

REGIONE MARCHE
PROVINCIA DI FERMO
COMUNE DI FERMO

IMPIANTO DI TRATTAMENTO ANAEROBICO DELLA FRAZIONE ORGANICA DEI RIFIUTI SOLIDI URBANI PER LA PRODUZIONE DI BIOMETANO

CIG: 9880245C18 – CUP: F62F18000070004

PROGETTO ESECUTIVO

NOME ELABORATO		CLASSE 10.12
BOX CARRI BOMBOLAI TABULATI DI CALCOLO		STRUTTURE BOX CARRI BOMBOLAI
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		FORMATO A4
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REV	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO

Committente	Progettista indicato	Mandataria
 CITTA' DI FERMO Settore IV e V Lavori Pubblici, Protezione Civile, Ambiente, Urbanistica, Patrimonio, Contratti e Appalti Via Mazzini 4 63900 – Fermo (FM) DOTT. Mauro Fortuna RUP	 Via Resuttana 360 90142 -PALERMO OWAC Engineering Company S.R.L. ING. Rocco Martello Direttore Tecnico UNI EN ISO 9001:2015 N. 30233/14/S UNI EN ISO 45001:2018 N. OHS-4849 UNI EN ISO 14001:2015 N. EMS-9477/S UNI/PDR 74 :2019 N. SGBIM-01/23 UNI/PdR 74:2019 N. 21042BIM	 Via del Cardoncello 22 70022 – Altamura (BA) EDILALTA S.R.L. DOTT. Angelantonio Disabato Socio
		Mandante  Via Bassa di Casalmoro 3 46041 – Asola (MN) ANAERGIA S.R.L. DOTT. Andrea Parisi Institore



01	B.BARONE	10/10/2024	C.BUTTICE'	11/10/2024	R.MARTELLO	11/10/2024
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REV	ESEGUITO	DATA	VERIFICATO	DATA	APPROVATO	DATA



TABULATI DI CALCOLO

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2023-07-199)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi5924

Descrizione	
Progetto	Impianto di trattamento anaerobico della F.O.R.S.U. per la produzione di Biometano. Stazionamento box carro bombolaio
Ubicazione	Comune di FERMO (Regione MARCHE) Località CONTRADA SAN BIAGIO Longitudine 13.716, Latitudine 43.160

In merito al punto 10.2 delle Norme Tecniche per le Costruzioni (*Affidabilità dei codici utilizzati*), si fa riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST” disponibile per il download sul sito: <https://www.2si.it/it/prodotti/affidabilita/>

1 INTERAZIONE E CONTENUTI DELLA RELAZIONE

1.1 PROGETTO

Il box di carimento dei carri bombolai è una struttura del tipo a pareti in calcestruzzo armato. la tipologia di calcestruzzo è C32/40, la classe di esposizione è XC 4 ed il copriferro è cm 5. Per questa struttura il copriferro dipende anche dal tipo di R cha nella relazione anticincendio è stato assegnato.

I pali di fondazione sorreggono la struttura del box carro bombolaio e sono di diametro cm60, profondità m 15. La qualità di calcestruzzo è C25/30 e la classe di esposizione è XC 2 copriferro 5cm.

In merito alla fondazione si è progettata come se fosse una fondazione mista, con riferimento ai §§6.4.3.3, 7.11.5.3.2, C7.11.5.3.2, ai pali viene affidato la capacità portante e la funzione di contenere i cedimenti, alla piastra ha il compito di assorbire lo scorrimento laterale e trasversale. Alla piastra viene assegnato un valore di k di winkler verticale pari a quello del limo che è pari a 0.6daN/cmc e per quello laterale 0.3daN/cmc.

Per i pali le costanti vengono calcolate in funzione agli strati. Nel calcolo della portanza dei pali si è posto pari a zero il calore della portanza laterale dei limi ai fini di un vantaggio di sicurezza.

Lo spessore delle pareti è 30 cm e del solaio di copertura è di cm 30, la piastra di fondazione ha uno spessore cm 50.

Contenuti della relazione:

RELAZIONE DI CALCOLO STRUTTURALE

- *Origine e Caratteristiche dei Codici di Calcolo*
- *Affidabilità dei codici utilizzati*
- *Validazione dei codici*
- *Tipo di analisi svolta*
- *Modalità di presentazione dei risultati*
- *Informazioni generali sull'elaborazione*
- *Giudizio motivato di accettabilità dei risultati*

STAMPA DEI DATI DI INGRESSO

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

EdilAlta

Anaergia
Fueling a Sustainable World

OWAC
ENGINEERING COMPANY

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 4 di 378

- *Normative prese a riferimento*
 - *Criteri adottati per le misure di sicurezza*
 - *Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconnessioni*
 - *Interazione tra terreno e struttura*
 - *Legami costitutivi adottati per la modellazione dei materiali e dei terreni*
 - *Schematizzazione delle azioni, condizioni e combinazioni di carico*
 - *Metodologie numeriche utilizzate per l'analisi strutturale*
 - *Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali*
- STAMPA DEI RISULTATI

