159 | -115.5423 | |
| Beam 105: End 1: 4: SLE_g [Combination 1] | -807.5994 | 2744024.7072 | -53.1008 | |
| Beam 105: End 1: 5: SLE_q [Combination 2] | -1757.2632 | 5970749.7159 | -115.5423 | |
| Beam 105: End 1: 6: SLE_tot [Combination 3] | -2564.8625 | 8714774.4231 | -168.6432 | |
| Beam 105: End 1: 7: SLU [Combination 4] | -3773.6371 | 12821894.1790 | -248.1217 | |
| Beam 105: End 2: 1: Pesi propri | -561.4306 | 953828.7542 | -24.2153 | |
| Beam 105: End 2: 2: Perm port | -669.7158 | 1137797.3210 | -28.8856 | |
| Beam 105: End 2: 3: Variabile | -2678.8632 | 4551189.2840 | -115.5423 | |
| Beam 105: End 2: 4: SLE_g [Combination 1] | -1231.1464 | 2091626.0752 | -53.1008 | |
| Beam 105: End 2: 5: SLE_q [Combination 2] | -2678.8632 | 4551189.2840 | -115.5423 | |
| Beam 105: End 2: 6: SLE_tot [Combination 3] | -3910.0095 | 6642815.3592 | -168.6432 | |
| Beam 105: End 2: 7: SLU [Combination 4] | -5752.7282 | 9773457.2880 | -248.1217 | |
| Beam 106: End 1: 1: Pesi propri | -561.4306 | 953828.7542 | -24.2153 | |
| Beam 106: End 1: 2: Perm port | -669.7158 | 1137797.3210 | -28.8856 | |
| Beam 106: End 1: 3: Variabile | -2678.8632 | 4551189.2840 | -115.5423 | |
| Beam 106: End 1: 4: SLE_g [Combination 1] | -1231.1464 | 2091626.0752 | -53.1008 | |
| Beam 106: End 1: 5: SLE_q [Combination 2] | -2678.8632 | 4551189.2840 | -115.5423 | |
| Beam 106: End 1: 6: SLE_tot [Combination 3] | -3910.0095 | 6642815.3592 | -168.6432 | |
| Beam 106: End 1: 7: SLU [Combination 4] | -5752.7282 | 9773457.2880 | -248.1217 | |
| Beam 106: End 2: 1: Pesi propri | -754.5776 | 532706.1447 | -24.2153 | |
| Beam 106: End 2: 2: Perm port | -900.1158 | 635451.2131 | -28.8856 | |
| Beam 106: End 2: 3: Variabile | -3600.4632 | 2541804.8522 | -115.5423 | |
| Beam 106: End 2: 4: SLE_g [Combination 1] | -1654.6934 | 1168157.3577 | -53.1008 | |
| Beam 106: End 2: 5: SLE_q [Combination 2] | -3600.4632 | 2541804.8522 | -115.5423 | |
| Beam 106: End 2: 6: SLE_tot [Combination 3] | -5255.1565 | 3709962.2100 | -168.6432 | |
| Beam 106: End 2: 7: SLU [Combination 4] | -7731.8193 | 5458402.0860 | -248.1217 | |
| Beam 107: End 1: 1: Pesi propri | -1205.2560 | -22362.5076 | -0.0038 | |
| Beam 107: End 1: 2: Perm port | -918.7500 | -17.2400 | -0.0096 | |
| Beam 107: End 1: 3: Variabile | -3675.0000 | -68.9599 | -0.0384 | |
| Beam 107: End 1: 4: SLE_g [Combination 1] | -2124.0060 | -22379.7476 | -0.0134 | |
| Beam 107: End 1: 5: SLE_q [Combination 2] | -3675.0000 | -68.9599 | -0.0384 | |
| Beam 107: End 1: 6: SLE_tot [Combination 3] | -5799.0060 | -22448.7074 | -0.0518 | |
| Beam 107: End 1: 7: SLU [Combination 4] | -8457.4579 | -29200.5596 | -0.0769 | |
| Beam 107: End 2: 1: Pesi propri | -1348.0317 | -389397.6239 | -0.0038 | |
| Beam 107: End 2: 2: Perm port | -918.7500 | -264157.8654 | -0.0096 | |
| Beam 107: End 2: 3: Variabile | -3675.0000 | -1056631.4617 | -0.0384 | |
| Beam 107: End 2: 4: SLE_g [Combination 1] | -2266.7817 | -653555.4893 | -0.0134 | |
| Beam 107: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -1056631.4617 | -0.0384 | |
| Beam 107: End 2: 6: SLE_tot [Combination 3] | -5941.7817 | -1710186.9510 | -0.0518 | |
| Beam 107: End 2: 7: SLU [Combination 4] | -8643.0663 | -2487400.9017 | -0.0769 | |
| Beam 108: End 1: 1: Pesi propri | -1348.0317 | -389397.6239 | -0.0038 | |
| Beam 108: End 1: 2: Perm port | -918.7500 | -264157.8654 | -0.0096 | |
| Beam 108: End 1: 3: Variabile | -3675.0000 | -1056631.4617 | -0.0384 | |
| Beam 108: End 1: 4: SLE_g [Combination 1] | -2266.7817 | -653555.4893 | -0.0134 | |
| Beam 108: End 1: 5: SLE_q [Combination 2] | -3675.0000 | -1056631.4617 | -0.0384 | |
| Beam 108: End 1: 6: SLE_tot [Combination 3] | -5941.7817 | -1710186.9510 | -0.0518 | |
| Beam 108: End 1: 7: SLU [Combination 4] | -8643.0663 | -2487400.9017 | -0.0769 | |
| Beam 108: End 2: 1: Pesi propri | -1490.8074 | -797480.7523 | -0.0038 | |
| Beam 108: End 2: 2: Perm port | -918.7500 | -528298.4909 | -0.0096 | |
| Beam 108: End 2: 3: Variabile | -3675.0000 | -2113193.9634 | -0.0384 | |
| Beam 108: End 2: 4: SLE_g [Combination 1] | -2409.5574 | -1325779.2432 | -0.0134 | |
| Beam 108: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -2113193.9634 | -0.0384 | |
| Beam 108: End 2: 6: SLE_tot [Combination 3] | -6084.5574 | -3438973.2066 | -0.0518 | |
| Beam 108: End 2: 7: SLU [Combination 4] | -8828.6747 | -4998963.6594 | -0.0769 | |
| Beam 109: End 1: 1: Pesi propri | -1490.8074 | -797480.7523 | -0.0038 | |
| Beam 109: End 1: 2: Perm port | -918.7500 | -528298.4909 | -0.0096 | |
| Beam 109: End 1: 3: Variabile | -3675.0000 | -2113193.9634 | -0.0384 | |
| Beam 109: End 1: 4: SLE_g [Combination 1] | -2409.5574 | -1325779.2432 | -0.0134 | |
| Beam 109: End 1: 5: SLE_q [Combination 2] | -3675.0000 | -2113193.9634 | -0.0384 | |
| Beam 109: End 1: 6: SLE_tot [Combination 3] | -6084.5574 | -3438973.2066 | -0.0518 | |
| Beam 109: End 1: 7: SLU [Combination 4] | -8828.6747 | -4998963.6594 | -0.0769 | |
| Beam 109: End 2: 1: Pesi propri | -1633.5831 | -1246611.8927 | -0.0038 | |
| Beam 109: End 2: 2: Perm port | -918.7500 | -792439.1163 | -0.0096 | |

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| Beam 109: End 2: 3: Variabile | -3675.0000 | -3169756.4652 | -0.0384 | |
| Beam 109: End 2: 4: SLE_g [Combination 1] | -2552.3331 | -2039051.0090 | -0.0134 | |
| Beam 109: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -3169756.4652 | -0.0384 | |
| Beam 109: End 2: 6: SLE_tot [Combination 3] | -6227.3331 | -5208807.4742 | -0.0518 | |
| Beam 109: End 2: 7: SLU [Combination 4] | -9014.2831 | -7563888.8328 | -0.0769 | |
| Beam 110: End 1: 1: Pesi propri | 1972.6863 | -1736806.0587 | 2426.9449 | |
| Beam 110: End 1: 2: Perm port | 1201.5167 | -1056596.9885 | 1641.3798 | |
| Beam 110: End 1: 3: Variabile | 4806.0670 | -4226387.9541 | 6565.5192 | |
| Beam 110: End 1: 4: SLE_g [Combination 1] | 3174.2031 | -2793403.0472 | 4068.3248 | |
| Beam 110: End 1: 5: SLE_q [Combination 2] | 4806.0670 | -4226387.9541 | 6565.5192 | |
| Beam 110: End 1: 6: SLE_tot [Combination 3] | 7980.2701 | -7019791.0014 | 10633.8440 | |
| Beam 110: End 1: 7: SLU [Combination 4] | 11575.8678 | -10182325.2903 | 15465.3770 | |
| Beam 110: End 2: 1: Pesi propri | 1823.7030 | -1167347.6585 | 2426.9449 | |
| Beam 110: End 2: 2: Perm port | 1201.5167 | -696141.9641 | 1641.3798 | |
| Beam 110: End 2: 3: Variabile | 4806.0670 | -2784567.8566 | 6565.5192 | |
| Beam 110: End 2: 4: SLE_g [Combination 1] | 3025.2197 | -1863489.6226 | 4068.3248 | |
| Beam 110: End 2: 5: SLE_q [Combination 2] | 4806.0670 | -2784567.8566 | 6565.5192 | |
| Beam 110: End 2: 6: SLE_tot [Combination 3] | 7831.2867 | -4648057.4792 | 10633.8440 | |
| Beam 110: End 2: 7: SLU [Combination 4] | 11382.1895 | -6738616.6871 | 15465.3770 | |
| Beam 111: End 1: 1: Pesi propri | 1823.7030 | -1167347.6585 | 2426.9449 | |
| Beam 111: End 1: 2: Perm port | 1201.5167 | -696141.9641 | 1641.3798 | |
| Beam 111: End 1: 3: Variabile | 4806.0670 | -2784567.8566 | 6565.5192 | |
| Beam 111: End 1: 4: SLE_g [Combination 1] | 3025.2197 | -1863489.6226 | 4068.3248 | |
| Beam 111: End 1: 5: SLE_q [Combination 2] | 4806.0670 | -2784567.8566 | 6565.5192 | |
| Beam 111: End 1: 6: SLE_tot [Combination 3] | 7831.2867 | -4648057.4792 | 10633.8440 | |
| Beam 111: End 1: 7: SLU [Combination 4] | 11382.1895 | -6738616.6871 | 15465.3770 | |
| Beam 111: End 2: 1: Pesi propri | 1674.7197 | -642584.2581 | 2426.9449 | |
| Beam 111: End 2: 2: Perm port | 1201.5167 | -335686.9398 | 1641.3798 | |
| Beam 111: End 2: 3: Variabile | 4806.0670 | -1342747.7590 | 6565.5192 | |
| Beam 111: End 2: 4: SLE_g [Combination 1] | 2876.2364 | -978271.1979 | 4068.3248 | |
| Beam 111: End 2: 5: SLE_q [Combination 2] | 4806.0670 | -1342747.7590 | 6565.5192 | |
| Beam 111: End 2: 6: SLE_tot [Combination 3] | 7682.3034 | -2321018.9569 | 10633.8440 | |
| Beam 111: End 2: 7: SLU [Combination 4] | 11188.5112 | -3353011.5837 | 15465.3770 | |
| Beam 112: End 1: 1: Pesi propri | 1674.7197 | -642584.2581 | 2426.9449 | |
| Beam 112: End 1: 2: Perm port | 1201.5167 | -335686.9398 | 1641.3798 | |
| Beam 112: End 1: 3: Variabile | 4806.0670 | -1342747.7590 | 6565.5192 | |
| Beam 112: End 1: 4: SLE_g [Combination 1] | 2876.2364 | -978271.1979 | 4068.3248 | |
| Beam 112: End 1: 5: SLE_q [Combination 2] | 4806.0670 | -1342747.7590 | 6565.5192 | |
| Beam 112: End 1: 6: SLE_tot [Combination 3] | 7682.3034 | -2321018.9569 | 10633.8440 | |
| Beam 112: End 1: 7: SLU [Combination 4] | 11188.5112 | -3353011.5837 | 15465.3770 | |
| Beam 112: End 2: 1: Pesi propri | 1525.7363 | -162515.8577 | 2426.9449 | |
| Beam 112: End 2: 2: Perm port | 1201.5167 | 24768.0846 | 1641.3798 | |
| Beam 112: End 2: 3: Variabile | 4806.0670 | 99072.3386 | 6565.5192 | |
| Beam 112: End 2: 4: SLE_g [Combination 1] | 2727.2531 | -137747.7730 | 4068.3248 | |
| Beam 112: End 2: 5: SLE_q [Combination 2] | 4806.0670 | 99072.3386 | 6565.5192 | |
| Beam 112: End 2: 6: SLE_tot [Combination 3] | 7533.3201 | -38675.4345 | 10633.8440 | |
| Beam 112: End 2: 7: SLU [Combination 4] | 10994.8328 | -25509.9802 | 15465.3770 | |
| Beam 113: End 1: 1: Pesi propri | 317.5462 | 272851.8060 | 2426.9365 | |
| Beam 113: End 1: 2: Perm port | -61.9833 | 385216.8847 | 1641.3649 | |
| Beam 113: End 1: 3: Variabile | -247.9330 | 1540867.5388 | 6565.4597 | |
| Beam 113: End 1: 4: SLE_g [Combination 1] | 255.5630 | 658068.6907 | 4068.3015 | |
| Beam 113: End 1: 5: SLE_q [Combination 2] | -247.9330 | 1540867.5388 | 6565.4597 | |
| Beam 113: End 1: 6: SLE_tot [Combination 3] | 7.6300 | 2198936.2295 | 10633.7612 | |
| Beam 113: End 1: 7: SLU [Combination 4] | -52.0643 | 3243833.9830 | 15465.2544 | |
| Beam 113: End 2: 1: Pesi propri | 168.5629 | 345768.1693 | 2426.9365 | |
| Beam 113: End 2: 2: Perm port | -61.9833 | 366621.9095 | 1641.3649 | |
| Beam 113: End 2: 3: Variabile | -247.9330 | 1466487.6382 | 6565.4597 | |
| Beam 113: End 2: 4: SLE_g [Combination 1] | 106.5796 | 712390.0789 | 4068.3015 | |
| Beam 113: End 2: 5: SLE_q [Combination 2] | -247.9330 | 1466487.6382 | 6565.4597 | |
| Beam 113: End 2: 6: SLE_tot [Combination 3] | -141.3534 | 2178877.7170 | 10633.7612 | |
| Beam 113: End 2: 7: SLU [Combination 4] | -245.7426 | 3199162.9417 | 15465.2544 | |
| Beam 114: End 1: 1: Pesi propri | 168.5629 | 345768.1693 | 2426.9365 | |
| Beam 114: End 1: 2: Perm port | -61.9833 | 366621.9095 | 1641.3649 | |
| Beam 114: End 1: 3: Variabile | -247.9330 | 1466487.6382 | 6565.4597 | |
| Beam 114: End 1: 4: SLE_g [Combination 1] | 106.5796 | 712390.0789 | 4068.3015 | |
| Beam 114: End 1: 5: SLE_q [Combination 2] | -247.9330 | 1466487.6382 | 6565.4597 | |
| Beam 114: End 1: 6: SLE_tot [Combination 3] | -141.3534 | 2178877.7170 | 10633.7612 | |
| Beam 114: End 1: 7: SLU [Combination 4] | -245.7426 | 3199162.9417 | 15465.2544 | |
| Beam 114: End 2: 1: Pesi propri | 19.5795 | 373989.5328 | 2426.9365 | |
| Beam 114: End 2: 2: Perm port | -61.9833 | 348026.9344 | 1641.3649 | |
| Beam 114: End 2: 3: Variabile | -247.9330 | 1392107.7375 | 6565.4597 | |
| Beam 114: End 2: 4: SLE_g [Combination 1] | -42.4037 | 722016.4672 | 4068.3015 | |
| Beam 114: End 2: 5: SLE_q [Combination 2] | -247.9330 | 1392107.7375 | 6565.4597 | |
| Beam 114: End 2: 6: SLE_tot [Combination 3] | -290.3367 | 2114124.2047 | 10633.7612 | |
| Beam 114: End 2: 7: SLU [Combination 4] | -439.4210 | 3096388.4005 | 15465.2544 | |
| Beam 115: End 1: 1: Pesi propri | 19.5795 | 373989.5328 | 2426.9365 | |
| Beam 115: End 1: 2: Perm port | -61.9833 | 348026.9344 | 1641.3649 | |
| Beam 115: End 1: 3: Variabile | -247.9330 | 1392107.7375 | 6565.4597 | |
| Beam 115: End 1: 4: SLE_g [Combination 1] | -42.4037 | 722016.4672 | 4068.3015 | |

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| Beam 115: End 1: 5: SLE_q [Combination 2] | -247.9330 | 1392107.7375 | 6565.4597 |
| Beam 115: End 1: 6: SLE_tot [Combination 3] | -290.3367 | 2114124.2047 | 10633.7612 |
| Beam 115: End 1: 7: SLU [Combination 4] | -439.4210 | 3096388.4005 | 15465.2544 |
| Beam 115: End 2: 1: Pesi propri | -129.4038 | 357515.8965 | 2426.9365 |
| Beam 115: End 2: 2: Perm port | -61.9833 | 329431.9592 | 1641.3649 |
| Beam 115: End 2: 3: Variabile | -247.9330 | 1317727.8368 | 6565.4597 |
| Beam 115: End 2: 4: SLE_g [Combination 1] | -191.3870 | 686947.8557 | 4068.3015 |
| Beam 115: End 2: 5: SLE_q [Combination 2] | -247.9330 | 1317727.8368 | 6565.4597 |
| Beam 115: End 2: 6: SLE_tot [Combination 3] | -439.3200 | 2004675.6925 | 10633.7612 |
| Beam 115: End 2: 7: SLU [Combination 4] | -633.0993 | 2935510.3595 | 15465.2544 |
| Beam 116: End 1: 1: Pesi propri | -1337.5939 | 296355.5821 | 2426.9276 |
| Beam 116: End 1: 2: Perm port | -1325.4833 | 310847.3993 | 1641.3505 |
| Beam 116: End 1: 3: Variabile | -5301.9330 | 1243389.5971 | 6565.4020 |
| Beam 116: End 1: 4: SLE_g [Combination 1] | -2663.0772 | 607202.9814 | 4068.2781 |
| Beam 116: End 1: 5: SLE_q [Combination 2] | -5301.9330 | 1243389.5971 | 6565.4020 |
| Beam 116: End 1: 6: SLE_tot [Combination 3] | -7965.0102 | 1850592.5785 | 10633.6801 |
| Beam 116: End 1: 7: SLU [Combination 4] | -11679.9965 | 2716617.7514 | 15465.1346 |
| Beam 116: End 2: 1: Pesi propri | -1579.6918 | -414732.8178 | 2426.9276 |
| Beam 116: End 2: 2: Perm port | -1325.4833 | -335325.6852 | 1641.3505 |
| Beam 116: End 2: 3: Variabile | -5301.9330 | -1341302.7409 | 6565.4020 |
| Beam 116: End 2: 4: SLE_g [Combination 1] | -2905.1751 | -750058.5030 | 4068.2781 |
| Beam 116: End 2: 5: SLE_q [Combination 2] | -5301.9330 | -1341302.7409 | 6565.4020 |
| Beam 116: End 2: 6: SLE_tot [Combination 3] | -8207.1081 | -2091361.2439 | 10633.6801 |
| Beam 116: End 2: 7: SLU [Combination 4] | -11994.7238 | -3054095.3024 | 15465.1346 |
| Beam 117: End 1: 1: Pesi propri | -1579.6918 | -414732.8178 | 2426.9276 |
| Beam 117: End 1: 2: Perm port | -1325.4833 | -335325.6852 | 1641.3505 |
| Beam 117: End 1: 3: Variabile | -5301.9330 | -1341302.7409 | 6565.4020 |
| Beam 117: End 1: 4: SLE_g [Combination 1] | -2905.1751 | -750058.5030 | 4068.2781 |
| Beam 117: End 1: 5: SLE_q [Combination 2] | -5301.9330 | -1341302.7409 | 6565.4020 |
| Beam 117: End 1: 6: SLE_tot [Combination 3] | -8207.1081 | -2091361.2439 | 10633.6801 |
| Beam 117: End 1: 7: SLU [Combination 4] | -11994.7238 | -3054095.3024 | 15465.1346 |
| Beam 117: End 2: 1: Pesi propri | -1722.4675 | -889418.2248 | 2426.9276 |
| Beam 117: End 2: 2: Perm port | -1325.4833 | -716402.1197 | 1641.3505 |
| Beam 117: End 2: 3: Variabile | -5301.9330 | -2865608.4788 | 6565.4020 |
| Beam 117: End 2: 4: SLE_g [Combination 1] | -3047.9508 | -1605820.3445 | 4068.2781 |
| Beam 117: End 2: 5: SLE_q [Combination 2] | -5301.9330 | -2865608.4788 | 6565.4020 |
| Beam 117: End 2: 6: SLE_tot [Combination 3] | -8349.8838 | -4471428.8233 | 10633.6801 |
| Beam 117: End 2: 7: SLU [Combination 4] | -12180.3322 | -6529259.5899 | 15465.1346 |
| Beam 118: End 1: 1: Pesi propri | -1722.4675 | -889418.2248 | 2426.9276 |
| Beam 118: End 1: 2: Perm port | -1325.4833 | -716402.1197 | 1641.3505 |
| Beam 118: End 1: 3: Variabile | -5301.9330 | -2865608.4788 | 6565.4020 |
| Beam 118: End 1: 4: SLE_g [Combination 1] | -3047.9508 | -1605820.3445 | 4068.2781 |
| Beam 118: End 1: 5: SLE_q [Combination 2] | -5301.9330 | -2865608.4788 | 6565.4020 |