Il Progettista:

SOMMARIO

1	INTESTAZIONE E CONTENUTI DELLA RELAZIONE	4
1.1	PROGETTO.....	4
2	RELAZIONE DI CALCOLO STRUTTURALE	8
2.1	PREMESSA	8
2.2	DESCRIZIONE GENERALE DELL'OPERA.....	8
2.3	QUADRO NORMATIVO DI RIFERIMENTO ADOTTATO	8
2.4	AZIONI DI PROGETTO SULLA COSTRUZIONE.....	9
2.5	MODELLO NUMERICO	9
2.5.1	<i>Tipo di analisi strutturale</i>	<i>9</i>
2.5.2	<i>Informazioni sul codice di calcolo</i>	<i>9</i>
2.5.3	<i>Affidabilità dei codici utilizzati</i>	<i>10</i>
2.6	MODELLAZIONE DELLE AZIONI	11
2.7	COMBINAZIONI E/O PERCORSI DI CARICO.....	11
2.8	VERIFICHE AGLI STATI LIMITE ULTIMI	12
2.9	VERIFICHE AGLI STATI LIMITE DI ESERCIZIO	12
3	NORMATIVA DI RIFERIMENTO	13
4	CARATTERISTICHE MATERIALI UTILIZZATI	17
4.1	LEGENDA TABELLA DATI MATERIALI.....	17
5	MODELLAZIONE DELLE SEZIONI.....	23
5.1	LEGENDA TABELLA DATI SEZIONI	23
6	MODELLAZIONE STRUTTURA: NODI	25
6.1	LEGENDA TABELLA DATI NODI.....	25
6.1.1	<i>TABELLA DATI NODI</i>	<i>25</i>
7	MODELLAZIONE STRUTTURA: ELEMENTI SHELL.....	34
7.1	LEGENDA TABELLA DATI SHELL.....	34
8	MODELLAZIONE DELLE AZIONI	58
8.1	LEGENDA TABELLA DATI AZIONI	58
9	SCHEMATIZZAZIONE DEI CASI DI CARICO	61
9.1	LEGENDA TABELLA CASI DI CARICO	61

10	DEFINIZIONE DELLE COMBINAZIONI.....	76
10.1	LEGENDA TABELLA COMBINAZIONI DI CARICO	76
11	AZIONE SISMICA	92
11.1	VALUTAZIONE DELL' AZIONE SISMICA	92
11.1.1	<i>Parametri della struttura</i>	92
12	RISULTATI ANALISI SISMICHE	104
12.1	LEGENDA TABELLA ANALISI SISMICHE.....	104
13	RISULTATI NODALI	116
13.1	LEGENDA RISULTATI NODALI.....	116
14	RISULTATI OPERE DI FONDAZIONE	134
14.1	LEGENDA RISULTATI OPERE DI FONDAZIONE	134
15	RISULTATI ELEMENTI TIPO SHELL	151
15.1	LEGENDA RISULTATI ELEMENTI TIPO SHELL	151
16	EVERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.	197
16.1	LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.	197
16.2	PROGETTAZIONE DELLE FONDAZIONI	201
17	STATI LIMITE D' ESERCIZIO	254
17.1	LEGENDA TABELLA STATI LIMITE D' ESERCIZIO.....	254
18	STATO LIMITE D' ESERCIZIO: SLD DANNO SISMICO	264
18.1	LEGENDA TABELLA STATI LIMITE DI DANNO (VERIFICHE RES)	264
18.2	SIMBOLOGIA ADOTTATA NELLE TABELLE DI VERIFICA	265
19	VERIFICHE PALI DI FONDAZIONE	277

2 RELAZIONE DI CALCOLO STRUTTURALE

2.1 PREMESSA

La presente relazione di calcolo strutturale, in conformità al §10.1 del DM 17/01/18, è comprensiva di una descrizione generale dell'opera e dei criteri generali di analisi e verifica. Segue inoltre le indicazioni fornite al §10.2 del DM stesso per quanto concerne analisi e verifiche svolte con l'ausilio di codici di calcolo.

Nella presente parte sono riportati i principali elementi di inquadramento del progetto esecutivo riguardante le strutture, in relazione agli strumenti urbanistici, al progetto architettonico, al progetto delle componenti tecnologiche in generale ed alle prestazioni attese dalla struttura.

La struttura è a servizio dei processi industriali dell'area

2.2 DESCRIZIONE GENERALE DELL'OPERA

La struttura è del tipo a parete, con fondazione su pali di diametro cm 60 e profondi m 15.