| Beam 118: End 1: 6: SLE_tot [Combination 3] | -8349.8838 | -4471428.8233 | 10633.6801 |
| Beam 118: End 1: 7: SLU [Combination 4] | -12180.3322 | -6529259.5899 | 15465.1346 |
| Beam 118: End 2: 1: Pesi propri | -1865.2432 | -1405151.6438 | 2426.9276 |
| Beam 118: End 2: 2: Perm port | -1325.4833 | -1097478.5542 | 1641.3505 |
| Beam 118: End 2: 3: Variabile | -5301.9330 | -4389914.2166 | 6565.4020 |
| Beam 118: End 2: 4: SLE_g [Combination 1] | -3190.7265 | -2502630.1980 | 4068.2781 |
| Beam 118: End 2: 5: SLE_q [Combination 2] | -5301.9330 | -4389914.2166 | 6565.4020 |
| Beam 118: End 2: 6: SLE_tot [Combination 3] | -8492.6595 | -6892544.4146 | 10633.6801 |
| Beam 118: End 2: 7: SLU [Combination 4] | -12365.9406 | -10057786.2931 | 15465.1346 |
| Beam 119: End 1: 1: Pesi propri | 2391.1395 | -1666317.5309 | 2299.7851 |
| Beam 119: End 1: 2: Perm port | 1618.9781 | -1279732.7297 | 1555.8535 |
| Beam 119: End 1: 3: Variabile | 6475.9123 | -5118930.9186 | 6223.4140 |
| Beam 119: End 1: 4: SLE_g [Combination 1] | 4010.1175 | -2946050.2606 | 3855.6386 |
| Beam 119: End 1: 5: SLE_q [Combination 2] | 6475.9123 | -5118930.9186 | 6223.4140 |
| Beam 119: End 1: 6: SLE_tot [Combination 3] | 10486.0298 | -8064981.1792 | 10079.0526 |
| Beam 119: End 1: 7: SLU [Combination 4] | 15250.8168 | -11764208.2626 | 14658.6218 |
| Beam 119: End 2: 1: Pesi propri | 2173.8721 | -667721.2543 | 2299.7851 |
| Beam 119: End 2: 2: Perm port | 1618.9781 | -571429.8271 | 1555.8535 |
| Beam 119: End 2: 3: Variabile | 6475.9123 | -2285719.3082 | 6223.4140 |
| Beam 119: End 2: 4: SLE_g [Combination 1] | 3792.8502 | -1239151.0814 | 3855.6386 |
| Beam 119: End 2: 5: SLE_q [Combination 2] | 6475.9123 | -2285719.3082 | 6223.4140 |
| Beam 119: End 2: 6: SLE_tot [Combination 3] | 10268.7624 | -3524870.3896 | 10079.0526 |
| Beam 119: End 2: 7: SLU [Combination 4] | 14968.3692 | -5153761.3336 | 14658.6218 |
| Beam 120: End 1: 1: Pesi propri | 2173.8721 | -667721.2543 | 2299.7851 |
| Beam 120: End 1: 2: Perm port | 1618.9781 | -571429.8271 | 1555.8535 |
| Beam 120: End 1: 3: Variabile | 6475.9123 | -2285719.3082 | 6223.4140 |
| Beam 120: End 1: 4: SLE_g [Combination 1] | 3792.8502 | -1239151.0814 | 3855.6386 |
| Beam 120: End 1: 5: SLE_q [Combination 2] | 6475.9123 | -2285719.3082 | 6223.4140 |
| Beam 120: End 1: 6: SLE_tot [Combination 3] | 10268.7624 | -3524870.3896 | 10079.0526 |
| Beam 120: End 1: 7: SLU [Combination 4] | 14968.3692 | -5153761.3336 | 14658.6218 |
| Beam 120: End 2: 1: Pesi propri | 2031.0964 | -63257.0331 | 2299.7851 |
| Beam 120: End 2: 2: Perm port | 1618.9781 | -105973.6339 | 1555.8535 |
| Beam 120: End 2: 3: Variabile | 6475.9123 | -423894.5357 | 6223.4140 |
| Beam 120: End 2: 4: SLE_g [Combination 1] | 3650.0745 | -169230.6670 | 3855.6386 |
| Beam 120: End 2: 5: SLE_q [Combination 2] | 6475.9123 | -423894.5357 | 6223.4140 |
| Beam 120: End 2: 6: SLE_tot [Combination 3] | 10125.9867 | -593125.2027 | 10079.0526 |

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| Beam 120: End 2: 7: SLU [Combination 4] | 14782.7608 | -877036.3974 | 14658.6218 |
| Beam 121: End 1: 1: Pesi propri | 2031.0964 | -63257.0331 | 2299.7851 |
| Beam 121: End 1: 2: Perm port | 1618.9781 | -105973.6339 | 1555.8535 |
| Beam 121: End 1: 3: Variabile | 6475.9123 | -423894.5357 | 6223.4140 |
| Beam 121: End 1: 4: SLE_g [Combination 1] | 3650.0745 | -169230.6670 | 3855.6386 |
| Beam 121: End 1: 5: SLE_q [Combination 2] | 6475.9123 | -423894.5357 | 6223.4140 |
| Beam 121: End 1: 6: SLE_tot [Combination 3] | 10125.9867 | -593125.2027 | 10079.0526 |
| Beam 121: End 1: 7: SLU [Combination 4] | 14782.7608 | -877036.3974 | 14658.6218 |
| Beam 121: End 2: 1: Pesi propri | 1888.3207 | 500159.1762 | 2299.7851 |
| Beam 121: End 2: 2: Perm port | 1618.9781 | 359482.5592 | 1555.8535 |
| Beam 121: End 2: 3: Variabile | 6475.9123 | 1437930.2368 | 6223.4140 |
| Beam 121: End 2: 4: SLE_g [Combination 1] | 3507.2988 | 859641.7354 | 3855.6386 |
| Beam 121: End 2: 5: SLE_q [Combination 2] | 6475.9123 | 1437930.2368 | 6223.4140 |
| Beam 121: End 2: 6: SLE_tot [Combination 3] | 9983.2110 | 2297571.9722 | 10079.0526 |
| Beam 121: End 2: 7: SLU [Combination 4] | 14597.1524 | 3346326.1231 | 14658.6218 |
| Beam 122: End 1: 1: Pesi propri | 735.9993 | 845480.6602 | 2299.7935 |
| Beam 122: End 1: 2: Perm port | 355.4781 | 663030.0748 | 1555.8614 |
| Beam 122: End 1: 3: Variabile | 1421.9123 | 2652120.2993 | 6223.4455 |
| Beam 122: End 1: 4: SLE_g [Combination 1] | 1091.4774 | 1508510.7350 | 3855.6549 |
| Beam 122: End 1: 5: SLE_q [Combination 2] | 1421.9123 | 2652120.2993 | 6223.4455 |
| Beam 122: End 1: 6: SLE_tot [Combination 3] | 2513.3896 | 4160631.0343 | 10079.1004 |
| Beam 122: End 1: 7: SLU [Combination 4] | 3622.8846 | 6071850.4194 | 14658.6919 |
| Beam 122: End 2: 1: Pesi propri | 543.5625 | 1093395.7698 | 2299.7935 |
| Beam 122: End 2: 2: Perm port | 355.4781 | 800777.8244 | 1555.8614 |
| Beam 122: End 2: 3: Variabile | 1421.9123 | 3203111.2974 | 6223.4455 |
| Beam 122: End 2: 4: SLE_g [Combination 1] | 899.0406 | 1894173.5942 | 3855.6549 |
| Beam 122: End 2: 5: SLE_q [Combination 2] | 1421.9123 | 3203111.2974 | 6223.4455 |
| Beam 122: End 2: 6: SLE_tot [Combination 3] | 2320.9528 | 5097284.8917 | 10079.1004 |
| Beam 122: End 2: 7: SLU [Combination 4] | 3372.7168 | 7427248.1835 | 14658.6919 |
| Beam 123: End 1: 1: Pesi propri | 543.5625 | 1093395.7698 | 2299.7935 |
| Beam 123: End 1: 2: Perm port | 355.4781 | 800777.8244 | 1555.8614 |
| Beam 123: End 1: 3: Variabile | 1421.9123 | 3203111.2974 | 6223.4455 |
| Beam 123: End 1: 4: SLE_g [Combination 1] | 899.0406 | 1894173.5942 | 3855.6549 |
| Beam 123: End 1: 5: SLE_q [Combination 2] | 1421.9123 | 3203111.2974 | 6223.4455 |
| Beam 123: End 1: 6: SLE_tot [Combination 3] | 2320.9528 | 5097284.8917 | 10079.1004 |
| Beam 123: End 1: 7: SLU [Combination 4] | 3372.7168 | 7427248.1835 | 14658.6919 |
| Beam 123: End 2: 1: Pesi propri | 400.7868 | 1229145.9900 | 2299.7935 |
| Beam 123: End 2: 2: Perm port | 355.4781 | 902977.7676 | 1555.8614 |
| Beam 123: End 2: 3: Variabile | 1421.9123 | 3611911.0703 | 6223.4455 |
| Beam 123: End 2: 4: SLE_g [Combination 1] | 756.2649 | 2132123.7576 | 3855.6549 |
| Beam 123: End 2: 5: SLE_q [Combination 2] | 1421.9123 | 3611911.0703 | 6223.4455 |
| Beam 123: End 2: 6: SLE_tot [Combination 3] | 2178.1771 | 5744034.8278 | 10079.1004 |
| Beam 123: End 2: 7: SLU [Combination 4] | 3187.1084 | 8370223.0437 | 14658.6919 |
| Beam 124: End 1: 1: Pesi propri | 400.7868 | 1229145.9900 | 2299.7935 |
| Beam 124: End 1: 2: Perm port | 355.4781 | 902977.7676 | 1555.8614 |
| Beam 124: End 1: 3: Variabile | 1421.9123 | 3611911.0703 | 6223.4455 |
| Beam 124: End 1: 4: SLE_g [Combination 1] | 756.2649 | 2132123.7576 | 3855.6549 |
| Beam 124: End 1: 5: SLE_q [Combination 2] | 1421.9123 | 3611911.0703 | 6223.4455 |
| Beam 124: End 1: 6: SLE_tot [Combination 3] | 2178.1771 | 5744034.8278 | 10079.1004 |
| Beam 124: End 1: 7: SLU [Combination 4] | 3187.1084 | 8370223.0437 | 14658.6919 |
| Beam 124: End 2: 1: Pesi propri | 258.0111 | 1323848.1981 | 2299.7935 |
| Beam 124: End 2: 2: Perm port | 355.4781 | 1005177.7108 | 1555.8614 |
| Beam 124: End 2: 3: Variabile | 1421.9123 | 4020710.8431 | 6223.4455 |
| Beam 124: End 2: 4: SLE_g [Combination 1] | 613.4892 | 2329025.9089 | 3855.6549 |
| Beam 124: End 2: 5: SLE_q [Combination 2] | 1421.9123 | 4020710.8431 | 6223.4455 |
| Beam 124: End 2: 6: SLE_tot [Combination 3] | 2035.4015 | 6349736.7520 | 10079.1004 |
| Beam 124: End 2: 7: SLU [Combination 4] | 3001.5000 | 9259835.4883 | 14658.6919 |
| Beam 125: End 1: 1: Pesi propri | -919.1408 | 1371124.7638 | 2299.8060 |