Descrizione generale dell'opera	
Fabbricato ad uso	A servizio dei processi industriali
Ubicazione	Comune di FERMO (Regione MARCHE)
	Località CONTRADA SAN BIAGIO
	Longitudine 13.6769, Latitudine 43,1224
Numero di piani	Fuori terra 0
	Interrati 0
	le dimensioni dell'opera in pianta sono racchiuse in un rettangolo di m 10.00 x 15.85
Numero vani scale	0
Numero vani ascensore	0
Tipo di fondazione	Indiretta su pali, e plate per assorbire gli scorimenti.

Principali caratteristiche della struttura	
Struttura regolare in pianta	si
Struttura regolare in altezza	si
Classe di duttilità	Non dissipativa
Travi: ricalate o in spessore	0
Pilastrì	00
Pilastrì in falso	0
Tipo di fondazione	Indiretta su pali, e platea
Condizioni per cui è necessario considerare la componente verticale del sisma	nessuna

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
III	50.0	1.5	75.0

Fattore di struttura/comportamento

Struttura non dissipativa

2.3 QUADRO NORMATIVO DI RIFERIMENTO ADOTTATO

Le norme ed i documenti assunti quale riferimento per la progettazione strutturale vengono indicati di seguito.

Nel capitolo "normativa di riferimento" è comunque presente l'elenco completo delle normative disponibili.

Progetto-verifica degli elementi	
Progetto cemento armato	D.M. 17-01-2018
Progetto acciaio	D.M. 17-01-2018
Progetto legno	D.M. 17-01-2018
Progetto muratura	D.M. 17-01-2018
Azione sismica	
Norma applicata per l'azione sismica	D.M. 17-01-2018

2.4 AZIONI DI PROGETTO SULLA COSTRUZIONE

Nei capitoli “modellazione delle azioni” e “schematizzazione dei casi di carico” sono indicate le azioni sulla costruzione.

Nel prosieguo si indicano tipo di analisi strutturale condotta (statico, dinamico, lineare o non lineare) e il metodo adottato per la risoluzione del problema strutturale nonché le metodologie seguite per la verifica o per il progetto-verifica delle sezioni. Si riportano le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti; le configurazioni studiate per la struttura in esame *sono risultate effettivamente esaustive per la progettazione-verifica*.

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L'analisi strutturale è condotta con il metodo dell'analisi modale e dello spettro di risposta in termini di accelerazione per la valutazione dello stato tensodeformativo indotto da carichi dinamici (tra cui quelli di tipo sismico).

L'analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell'ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

$$\mathbf{K} \cdot \mathbf{u} = \mathbf{F} \text{ dove } \begin{array}{l} \mathbf{K} = \text{matrice di rigidezza} \\ \mathbf{u} = \text{vettore spostamenti nodali} \\ \mathbf{F} = \text{vettore forze nodali} \end{array}$$

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all'elemento stesso. Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

Elemento tipo TRUSS	(biella-D2)
Elemento tipo BEAM	(trave-D2)
Elemento tipo MEMBRANE	(membrana-D3)
Elemento tipo PLATE	(piastra-guscio-D3)
Elemento tipo BOUNDARY	(molla)
Elemento tipo STIFFNESS	(matrice di rigidezza)
Elemento tipo BRICK	(elemento solido)
Elemento tipo SOLAIO	(macro elemento composto da più membrane)

2.5 MODELLO NUMERICO

In questa parte viene descritto il modello numerico utilizzato (o i modelli numerici utilizzati) per l'analisi della struttura. La presentazione delle informazioni deve essere, coerentemente con le prescrizioni del paragrafo 10.2 e relativi sottoparagrafi delle NTC-18, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

Gli elementi della modellazione sono degli elementi shell detti d3

2.5.1 Tipo di analisi strutturale	
Sismica statica lineare	NO
Sismica dinamica lineare	SI
Sismica statica non lineare (prop. masse)	NO
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	NO
Non linearità geometriche (fattore P delta)	NO
Analisi lineare	SI

Di seguito si indicano l'origine e le caratteristiche dei codici di calcolo utilizzati riportando titolo, produttore e distributore, versione, estremi della licenza d'uso:

2.5.2 Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2023-07-199)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara

Dati utente finale:	Owac Engineering Company
Codice Utente:	Owac Engineering Company
Codice Licenza:	Licenza dsi5924

Un attento esame preliminare della documentazione a corredo del software **ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico**. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

2.5.3 Affidabilità dei codici utilizzati

2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche. E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: <https://www.2si.it/it/prodotti/affidabilita/>

Modellazione della geometria e proprietà meccaniche:

nodi	1449
elementi D2 (per aste, travi, pilastri...)	0
elementi D3 (per pareti, platee, gusci...)	1445
elementi solaio	0
elementi solidi	0

Dimensione del modello strutturale [cm]:

X min =	150.00
Xmax =	1735.00
Ymin =	150.00
Ymax =	1150.00
Zmin =	0.00
Zmax =	525.00

Strutture verticali:

Elementi di tipo asta	NO
Pilastri	NO
Pareti	SI
Setti (a comportamento membranale)	NO

Strutture non verticali:

Elementi di tipo asta	NO
Travi	NO
Gusci	SI
Membrane	NO

Orizzontamenti:

Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	NO

Tipo di vincoli:

Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	SI
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI

Fondazioni con elementi solidi	NO

2.6 MODELLAZIONE DELLE AZIONI

Si veda il capitolo **“Schematizzazione dei casi di carico”** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte *“2.6. Azioni di progetto sulla costruzione”*.