| Beam 125: End 1: 2: Perm port | -908.0219 | 1089609.5228 | 1555.8751 |
| Beam 125: End 1: 3: Variabile | -3632.0877 | 4358438.0911 | 6223.5003 |
| Beam 125: End 1: 4: SLE_g [Combination 1] | -1827.1627 | 2460734.2866 | 3855.6811 |
| Beam 125: End 1: 5: SLE_q [Combination 2] | -3632.0877 | 4358438.0911 | 6223.5003 |
| Beam 125: End 1: 6: SLE_tot [Combination 3] | -5459.2505 | 6819172.3776 | 10079.1814 |
| Beam 125: End 1: 7: SLU [Combination 4] | -8005.0476 | 9954533.6137 | 14658.8109 |
| Beam 125: End 2: 1: Pesi propri | -1086.7470 | 1032631.1914 | 2299.8060 |
| Beam 125: End 2: 2: Perm port | -908.0219 | 783152.1194 | 1555.8751 |
| Beam 125: End 2: 3: Variabile | -3632.0877 | 3132608.4775 | 6223.5003 |
| Beam 125: End 2: 4: SLE_g [Combination 1] | -1994.7690 | 1815783.3108 | 3855.6811 |
| Beam 125: End 2: 5: SLE_q [Combination 2] | -3632.0877 | 3132608.4775 | 6223.5003 |
| Beam 125: End 2: 6: SLE_tot [Combination 3] | -5626.8567 | 4948391.7883 | 10079.1814 |
| Beam 125: End 2: 7: SLU [Combination 4] | -8222.9357 | 7216061.4441 | 14658.8109 |
| Beam 126: End 1: 1: Pesi propri | -1086.7470 | 1032631.1914 | 2299.8060 |
| Beam 126: End 1: 2: Perm port | -908.0219 | 783152.1194 | 1555.8751 |
| Beam 126: End 1: 3: Variabile | -3632.0877 | 3132608.4775 | 6223.5003 |
| Beam 126: End 1: 4: SLE_g [Combination 1] | -1994.7690 | 1815783.3108 | 3855.6811 |
| Beam 126: End 1: 5: SLE_q [Combination 2] | -3632.0877 | 3132608.4775 | 6223.5003 |
| Beam 126: End 1: 6: SLE_tot [Combination 3] | -5626.8567 | 4948391.7883 | 10079.1814 |
| Beam 126: End 1: 7: SLU [Combination 4] | -8222.9357 | 7216061.4441 | 14658.8109 |
| Beam 126: End 2: 1: Pesi propri | -1229.5227 | 699667.4105 | 2299.8060 |

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| Beam 126: End 2: 2: Perm port | -908.0219 | 522095.8128 | 1555.8751 | |
| Beam 126: End 2: 3: Variabile | -3632.0877 | 2088383.2511 | 6223.5003 | |
| Beam 126: End 2: 4: SLE_g [Combination 1] | -2137.5447 | 1221763.2233 | 3855.6811 | |
| Beam 126: End 2: 5: SLE_q [Combination 2] | -3632.0877 | 2088383.2511 | 6223.5003 | |
| Beam 126: End 2: 6: SLE_tot [Combination 3] | -5769.6324 | 3310146.4744 | 10079.1814 | |
| Beam 126: End 2: 7: SLU [Combination 4] | -8408.5441 | 4825286.2295 | 14658.8109 | |
| Beam 127: End 1: 1: Pesi propri | -1229.5227 | 699667.4105 | 2299.8060 | |
| Beam 127: End 1: 2: Perm port | -908.0219 | 522095.8128 | 1555.8751 | |
| Beam 127: End 1: 3: Variabile | -3632.0877 | 2088383.2511 | 6223.5003 | |
| Beam 127: End 1: 4: SLE_g [Combination 1] | -2137.5447 | 1221763.2233 | 3855.6811 | |
| Beam 127: End 1: 5: SLE_q [Combination 2] | -3632.0877 | 2088383.2511 | 6223.5003 | |
| Beam 127: End 1: 6: SLE_tot [Combination 3] | -5769.6324 | 3310146.4744 | 10079.1814 | |
| Beam 127: End 1: 7: SLU [Combination 4] | -8408.5441 | 4825286.2295 | 14658.8109 | |
| Beam 127: End 2: 1: Pesi propri | -1372.2984 | 325655.6176 | 2299.8060 | |
| Beam 127: End 2: 2: Perm port | -908.0219 | 261039.5062 | 1555.8751 | |
| Beam 127: End 2: 3: Variabile | -3632.0877 | 1044158.0247 | 6223.5003 | |
| Beam 127: End 2: 4: SLE_g [Combination 1] | -2280.3204 | 586695.1238 | 3855.6811 | |
| Beam 127: End 2: 5: SLE_q [Combination 2] | -3632.0877 | 1044158.0247 | 6223.5003 | |
| Beam 127: End 2: 6: SLE_tot [Combination 3] | -5912.4081 | 1630853.1485 | 10079.1814 | |
| Beam 127: End 2: 7: SLU [Combination 4] | -8594.1525 | 2381148.5993 | 14658.8109 | |
| Beam 128: End 1: 1: Pesi propri | -1205.2560 | -22332.4923 | 0.0038 | |
| Beam 128: End 1: 2: Perm port | -918.7500 | 17.2400 | 0.0096 | |
| Beam 128: End 1: 3: Variabile | -3675.0000 | 68.9599 | 0.0384 | |
| Beam 128: End 1: 4: SLE_g [Combination 1] | -2124.0060 | -22315.2523 | 0.0134 | |
| Beam 128: End 1: 5: SLE_q [Combination 2] | -3675.0000 | 68.9599 | 0.0384 | |
| Beam 128: End 1: 6: SLE_tot [Combination 3] | -5799.0060 | -22246.2924 | 0.0518 | |
| Beam 128: End 1: 7: SLU [Combination 4] | -8457.4578 | -28902.9402 | 0.0769 | |
| Beam 128: End 2: 1: Pesi propri | -1348.0317 | -389367.6083 | 0.0038 | |
| Beam 128: End 2: 2: Perm port | -918.7500 | -264123.3846 | 0.0096 | |
| Beam 128: End 2: 3: Variabile | -3675.0000 | -1056493.5383 | 0.0384 | |
| Beam 128: End 2: 4: SLE_g [Combination 1] | -2266.7817 | -653490.9929 | 0.0134 | |
| Beam 128: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -1056493.5383 | 0.0384 | |
| Beam 128: End 2: 6: SLE_tot [Combination 3] | -5941.7817 | -1709984.5312 | 0.0518 | |
| Beam 128: End 2: 7: SLU [Combination 4] | -8643.0662 | -2487103.2751 | 0.0769 | |
| Beam 129: End 1: 1: Pesi propri | -1348.0317 | -389367.6083 | 0.0038 | |
| Beam 129: End 1: 2: Perm port | -918.7500 | -264123.3846 | 0.0096 | |
| Beam 129: End 1: 3: Variabile | -3675.0000 | -1056493.5383 | 0.0384 | |
| Beam 129: End 1: 4: SLE_g [Combination 1] | -2266.7817 | -653490.9929 | 0.0134 | |
| Beam 129: End 1: 5: SLE_q [Combination 2] | -3675.0000 | -1056493.5383 | 0.0384 | |
| Beam 129: End 1: 6: SLE_tot [Combination 3] | -5941.7817 | -1709984.5312 | 0.0518 | |
| Beam 129: End 1: 7: SLU [Combination 4] | -8643.0662 | -2487103.2751 | 0.0769 | |
| Beam 129: End 2: 1: Pesi propri | -1490.8074 | -797450.7363 | 0.0038 | |
| Beam 129: End 2: 2: Perm port | -918.7500 | -528264.0091 | 0.0096 | |
| Beam 129: End 2: 3: Variabile | -3675.0000 | -2113056.0366 | 0.0384 | |
| Beam 129: End 2: 4: SLE_g [Combination 1] | -2409.5574 | -1325714.7454 | 0.0134 | |
| Beam 129: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -2113056.0366 | 0.0384 | |
| Beam 129: End 2: 6: SLE_tot [Combination 3] | -6084.5574 | -3438770.7820 | 0.0518 | |
| Beam 129: End 2: 7: SLU [Combination 4] | -8828.6746 | -4998666.0257 | 0.0769 | |
| Beam 130: End 1: 1: Pesi propri | -1490.8074 | -797450.7363 | 0.0038 | |
| Beam 130: End 1: 2: Perm port | -918.7500 | -528264.0091 | 0.0096 | |
| Beam 130: End 1: 3: Variabile | -3675.0000 | -2113056.0366 | 0.0384 | |
| Beam 130: End 1: 4: SLE_g [Combination 1] | -2409.5574 | -1325714.7454 | 0.0134 | |
| Beam 130: End 1: 5: SLE_q [Combination 2] | -3675.0000 | -2113056.0366 | 0.0384 | |
| Beam 130: End 1: 6: SLE_tot [Combination 3] | -6084.5574 | -3438770.7820 | 0.0518 | |
| Beam 130: End 1: 7: SLU [Combination 4] | -8828.6746 | -4998666.0257 | 0.0769 | |
| Beam 130: End 2: 1: Pesi propri | -1633.5831 | -1246581.8763 | 0.0038 | |
| Beam 130: End 2: 2: Perm port | -918.7500 | -792404.6337 | 0.0096 | |
| Beam 130: End 2: 3: Variabile | -3675.0000 | -3169618.5348 | 0.0384 | |
| Beam 130: End 2: 4: SLE_g [Combination 1] | -2552.3331 | -2038986.5100 | 0.0134 | |
| Beam 130: End 2: 5: SLE_q [Combination 2] | -3675.0000 | -3169618.5348 | 0.0384 | |
| Beam 130: End 2: 6: SLE_tot [Combination 3] | -6227.3331 | -5208605.0448 | 0.0518 | |
| Beam 130: End 2: 7: SLU [Combination 4] | -9014.2830 | -7563591.1920 | 0.0769 | |
| Beam 131: End 1: 1: Pesi propri | 1897.6007 | -1736746.0148 | 2390.2377 | |
| Beam 131: End 1: 2: Perm port | 1112.3040 | -1056528.0115 | 1565.2716 | |
| Beam 131: End 1: 3: Variabile | 4449.2160 | -4226112.0459 | 6261.0866 | |
| Beam 131: End 1: 4: SLE_g [Combination 1] | 3009.9047 | -2793274.0263 | 3955.5094 | |
| Beam 131: End 1: 5: SLE_q [Combination 2] | 4449.2160 | -4226112.0459 | 6261.0866 | |
| Beam 131: End 1: 6: SLE_tot [Combination 3] | 7459.1207 | -7019386.0722 | 10216.5960 | |
| Beam 131: End 1: 7: SLU [Combination 4] | 10809.1609 | -10181729.9053 | 14846.8464 | |
| Beam 131: End 2: 1: Pesi propri | 1748.6174 | -1189813.2898 | 2390.2377 | |
| Beam 131: End 2: 2: Perm port | 1112.3040 | -722836.8145 | 1565.2716 | |
| Beam 131: End 2: 3: Variabile | 4449.2160 | -2891347.2578 | 6261.0866 | |
| Beam 131: End 2: 4: SLE_g [Combination 1] | 2860.9214 | -1912650.1043 | 3955.5094 | |
| Beam 131: End 2: 5: SLE_q [Combination 2] | 4449.2160 | -2891347.2578 | 6261.0866 | |
| Beam 131: End 2: 6: SLE_tot [Combination 3] | 7310.1374 | -4803997.3621 | 10216.5960 | |
| Beam 131: End 2: 7: SLU [Combination 4] | 10615.4826 | -6968033.3853 | 14846.8464 | |
| Beam 132: End 1: 1: Pesi propri | 1748.6174 | -1189813.2898 | 2390.2377 | |
| Beam 132: End 1: 2: Perm port | 1112.3040 | -722836.8145 | 1565.2716 | |
| Beam 132: End 1: 3: Variabile | 4449.2160 | -2891347.2578 | 6261.0866 | |

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|---|-------------|---------------|------------|
| Beam 132: End 1: 4: SLE_g [Combination 1] | 2860.9214 | -1912650.1043 | 3955.5094 |
| Beam 132: End 1: 5: SLE_q [Combination 2] | 4449.2160 | -2891347.2578 | 6261.0866 |
| Beam 132: End 1: 6: SLE_tot [Combination 3] | 7310.1374 | -4803997.3621 | 10216.5960 |
| Beam 132: End 1: 7: SLU [Combination 4] | 10615.4826 | -6968033.3853 | 14846.8464 |
| Beam 132: End 2: 1: Pesi propri | 1599.6341 | -687575.5647 | 2390.2377 |
| Beam 132: End 2: 2: Perm port | 1112.3040 | -389145.6175 | 1565.2716 |
| Beam 132: End 2: 3: Variabile | 4449.2160 | -1556582.4698 | 6261.0866 |
| Beam 132: End 2: 4: SLE_g [Combination 1] | 2711.9381 | -1076721.1822 | 3955.5094 |
| Beam 132: End 2: 5: SLE_q [Combination 2] | 4449.2160 | -1556582.4698 | 6261.0866 |
| Beam 132: End 2: 6: SLE_tot [Combination 3] | 7161.1540 | -2633303.6520 | 10216.5960 |
| Beam 132: End 2: 7: SLU [Combination 4] | 10421.8042 | -3812440.3650 | 14846.8464 |
| Beam 133: End 1: 1: Pesi propri | 1599.6341 | -687575.5647 | 2390.2377 |
| Beam 133: End 1: 2: Perm port | 1112.3040 | -389145.6175 | 1565.2716 |
| Beam 133: End 1: 3: Variabile | 4449.2160 | -1556582.4698 | 6261.0866 |
| Beam 133: End 1: 4: SLE_g [Combination 1] | 2711.9381 | -1076721.1822 | 3955.5094 |
| Beam 133: End 1: 5: SLE_q [Combination 2] | 4449.2160 | -1556582.4698 | 6261.0866 |
| Beam 133: End 1: 6: SLE_tot [Combination 3] | 7161.1540 | -2633303.6520 | 10216.5960 |
| Beam 133: End 1: 7: SLU [Combination 4] | 10421.8042 | -3812440.3650 | 14846.8464 |
| Beam 133: End 2: 1: Pesi propri | 1450.6508 | -230032.8395 | 2390.2377 |
| Beam 133: End 2: 2: Perm port | 1112.3040 | -55454.4204 | 1565.2716 |
| Beam 133: End 2: 3: Variabile | 4449.2160 | -221817.6818 | 6261.0866 |
| Beam 133: End 2: 4: SLE_g [Combination 1] | 2562.9547 | -285487.2599 | 3955.5094 |
| Beam 133: End 2: 5: SLE_q [Combination 2] | 4449.2160 | -221817.6818 | 6261.0866 |
| Beam 133: End 2: 6: SLE_tot [Combination 3] | 7012.1707 | -507304.9417 | 10216.5960 |
| Beam 133: End 2: 7: SLU [Combination 4] | 10228.1259 | -714950.8446 | 14846.8464 |
| Beam 134: End 1: 1: Pesi propri | 353.9561 | 182820.6229 | 2390.2462 |
| Beam 134: End 1: 2: Perm port | -18.1960 | 278243.0009 | 1565.2865 |
| Beam 134: End 1: 3: Variabile | -72.7840 | 1112972.0036 | 6261.1461 |
| Beam 134: End 1: 4: SLE_g [Combination 1] | 335.7601 | 461063.6238 | 3955.5327 |
| Beam 134: End 1: 5: SLE_q [Combination 2] | -72.7840 | 1112972.0036 | 6261.1461 |
| Beam 134: End 1: 6: SLE_tot [Combination 3] | 262.9760 | 1574035.6274 | 10216.6788 |
| Beam 134: End 1: 7: SLU [Combination 4] | 323.6728 | 2324489.3165 | 14846.9689 |
| Beam 134: End 2: 1: Pesi propri | 204.9727 | 266659.9454 | 2390.2462 |
| Beam 134: End 2: 2: Perm port | -18.1960 | 272784.1975 | 1565.2865 |
| Beam 134: End 2: 3: Variabile | -72.7840 | 1091136.7898 | 6261.1461 |
| Beam 134: End 2: 4: SLE_g [Combination 1] | 186.7767 | 539444.1429 | 3955.5327 |
| Beam 134: End 2: 5: SLE_q [Combination 2] | -72.7840 | 1091136.7898 | 6261.1461 |
| Beam 134: End 2: 6: SLE_tot [Combination 3] | 113.9927 | 1630580.9327 | 10216.6788 |
| Beam 134: End 2: 7: SLU [Combination 4] | 129.9945 | 2392539.4100 | 14846.9689 |
| Beam 135: End 1: 1: Pesi propri | 204.9727 | 266659.9454 | 2390.2462 |
| Beam 135: End 1: 2: Perm port | -18.1960 | 272784.1975 | 1565.2865 |
| Beam 135: End 1: 3: Variabile | -72.7840 | 1091136.7898 | 6261.1461 |
| Beam 135: End 1: 4: SLE_g [Combination 1] | 186.7767 | 539444.1429 | 3955.5327 |
| Beam 135: End 1: 5: SLE_q [Combination 2] | -72.7840 | 1091136.7898 | 6261.1461 |
| Beam 135: End 1: 6: SLE_tot [Combination 3] | 113.9927 | 1630580.9327 | 10216.6788 |
| Beam 135: End 1: 7: SLU [Combination 4] | 129.9945 | 2392539.4100 | 14846.9689 |
| Beam 135: End 2: 1: Pesi propri | 55.9894 | 305804.2681 | 2390.2462 |
| Beam 135: End 2: 2: Perm port | -18.1960 | 267325.3940 | 1565.2865 |
| Beam 135: End 2: 3: Variabile | -72.7840 | 1069301.5761 | 6261.1461 |
| Beam 135: End 2: 4: SLE_g [Combination 1] | 37.7934 | 573129.6621 | 3955.5327 |
| Beam 135: End 2: 5: SLE_q [Combination 2] | -72.7840 | 1069301.5761 | 6261.1461 |
| Beam 135: End 2: 6: SLE_tot [Combination 3] | -34.9906 | 1642431.2382 | 10216.6788 |
| Beam 135: End 2: 7: SLU [Combination 4] | -63.6839 | 2402486.0037 | 14846.9689 |
| Beam 136: End 1: 1: Pesi propri | 55.9894 | 305804.2681 | 2390.2462 |
| Beam 136: End 1: 2: Perm port | -18.1960 | 267325.3940 | 1565.2865 |
| Beam 136: End 1: 3: Variabile | -72.7840 | 1069301.5761 | 6261.1461 |
| Beam 136: End 1: 4: SLE_g [Combination 1] | 37.7934 | 573129.6621 | 3955.5327 |
| Beam 136: End 1: 5: SLE_q [Combination 2] | -72.7840 | 1069301.5761 | 6261.1461 |
| Beam 136: End 1: 6: SLE_tot [Combination 3] | -34.9906 | 1642431.2382 | 10216.6788 |
| Beam 136: End 1: 7: SLU [Combination 4] | -63.6839 | 2402486.0037 | 14846.9689 |
| Beam 136: End 2: 1: Pesi propri | -92.9939 | 300253.5909 | 2390.2462 |
| Beam 136: End 2: 2: Perm port | -18.1960 | 261866.5906 | 1565.2865 |
| Beam 136: End 2: 3: Variabile | -72.7840 | 1047466.3623 | 6261.1461 |
| Beam 136: End 2: 4: SLE_g [Combination 1] | -111.1899 | 562120.1815 | 3955.5327 |
| Beam 136: End 2: 5: SLE_q [Combination 2] | -72.7840 | 1047466.3623 | 6261.1461 |
| Beam 136: End 2: 6: SLE_tot [Combination 3] | -183.9740 | 1609586.5438 | 10216.6788 |
| Beam 136: End 2: 7: SLU [Combination 4] | -257.3622 | 2354329.0976 | 14846.9689 |
| Beam 137: End 1: 1: Pesi propri | -1189.6886 | 249999.5920 | 2390.2551 |
| Beam 137: End 1: 2: Perm port | -1148.6960 | 256397.3719 | 1565.3010 |
| Beam 137: End 1: 3: Variabile | -4594.7840 | 1025589.4876 | 6261.2038 |
| Beam 137: End 1: 4: SLE_g [Combination 1] | -2338.3846 | 506396.9639 | 3955.5560 |
| Beam 137: End 1: 5: SLE_q [Combination 2] | -4594.7840 | 1025589.4876 | 6261.2038 |
| Beam 137: End 1: 6: SLE_tot [Combination 3] | -6933.1687 | 1531986.4515 | 10216.7599 |
| Beam 137: End 1: 7: SLU [Combination 4] | -10161.8153 | 2247979.7589 | 14847.0888 |
| Beam 137: End 2: 1: Pesi propri | -1431.7865 | -388984.9666 | 2390.2551 |
| Beam 137: End 2: 2: Perm port | -1148.6960 | -303591.9338 | 1565.3010 |
| Beam 137: End 2: 3: Variabile | -4594.7840 | -1214367.7352 | 6261.2038 |
| Beam 137: End 2: 4: SLE_g [Combination 1] | -2580.4825 | -692576.9004 | 3955.5560 |
| Beam 137: End 2: 5: SLE_q [Combination 2] | -4594.7840 | -1214367.7352 | 6261.2038 |

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| Beam 137: End 2: 6: SLE_tot [Combination 3] | -7175.2666 | -1906944.6356 | 10216.7599 |
| Beam 137: End 2: 7: SLU [Combination 4] | -10476.5426 | -2782619.9601 | 14847.0888 |
| Beam 138: End 1: 1: Pesi propri | -1431.7865 | -388984.9666 | 2390.2551 |
| Beam 138: End 1: 2: Perm port | -1148.6960 | -303591.9338 | 1565.3010 |
| Beam 138: End 1: 3: Variabile | -4594.7840 | -1214367.7352 | 6261.2038 |
| Beam 138: End 1: 4: SLE_g [Combination 1] | -2580.4825 | -692576.9004 | 3955.5560 |
| Beam 138: End 1: 5: SLE_q [Combination 2] | -4594.7840 | -1214367.7352 | 6261.2038 |