2.7 COMBINAZIONI E/O PERCORSI DI CARICO

Si veda il capitolo **“Definizione delle combinazioni”** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
SLU	SI
SLV (SLU con sisma)	SI
SLC	NO
SLD	SI
SLO	SI
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI
SLA (accidentale quale incendio)	NO

Principali risultati

I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta.

Nella presente relazione di calcolo sono riportati i seguenti risultati che il progettista ritiene di interesse per la descrizione e la comprensione del/i modello/i e del comportamento della struttura:

per l'analisi modale:

- periodi dei modi di vibrare della struttura
- masse eccitate dai singoli modi
- massa eccitata totale

deformate e sollecitazioni:

- spostamenti e rotazioni dei singoli nodi della struttura
- reazioni vincolari (nel caso siano presenti nodi vincolati rigidamente)
- pressioni sul terreno (nel caso siano presenti elementi di fondazione)
- sollecitazioni sugli elementi d2 nelle combinazioni di calcolo più significative
- tensioni sugli elementi d3 nelle combinazioni di calcolo più significative
- sollecitazioni sui macroelementi da elementi d3 nelle combinazioni di calcolo più significative

altri risultati significativi:

- nessuna

La presente relazione, oltre ad illustrare in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare, riporta una serie di immagini:

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi
- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

per le combinazioni più significative (statisticamente più gravose per la struttura):

- configurazioni deformate
- diagrammi e involuipi delle azioni interne
- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi:

- diagrammi di armatura
- percentuali di sfruttamento

- mappe delle verifiche più significative per i vari stati limite

Informazioni generali sull'elaborazione e giudizio motivato di accettabilità dei risultati.

Il programma prevede una serie di controlli automatici (check) che consentono l'individuazione di errori di modellazione. Al termine dell'analisi un controllo automatico identifica la presenza di spostamenti o rotazioni anormali. Si può pertanto asserire che l'elaborazione sia corretta e completa. I risultati delle elaborazioni sono stati sottoposti a controlli che ne comprovano l'attendibilità. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali e adottati, anche in fase di primo proporzionamento della struttura. Inoltre, sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni. Si allega al termine della presente relazione elenco sintetico dei controlli svolti (verifiche di equilibrio tra reazioni vincolari e carichi applicati, comparazioni tra i risultati delle analisi e quelli di valutazioni semplificate, etc.) .

2.8 VERIFICHE AGLI STATI LIMITE ULTIMI

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità ed i criteri seguiti per valutare la sicurezza della struttura nei confronti delle possibili situazioni di crisi ed i risultati delle valutazioni svolte. In via generale, oltre alle verifiche di resistenza e di spostamento, devono essere prese in considerazione verifiche nei confronti dei fenomeni di instabilità, locale e globale, di fatica, di duttilità, di degrado.

2.9 VERIFICHE AGLI STATI LIMITE DI ESERCIZIO

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLE vengono indicate, con riferimento alla normativa adottata, le modalità seguite per valutare l'affidabilità della struttura nei confronti delle possibili situazioni di perdita di funzionalità (per eccessive deformazioni, fessurazioni, vibrazioni, etc.) ed i risultati delle valutazioni svolte.

3 NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare 21/01/19, n. 7 C.S.LL.PP. "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
3. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
4. D.M. LL.PP. 9 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".
5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
6. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
7. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
8. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
9. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
10. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
11. D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".
12. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
13. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
14. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni e integrazioni.
15. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
16. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
17. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
18. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
19. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
20. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
21. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
22. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
23. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte

- 1-1: Regole generali e regole per gli edifici.
24. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
25. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
26. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
27. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali – Regole comuni e regole per gli edifici.
28. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
29. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
30. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi di calcolo semplificato per strutture di muratura non armata.
31. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
32. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
33. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
34. UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.
35. CNR DT-200/2013 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati
36. CNR DT-215/2018 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati a Matrice Inorganica

NOTA: il presente capitolo riporta l'elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI CALCOLO".

Laddove nei capitoli successivi vengano richiamate normative antecedenti al DM 17.01.18 è dovuto alla progettazione simulata di edificio esistente.

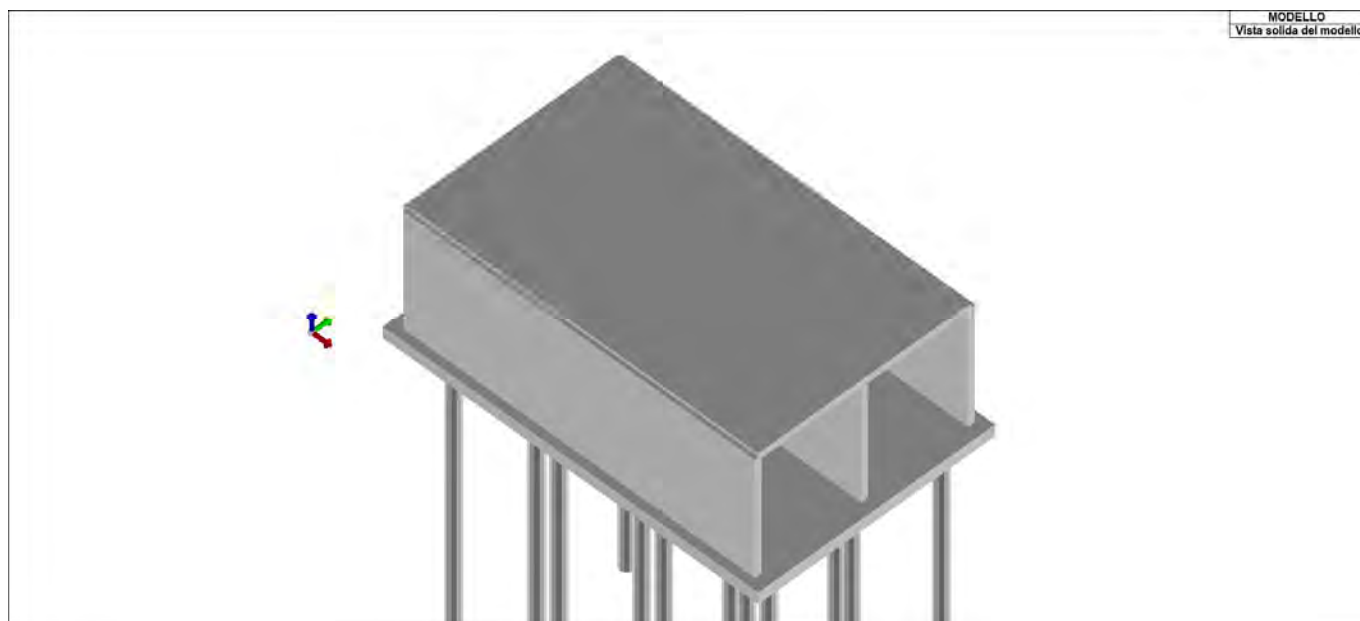


Figura 1 - VISTA_SOLIDA_001

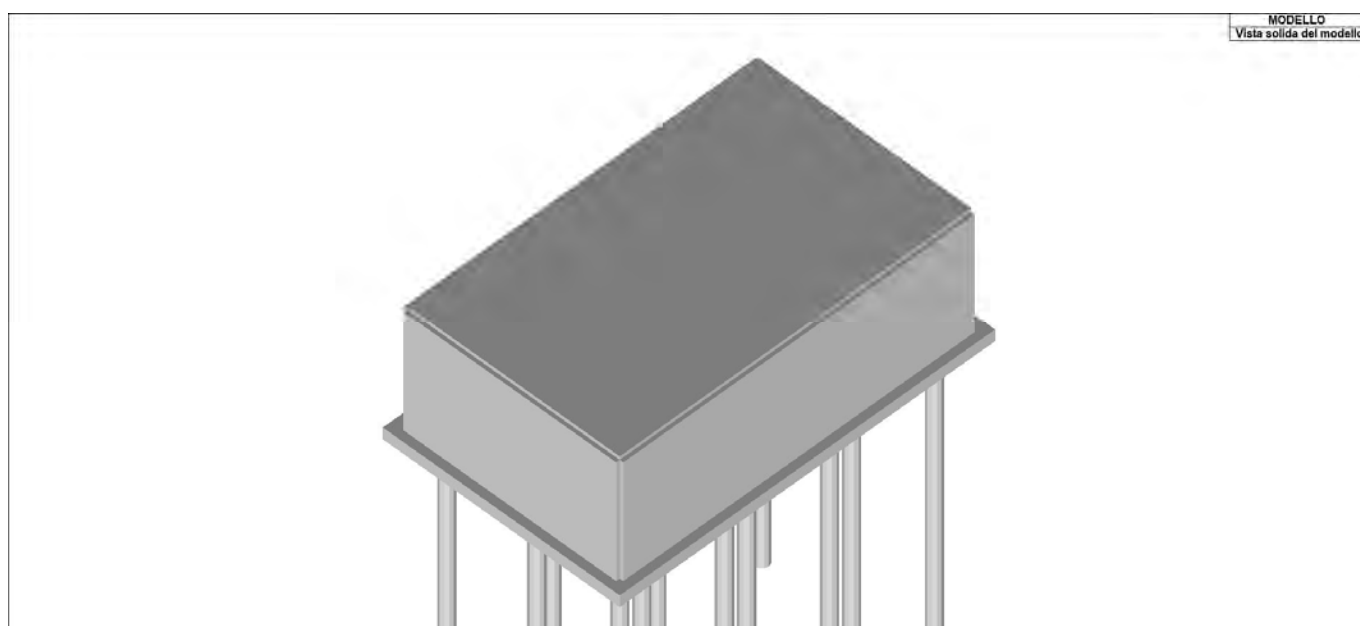


Figura 2 - VISTA_SOLIDA_002

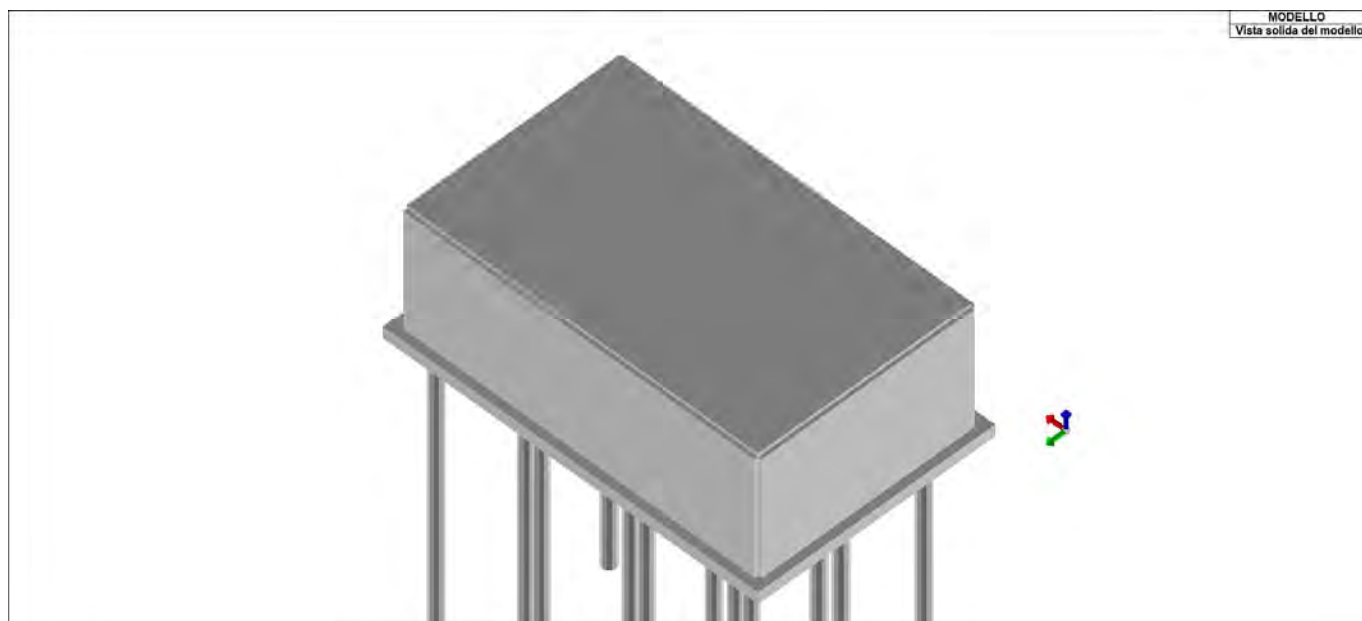


Figura 3 - VISTA_SOLIDA_003

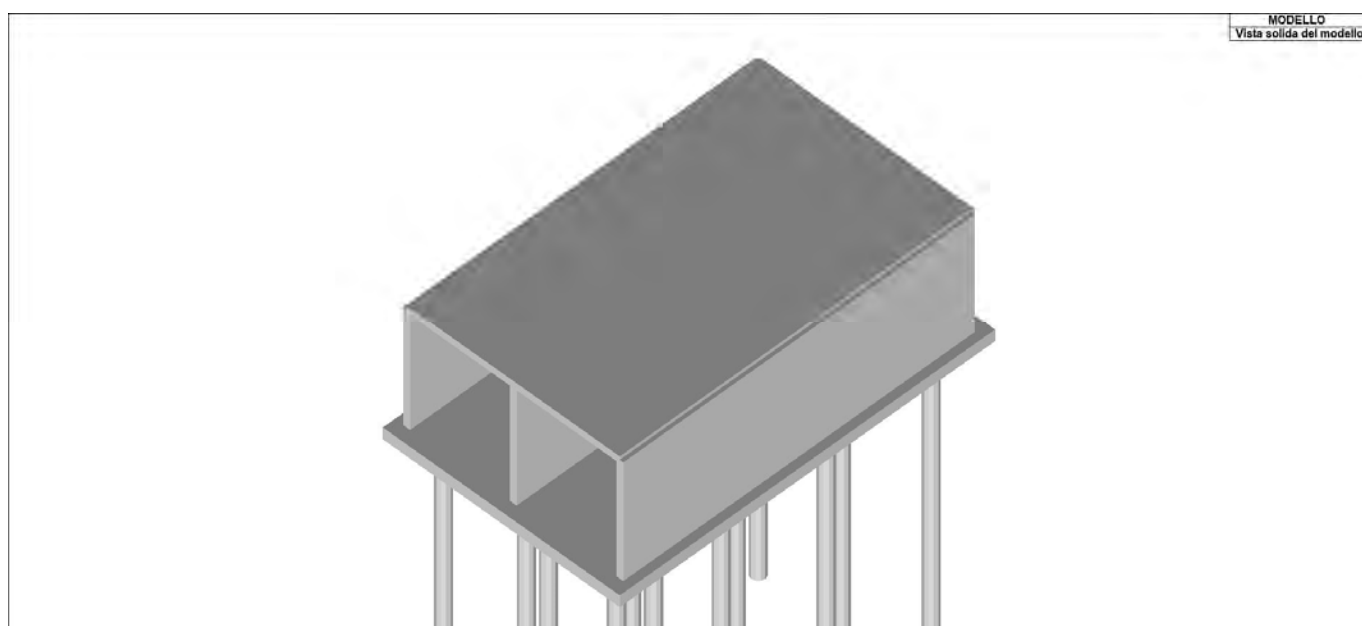


Figura 4 - VISTA_SOLIDA_004

4 CARATTERISTICHE MATERIALI UTILIZZATI

4.1 LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo cemento armato
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

I materiali utilizzati nella modellazione sono individuati da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni materiale vengono riportati in tabella i seguenti dati:

Young	modulo di elasticità normale E
Poisson	coefficiente di contrazione trasversale ν
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale; (è riportato solo se diverso da quello globale della struttura)
Fattore di confidenza FC a	Fattore di confidenza specifico per l'armatura (è riportato solo se diverso da quello globale della struttura)
Elasto-plastico	Materiale elastico perfettamente plastico per aste non lineari
Massima compressione	Massima tensione di compressione per aste non lineari
Massima trazione	Massima tensione di trazione per aste non lineari
Fattore attrito	Coefficiente di attrito per aste non lineari
Rapporto HRDb	Rapporto di hardening a flessione
Rapporto HRDv	Rapporto di hardening a taglio