| Beam 138: End 1: 6: SLE_tot [Combination 3] | -7175.2666 | -1906944.6356 | 10216.7599 |
| Beam 138: End 1: 7: SLU [Combination 4] | -10476.5426 | -2782619.9601 | 14847.0888 |
| Beam 138: End 2: 1: Pesi propri | -1574.5622 | -821147.5954 | 2390.2551 |
| Beam 138: End 2: 2: Perm port | -1148.6960 | -633842.0372 | 1565.3010 |
| Beam 138: End 2: 3: Variabile | -4594.7840 | -2535368.1487 | 6261.2038 |
| Beam 138: End 2: 4: SLE_g [Combination 1] | -2723.2582 | -1454989.6326 | 3955.5560 |
| Beam 138: End 2: 5: SLE_q [Combination 2] | -4594.7840 | -2535368.1487 | 6261.2038 |
| Beam 138: End 2: 6: SLE_tot [Combination 3] | -7318.0423 | -3990357.7813 | 10216.7599 |
| Beam 138: End 2: 7: SLU [Combination 4] | -10662.1510 | -5821307.1529 | 14847.0888 |
| Beam 139: End 1: 1: Pesi propri | -1574.5622 | -821147.5954 | 2390.2551 |
| Beam 139: End 1: 2: Perm port | -1148.6960 | -633842.0372 | 1565.3010 |
| Beam 139: End 1: 3: Variabile | -4594.7840 | -2535368.1487 | 6261.2038 |
| Beam 139: End 1: 4: SLE_g [Combination 1] | -2723.2582 | -1454989.6326 | 3955.5560 |
| Beam 139: End 1: 5: SLE_q [Combination 2] | -4594.7840 | -2535368.1487 | 6261.2038 |
| Beam 139: End 1: 6: SLE_tot [Combination 3] | -7318.0423 | -3990357.7813 | 10216.7599 |
| Beam 139: End 1: 7: SLU [Combination 4] | -10662.1510 | -5821307.1529 | 14847.0888 |
| Beam 139: End 2: 1: Pesi propri | -1717.3379 | -1294358.2363 | 2390.2551 |
| Beam 139: End 2: 2: Perm port | -1148.6960 | -964092.1405 | 1565.3010 |
| Beam 139: End 2: 3: Variabile | -4594.7840 | -3856368.5622 | 6261.2038 |
| Beam 139: End 2: 4: SLE_g [Combination 1] | -2866.0339 | -2258450.3768 | 3955.5560 |
| Beam 139: End 2: 5: SLE_q [Combination 2] | -4594.7840 | -3856368.5622 | 6261.2038 |
| Beam 139: End 2: 6: SLE_tot [Combination 3] | -7460.8180 | -6114818.9390 | 10216.7599 |
| Beam 139: End 2: 7: SLU [Combination 4] | -10847.7594 | -8913356.7612 | 14847.0888 |
| Beam 140: End 1: 1: Pesi propri | 2243.2242 | -1535186.3069 | 2264.4725 |
| Beam 140: End 1: 2: Perm port | 1442.1804 | -1122037.6136 | 1483.2869 |
| Beam 140: End 1: 3: Variabile | 5768.7215 | -4488150.4543 | 5933.1477 |
| Beam 140: End 1: 4: SLE_g [Combination 1] | 3685.4046 | -2657223.9205 | 3747.7595 |
| Beam 140: End 1: 5: SLE_q [Combination 2] | 5768.7215 | -4488150.4543 | 5933.1477 |
| Beam 140: End 1: 6: SLE_tot [Combination 3] | 9454.1260 | -7145374.3748 | 9680.9071 |
| Beam 140: End 1: 7: SLU [Combination 4] | 13732.5442 | -10411024.3008 | 14068.4662 |
| Beam 140: End 2: 1: Pesi propri | 2025.9568 | -601302.9613 | 2264.4725 |
| Beam 140: End 2: 2: Perm port | 1442.1804 | -491083.7036 | 1483.2869 |
| Beam 140: End 2: 3: Variabile | 5768.7215 | -1964334.8145 | 5933.1477 |
| Beam 140: End 2: 4: SLE_g [Combination 1] | 3468.1372 | -1092386.6649 | 3747.7595 |
| Beam 140: End 2: 5: SLE_q [Combination 2] | 5768.7215 | -1964334.8145 | 5933.1477 |
| Beam 140: End 2: 6: SLE_tot [Combination 3] | 9236.8587 | -3056721.4794 | 9680.9071 |
| Beam 140: End 2: 7: SLU [Combination 4] | 13450.0966 | -4464821.6268 | 14068.4662 |
| Beam 141: End 1: 1: Pesi propri | 2025.9568 | -601302.9613 | 2264.4725 |
| Beam 141: End 1: 2: Perm port | 1442.1804 | -491083.7036 | 1483.2869 |
| Beam 141: End 1: 3: Variabile | 5768.7215 | -1964334.8145 | 5933.1477 |
| Beam 141: End 1: 4: SLE_g [Combination 1] | 3468.1372 | -1092386.6649 | 3747.7595 |
| Beam 141: End 1: 5: SLE_q [Combination 2] | 5768.7215 | -1964334.8145 | 5933.1477 |
| Beam 141: End 1: 6: SLE_tot [Combination 3] | 9236.8587 | -3056721.4794 | 9680.9071 |
| Beam 141: End 1: 7: SLU [Combination 4] | 13450.0966 | -4464821.6268 | 14068.4662 |
| Beam 141: End 2: 1: Pesi propri | 1883.1811 | -39364.3804 | 2264.4725 |
| Beam 141: End 2: 2: Perm port | 1442.1804 | -76456.8485 | 1483.2869 |
| Beam 141: End 2: 3: Variabile | 5768.7215 | -305827.3940 | 5933.1477 |
| Beam 141: End 2: 4: SLE_g [Combination 1] | 3325.3615 | -115821.2289 | 3747.7595 |
| Beam 141: End 2: 5: SLE_q [Combination 2] | 5768.7215 | -305827.3940 | 5933.1477 |
| Beam 141: End 2: 6: SLE_tot [Combination 3] | 9094.0830 | -421648.6229 | 9680.9071 |
| Beam 141: End 2: 7: SLU [Combination 4] | 13264.4882 | -624600.0583 | 14068.4662 |
| Beam 142: End 1: 1: Pesi propri | 1883.1811 | -39364.3804 | 2264.4725 |
| Beam 142: End 1: 2: Perm port | 1442.1804 | -76456.8485 | 1483.2869 |
| Beam 142: End 1: 3: Variabile | 5768.7215 | -305827.3940 | 5933.1477 |
| Beam 142: End 1: 4: SLE_g [Combination 1] | 3325.3615 | -115821.2289 | 3747.7595 |
| Beam 142: End 1: 5: SLE_q [Combination 2] | 5768.7215 | -305827.3940 | 5933.1477 |
| Beam 142: End 1: 6: SLE_tot [Combination 3] | 9094.0830 | -421648.6229 | 9680.9071 |
| Beam 142: End 1: 7: SLU [Combination 4] | 13264.4882 | -624600.0583 | 14068.4662 |
| Beam 142: End 2: 1: Pesi propri | 1740.4054 | 481526.1885 | 2264.4725 |
| Beam 142: End 2: 2: Perm port | 1442.1804 | 338170.0066 | 1483.2869 |
| Beam 142: End 2: 3: Variabile | 5768.7215 | 1352680.0264 | 5933.1477 |
| Beam 142: End 2: 4: SLE_g [Combination 1] | 3182.5858 | 819696.1951 | 3747.7595 |
| Beam 142: End 2: 5: SLE_q [Combination 2] | 5768.7215 | 1352680.0264 | 5933.1477 |
| Beam 142: End 2: 6: SLE_tot [Combination 3] | 8951.3073 | 2172376.2215 | 9680.9071 |
| Beam 142: End 2: 7: SLU [Combination 4] | 13078.8798 | 3162259.0946 | 14068.4662 |
| Beam 143: End 1: 1: Pesi propri | 699.5795 | 799131.8720 | 2264.4641 |
| Beam 143: End 1: 2: Perm port | 311.6804 | 608589.6964 | 1483.2790 |
| Beam 143: End 1: 3: Variabile | 1246.7215 | 2434358.7855 | 5933.1161 |
| Beam 143: End 1: 4: SLE_g [Combination 1] | 1011.2599 | 1407721.5683 | 3747.7432 |
| Beam 143: End 1: 5: SLE_q [Combination 2] | 1246.7215 | 2434358.7855 | 5933.1161 |
| Beam 143: End 1: 6: SLE_tot [Combination 3] | 2257.9813 | 3842080.3538 | 9680.8593 |
| Beam 143: End 1: 7: SLU [Combination 4] | 3247.0561 | 5603294.1563 | 14068.3961 |

| | | | | |
|---|------------|--------------|--------------|------------|
| Beam 143: End 2: 1: Pesi propri | 507.1427 | 1032934.3017 | 2264.4641 | |
| Beam 143: End 2: 2: Perm port | 311.6804 | 729365.8379 | 1483.2790 | |
| Beam 143: End 2: 3: Variabile | 1246.7215 | 2917463.3517 | 5933.1161 | |
| Beam 143: End 2: 4: SLE_g [Combination 1] | | 818.8231 | 1762300.1396 | 3747.7432 |
| Beam 143: End 2: 5: SLE_q [Combination 2] | | 1246.7215 | 2917463.3517 | 5933.1161 |
| Beam 143: End 2: 6: SLE_tot [Combination 3] | | 2065.5445 | 4679763.4914 | 9680.8593 |
| Beam 143: End 2: 7: SLU [Combination 4] | | 2996.8883 | 6813058.3767 | 14068.3961 |
| Beam 144: End 1: 1: Pesi propri | 507.1427 | 1032934.3017 | 2264.4641 | |
| Beam 144: End 1: 2: Perm port | 311.6804 | 729365.8379 | 1483.2790 | |
| Beam 144: End 1: 3: Variabile | 1246.7215 | 2917463.3517 | 5933.1161 | |
| Beam 144: End 1: 4: SLE_g [Combination 1] | | 818.8231 | 1762300.1396 | 3747.7432 |
| Beam 144: End 1: 5: SLE_q [Combination 2] | | 1246.7215 | 2917463.3517 | 5933.1161 |
| Beam 144: End 1: 6: SLE_tot [Combination 3] | | 2065.5445 | 4679763.4914 | 9680.8593 |
| Beam 144: End 1: 7: SLU [Combination 4] | | 2996.8883 | 6813058.3767 | 14068.3961 |
| Beam 144: End 2: 1: Pesi propri | 364.3670 | 1158213.8238 | 2264.4641 | |
| Beam 144: End 2: 2: Perm port | 311.6804 | 818973.9430 | 1483.2790 | |
| Beam 144: End 2: 3: Variabile | 1246.7215 | 3275895.7719 | 5933.1161 | |
| Beam 144: End 2: 4: SLE_g [Combination 1] | | 676.0474 | 1977187.7668 | 3747.7432 |
| Beam 144: End 2: 5: SLE_q [Combination 2] | | 1246.7215 | 3275895.7719 | 5933.1161 |
| Beam 144: End 2: 6: SLE_tot [Combination 3] | | 1922.7688 | 5253083.5387 | 9680.8593 |
| Beam 144: End 2: 7: SLU [Combination 4] | | 2811.2799 | 7647982.5433 | 14068.3961 |
| Beam 145: End 1: 1: Pesi propri | 364.3670 | 1158213.8238 | 2264.4641 | |
| Beam 145: End 1: 2: Perm port | 311.6804 | 818973.9430 | 1483.2790 | |
| Beam 145: End 1: 3: Variabile | 1246.7215 | 3275895.7719 | 5933.1161 | |
| Beam 145: End 1: 4: SLE_g [Combination 1] | | 676.0474 | 1977187.7668 | 3747.7432 |
| Beam 145: End 1: 5: SLE_q [Combination 2] | | 1246.7215 | 3275895.7719 | 5933.1161 |
| Beam 145: End 1: 6: SLE_tot [Combination 3] | | 1922.7688 | 5253083.5387 | 9680.8593 |
| Beam 145: End 1: 7: SLU [Combination 4] | | 2811.2799 | 7647982.5433 | 14068.3961 |
| Beam 145: End 2: 1: Pesi propri | 221.5913 | 1242445.3339 | 2264.4641 | |
| Beam 145: End 2: 2: Perm port | 311.6804 | 908582.0480 | 1483.2790 | |
| Beam 145: End 2: 3: Variabile | 1246.7215 | 3634328.1920 | 5933.1161 | |
| Beam 145: End 2: 4: SLE_g [Combination 1] | | 533.2717 | 2151027.3819 | 3747.7432 |
| Beam 145: End 2: 5: SLE_q [Combination 2] | | 1246.7215 | 3634328.1920 | 5933.1161 |
| Beam 145: End 2: 6: SLE_tot [Combination 3] | | 1779.9931 | 5785355.5739 | 9680.8593 |
| Beam 145: End 2: 7: SLU [Combination 4] | | 2625.6715 | 8429544.2941 | 14068.3961 |
| Beam 146: End 1: 1: Pesi propri | -844.0652 | 1281062.3811 | 2264.4516 | |
| Beam 146: End 1: 2: Perm port | -818.8196 | 982600.3628 | 1483.2653 | |
| Beam 146: End 1: 3: Variabile | -3275.2785 | 3930401.4513 | 5933.0613 | |
| Beam 146: End 1: 4: SLE_g [Combination 1] | | -1662.8848 | 2263662.7440 | 3747.7170 |
| Beam 146: End 1: 5: SLE_q [Combination 2] | | -3275.2785 | 3930401.4513 | 5933.0613 |
| Beam 146: End 1: 6: SLE_tot [Combination 3] | | -4938.1633 | 6194064.1953 | 9680.7783 |
| Beam 146: End 1: 7: SLU [Combination 4] | | -7238.4320 | 9034883.8167 | 14068.2771 |
| Beam 146: End 2: 1: Pesi propri | -1011.6714 | 967906.8344 | 2264.4516 | |
| Beam 146: End 2: 2: Perm port | -818.8196 | 706248.7359 | 1483.2653 | |
| Beam 146: End 2: 3: Variabile | -3275.2785 | 2824994.9436 | 5933.0613 | |
| Beam 146: End 2: 4: SLE_g [Combination 1] | | -1830.4910 | 1674155.5703 | 3747.7170 |
| Beam 146: End 2: 5: SLE_q [Combination 2] | | -3275.2785 | 2824994.9436 | 5933.0613 |
| Beam 146: End 2: 6: SLE_tot [Combination 3] | | -5105.7696 | 4499150.5139 | 9680.7783 |
| Beam 146: End 2: 7: SLU [Combination 4] | | -7456.3201 | 6555144.4039 | 14068.2771 |
| Beam 147: End 1: 1: Pesi propri | -1011.6714 | 967906.8344 | 2264.4516 | |
| Beam 147: End 1: 2: Perm port | -818.8196 | 706248.7359 | 1483.2653 | |
| Beam 147: End 1: 3: Variabile | -3275.2785 | 2824994.9436 | 5933.0613 | |
| Beam 147: End 1: 4: SLE_g [Combination 1] | | -1830.4910 | 1674155.5703 | 3747.7170 |
| Beam 147: End 1: 5: SLE_q [Combination 2] | | -3275.2785 | 2824994.9436 | 5933.0613 |
| Beam 147: End 1: 6: SLE_tot [Combination 3] | | -5105.7696 | 4499150.5139 | 9680.7783 |
| Beam 147: End 1: 7: SLU [Combination 4] | | -7456.3201 | 6555144.4039 | 14068.2771 |
| Beam 147: End 2: 1: Pesi propri | -1154.4471 | 656527.2976 | 2264.4516 | |
| Beam 147: End 2: 2: Perm port | -818.8196 | 470838.0907 | 1483.2653 | |
| Beam 147: End 2: 3: Variabile | -3275.2785 | 1883352.3629 | 5933.0613 | |
| Beam 147: End 2: 4: SLE_g [Combination 1] | | -1973.2667 | 1127365.3883 | 3747.7170 |
| Beam 147: End 2: 5: SLE_q [Combination 2] | | -3275.2785 | 1883352.3629 | 5933.0613 |
| Beam 147: End 2: 6: SLE_tot [Combination 3] | | -5248.5453 | 3010717.7512 | 9680.7783 |
| Beam 147: End 2: 7: SLU [Combination 4] | | -7641.9285 | 4384771.1673 | 14068.2771 |
| Beam 148: End 1: 1: Pesi propri | -1154.4471 | 656527.2976 | 2264.4516 | |
| Beam 148: End 1: 2: Perm port | -818.8196 | 470838.0907 | 1483.2653 | |
| Beam 148: End 1: 3: Variabile | -3275.2785 | 1883352.3629 | 5933.0613 | |
| Beam 148: End 1: 4: SLE_g [Combination 1] | | -1973.2667 | 1127365.3883 | 3747.7170 |
| Beam 148: End 1: 5: SLE_q [Combination 2] | | -3275.2785 | 1883352.3629 | 5933.0613 |
| Beam 148: End 1: 6: SLE_tot [Combination 3] | | -5248.5453 | 3010717.7512 | 9680.7783 |
| Beam 148: End 1: 7: SLU [Combination 4] | | -7641.9285 | 4384771.1673 | 14068.2771 |
| Beam 148: End 2: 1: Pesi propri | -1297.2228 | 304099.7487 | 2264.4516 | |
| Beam 148: End 2: 2: Perm port | -818.8196 | 235427.4456 | 1483.2653 | |
| Beam 148: End 2: 3: Variabile | -3275.2785 | 941709.7823 | 5933.0613 | |
| Beam 148: End 2: 4: SLE_g [Combination 1] | | -2116.0424 | 539527.1943 | 3747.7170 |
| Beam 148: End 2: 5: SLE_q [Combination 2] | | -3275.2785 | 941709.7823 | 5933.0613 |
| Beam 148: End 2: 6: SLE_tot [Combination 3] | | -5391.3210 | 1481236.9766 | 9680.7783 |
| Beam 148: End 2: 7: SLU [Combination 4] | | -7827.5369 | 2161035.5151 | 14068.2771 |
| Beam 149: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 | |
| Beam 149: End 1: 2: Perm port | 91.8750 | -16078.1250 | 0.0000 | |

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|---|----------|-------------|--------------|--------|
| Beam 149: End 1: 3: Variabile | 367.5000 | -64312.5000 | 0.0000 | |
| Beam 149: End 1: 4: SLE_g [Combination 1] | | 197.5023 | -34562.8973 | 0.0000 |
| Beam 149: End 1: 5: SLE_q [Combination 2] | | 367.5000 | -64312.5000 | 0.0000 |
| Beam 149: End 1: 6: SLE_tot [Combination 3] | | 565.0023 | -98875.3973 | 0.0000 |
| Beam 149: End 1: 7: SLU [Combination 4] | | 826.3780 | -144616.1415 | 0.0000 |
| Beam 149: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 149: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 149: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 149: End 2: 4: SLE_g [Combination 1] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 149: End 2: 5: SLE_q [Combination 2] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 149: End 2: 6: SLE_tot [Combination 3] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 149: End 2: 7: SLU [Combination 4] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 150: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 | |
| Beam 150: End 1: 2: Perm port | 123.3750 | -21590.6250 | 0.0000 | |
| Beam 150: End 1: 3: Variabile | 493.5000 | -86362.5000 | 0.0000 | |
| Beam 150: End 1: 4: SLE_g [Combination 1] | | 229.0023 | -40075.3973 | 0.0000 |
| Beam 150: End 1: 5: SLE_q [Combination 2] | | 493.5000 | -86362.5000 | 0.0000 |
| Beam 150: End 1: 6: SLE_tot [Combination 3] | | 722.5023 | -126437.8973 | 0.0000 |
| Beam 150: End 1: 7: SLU [Combination 4] | | 1062.6280 | -185959.8915 | 0.0000 |
| Beam 150: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 150: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 150: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 150: End 2: 4: SLE_g [Combination 1] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 150: End 2: 5: SLE_q [Combination 2] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 150: End 2: 6: SLE_tot [Combination 3] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 150: End 2: 7: SLU [Combination 4] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 151: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 | |
| Beam 151: End 1: 2: Perm port | 126.0000 | -22050.0000 | 0.0000 | |
| Beam 151: End 1: 3: Variabile | 504.0000 | -88200.0000 | 0.0000 | |
| Beam 151: End 1: 4: SLE_g [Combination 1] | | 231.6273 | -40534.7723 | 0.0000 |
| Beam 151: End 1: 5: SLE_q [Combination 2] | | 504.0000 | -88200.0000 | 0.0000 |
| Beam 151: End 1: 6: SLE_tot [Combination 3] | | 735.6273 | -128734.7723 | 0.0000 |
| Beam 151: End 1: 7: SLU [Combination 4] | | 1082.3155 | -189405.2040 | 0.0000 |