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	c.a.	Resistenza Rc Resistenza f_{ctm} Coefficiente α_{sb}	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione f_t Tensione f_y Resistenza f_d Resistenza $f_d (>40)$ Tensione ammissibile Tensione	Valore della tensione di rottura Valore della tensione di snervamento Resistenza di calcolo per SL CNR-UNI 10011 Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm Tensione ammissibile CNR-UNI 10011 Tensione ammissibile CNR-UNI 10011 per spessori > 40mm

ammissibile(>40)		
3	muratura	Muratura consolidata Muratura per la quale si prevedono interventi di rinforzo" Incremento resistenza Incremento conseguito in termini di resistenza Incremento rigidezza Incremento conseguito in termini di rigidezza Resistenza f Valore della resistenza a compressione Resistenza fv0 Valore della resistenza a taglio in assenza di tensioni normali Resistenza fh Valore della resistenza a compressione orizzontale Resistenza fb Valore della resistenza a compressione dei blocchi Resistenza fbh Valore della resistenza a compressione dei blocchi in direzione orizzontale Resistenza fv0h Valore della resistenza a taglio in assenza di tensioni normali per le travi Resistenza ft Valore della resistenza a trazione per fessurazione diagonale Resistenza fvlm Valore della massima resistenza a taglio Resistenza fbt Valore della resistenza a trazione dei blocchi Coefficiente mu Coefficiente d'attrito utilizzato per la resistenza a taglio Coefficiente fi Coefficiente d'ingranamento utilizzato per la resistenza a taglio Coefficiente ksb Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05 Modulo di elasticità corrispondente ad un frattile del 5% Resistenza fc0 Valore della resistenza a compressione parallela Resistenza ft0 Valore della resistenza a trazione parallela Resistenza fm Valore della resistenza a flessione Resistenza fv Valore della resistenza a taglio Resist. ft0k Resistenza caratteristica (tensione amm. per REGLES) per trazione Resist. fmk Resistenza caratteristica (tensione amm. per REGLES) per flessione Resist. fvk Resistenza caratteristica (tensione amm. per REGLES) per taglio Modulo E0,05 Modulo elastico parallelo caratteristico Lamellare lamellare o massiccio

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP, CNR-DT 215 per interventi con FRCM)

Vengono inoltre riportate le tabelle contenenti il riassunto delle informazioni assegnate nei criteri di progetto in uso.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
5	Calcestruzzo Classe C32/40			3.364e+05	0.20	1.402e+05	2.50e-03	1.00e-05	
	Resistenza Rc	400.0							
	Resistenza fctm		31.0						
	Rapporto Rfessurata (assiale)								1.00
	Rapporto Rfessurata (flessione)								1.00
	Rapporto Rfessurata (taglio)								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 18 di 378