| Beam 151: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 151: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 151: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 151: End 2: 4: SLE_g [Combination 1] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 151: End 2: 5: SLE_q [Combination 2] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 151: End 2: 6: SLE_tot [Combination 3] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 151: End 2: 7: SLU [Combination 4] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 152: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 | |
| Beam 152: End 1: 2: Perm port | 126.0000 | -22050.0000 | 0.0000 | |
| Beam 152: End 1: 3: Variabile | 504.0000 | -88200.0000 | 0.0000 | |
| Beam 152: End 1: 4: SLE_g [Combination 1] | | 231.6273 | -40534.7723 | 0.0000 |
| Beam 152: End 1: 5: SLE_q [Combination 2] | | 504.0000 | -88200.0000 | 0.0000 |
| Beam 152: End 1: 6: SLE_tot [Combination 3] | | 735.6273 | -128734.7723 | 0.0000 |
| Beam 152: End 1: 7: SLU [Combination 4] | | 1082.3155 | -189405.2040 | 0.0000 |
| Beam 152: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 152: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 152: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 152: End 2: 4: SLE_g [Combination 1] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 152: End 2: 5: SLE_q [Combination 2] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 152: End 2: 6: SLE_tot [Combination 3] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 152: End 2: 7: SLU [Combination 4] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 153: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 | |
| Beam 153: End 1: 2: Perm port | 126.0000 | -22050.0000 | 0.0000 | |
| Beam 153: End 1: 3: Variabile | 504.0000 | -88200.0000 | 0.0000 | |
| Beam 153: End 1: 4: SLE_g [Combination 1] | | 231.6273 | -40534.7723 | 0.0000 |
| Beam 153: End 1: 5: SLE_q [Combination 2] | | 504.0000 | -88200.0000 | 0.0000 |
| Beam 153: End 1: 6: SLE_tot [Combination 3] | | 735.6273 | -128734.7723 | 0.0000 |
| Beam 153: End 1: 7: SLU [Combination 4] | | 1082.3155 | -189405.2040 | 0.0000 |
| Beam 153: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 153: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 153: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 153: End 2: 4: SLE_g [Combination 1] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 153: End 2: 5: SLE_q [Combination 2] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 153: End 2: 6: SLE_tot [Combination 3] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 153: End 2: 7: SLU [Combination 4] | | 0.0000 | 0.0000 | 0.0000 |
| Beam 154: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 | |
| Beam 154: End 1: 2: Perm port | 126.0000 | -22050.0000 | 0.0000 | |
| Beam 154: End 1: 3: Variabile | 504.0000 | -88200.0000 | 0.0000 | |
| Beam 154: End 1: 4: SLE_g [Combination 1] | | 231.6273 | -40534.7723 | 0.0000 |
| Beam 154: End 1: 5: SLE_q [Combination 2] | | 504.0000 | -88200.0000 | 0.0000 |
| Beam 154: End 1: 6: SLE_tot [Combination 3] | | 735.6273 | -128734.7723 | 0.0000 |
| Beam 154: End 1: 7: SLU [Combination 4] | | 1082.3155 | -189405.2040 | 0.0000 |
| Beam 154: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 | |
| Beam 154: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 | |
| Beam 154: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 | |
| Beam 154: End 2: 4: SLE_g [Combination 1] | | 0.0000 | 0.0000 | 0.0000 |

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|---|-----------|--------------|--------|
| Beam 154: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 |
| Beam 154: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 |
| Beam 154: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 |
| Beam 155: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 |
| Beam 155: End 1: 2: Perm port | 126.0000 | -22050.0000 | 0.0000 |
| Beam 155: End 1: 3: Variabile | 504.0000 | -88200.0000 | 0.0000 |
| Beam 155: End 1: 4: SLE_g [Combination 1] | 231.6273 | -40534.7723 | 0.0000 |
| Beam 155: End 1: 5: SLE_q [Combination 2] | 504.0000 | -88200.0000 | 0.0000 |
| Beam 155: End 1: 6: SLE_tot [Combination 3] | 735.6273 | -128734.7723 | 0.0000 |
| Beam 155: End 1: 7: SLU [Combination 4] | 1082.3155 | -189405.2040 | 0.0000 |
| Beam 155: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 |
| Beam 155: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 |
| Beam 155: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 |
| Beam 155: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 |
| Beam 155: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 |
| Beam 155: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 |
| Beam 155: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 |
| Beam 156: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 |
| Beam 156: End 1: 2: Perm port | 126.0000 | -22050.0000 | 0.0000 |
| Beam 156: End 1: 3: Variabile | 504.0000 | -88200.0000 | 0.0000 |
| Beam 156: End 1: 4: SLE_g [Combination 1] | 231.6273 | -40534.7723 | 0.0000 |
| Beam 156: End 1: 5: SLE_q [Combination 2] | 504.0000 | -88200.0000 | 0.0000 |
| Beam 156: End 1: 6: SLE_tot [Combination 3] | 735.6273 | -128734.7723 | 0.0000 |
| Beam 156: End 1: 7: SLU [Combination 4] | 1082.3155 | -189405.2040 | 0.0000 |
| Beam 156: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 |
| Beam 156: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 |
| Beam 156: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 |
| Beam 156: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 |
| Beam 156: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 |
| Beam 156: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 |
| Beam 156: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 |
| Beam 157: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 |
| Beam 157: End 1: 2: Perm port | 91.8750 | -16078.1250 | 0.0000 |
| Beam 157: End 1: 3: Variabile | 367.5000 | -64312.5000 | 0.0000 |
| Beam 157: End 1: 4: SLE_g [Combination 1] | 197.5023 | -34562.8973 | 0.0000 |
| Beam 157: End 1: 5: SLE_q [Combination 2] | 367.5000 | -64312.5000 | 0.0000 |
| Beam 157: End 1: 6: SLE_tot [Combination 3] | 565.0023 | -98875.3973 | 0.0000 |
| Beam 157: End 1: 7: SLU [Combination 4] | 826.3780 | -144616.1415 | 0.0000 |
| Beam 157: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 |
| Beam 157: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 |
| Beam 157: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 |
| Beam 157: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 |
| Beam 157: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 |
| Beam 157: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 |
| Beam 157: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 |
| Beam 158: End 1: 1: Pesi propri | 105.6273 | -18484.7723 | 0.0000 |
| Beam 158: End 1: 2: Perm port | 60.3750 | -10565.6250 | 0.0000 |
| Beam 158: End 1: 3: Variabile | 241.5000 | -42262.5000 | 0.0000 |
| Beam 158: End 1: 4: SLE_g [Combination 1] | 166.0023 | -29050.3973 | 0.0000 |
| Beam 158: End 1: 5: SLE_q [Combination 2] | 241.5000 | -42262.5000 | 0.0000 |
| Beam 158: End 1: 6: SLE_tot [Combination 3] | 407.5023 | -71312.8973 | 0.0000 |
| Beam 158: End 1: 7: SLU [Combination 4] | 590.1280 | -103272.3915 | 0.0000 |
| Beam 158: End 2: 1: Pesi propri | 0.0000 | 0.0000 | 0.0000 |
| Beam 158: End 2: 2: Perm port | 0.0000 | 0.0000 | 0.0000 |
| Beam 158: End 2: 3: Variabile | 0.0000 | 0.0000 | 0.0000 |
| Beam 158: End 2: 4: SLE_g [Combination 1] | 0.0000 | 0.0000 | 0.0000 |
| Beam 158: End 2: 5: SLE_q [Combination 2] | 0.0000 | 0.0000 | 0.0000 |
| Beam 158: End 2: 6: SLE_tot [Combination 3] | 0.0000 | 0.0000 | 0.0000 |
| Beam 158: End 2: 7: SLU [Combination 4] | 0.0000 | 0.0000 | 0.0000 |