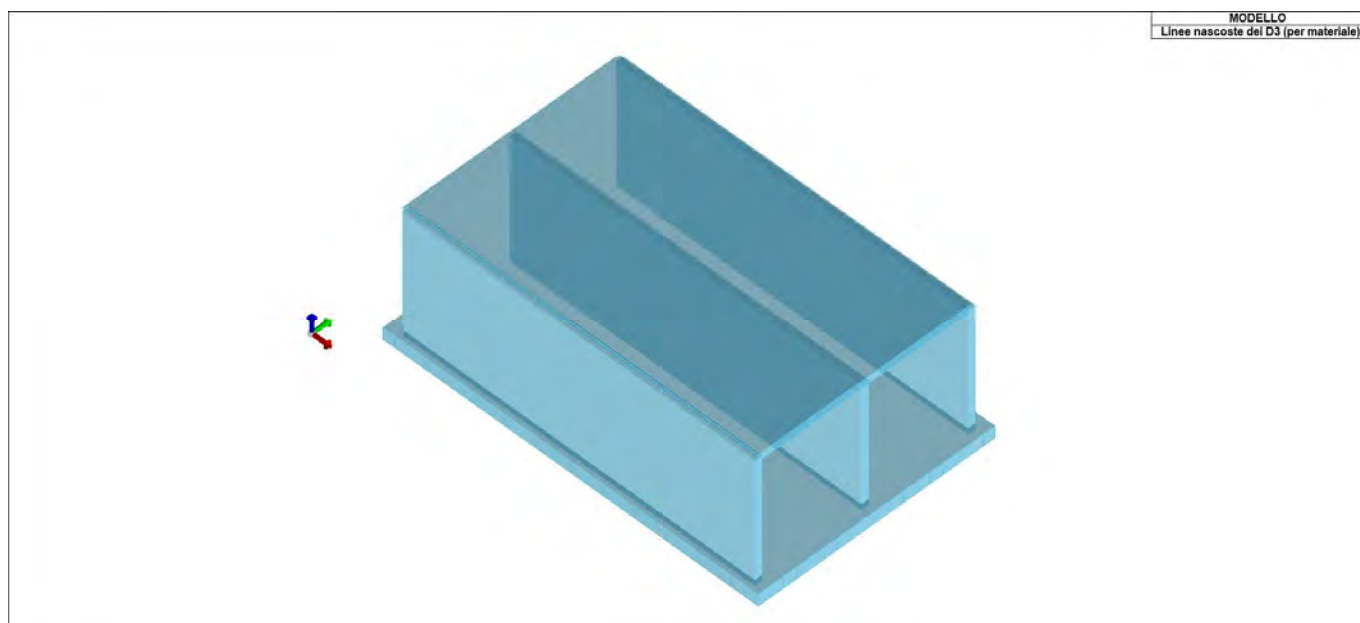


Figura 5 - MOD_MATERIALI_D3

Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Singolo elemento	Singolo elemento FONDAZIONE	Singolo elemento NON DISSIPATIVO	Singolo elemento	Parete estesa debolmente armata	Singolo elemento
	Singolo elemento	Singolo elemento NON DISSIPATIVO				
Armatura						
Inclinazione Av [gradi]	90.00	90.00	90.00	90.00	90.00	90.00
	90.00	90.00				
Angolo Av-Ao [gradi]	90.00	90.00	90.00	90.00	90.00	90.00
	90.00	90.00				
Minima tesa	0.20	0.20	0.20	2.000e-02	0.20	0.20
	0.20	0.20				
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
	4.00	4.00				
Maglia unica centrale	NO	NO	NO	NO	NO	NO
	NO	NO				
Unico strato verticale	NO	NO	NO	NO	NO	NO
	NO	NO				
Unico strato orizzontale	NO	NO	NO	NO	NO	NO
	NO	NO				
Copriferro [cm]	2.00	2.00	5.00	2.00	2.00	2.00
	2.00	5.00				
Maglia V						
diametro	10	10	14	10	10	10
	10	20				
passo	25	25	20	25	25	25
	25	20				
diametro aggiuntivi	12	12	14	12	12	12
	12	20				
Maglia O						

Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
diametro	10	10	14	10	10	10
	10	20				
passo	25	25	20	25	25	25
	25	20				
diametro aggiuntivi	12	12	14	12	12	12
	12	20				
Stati limite ultimi						
Tensione fy [daN/cm ²]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
	1.15	1.15				
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
	1.50	1.50				
Verifiche con N costante	SI	SI	SI	SI	SI	SI
	SI	SI				
Tensioni ammissibili						
Tensione amm. cls [daN/cm ²]	97.50	97.50	97.50	97.50	97.50	97.50
	97.50	97.50				
Tensione amm. acciaio [daN/cm ²]	2600.00	2600.00	2600.00	2600.00	2600.00	2600.00
	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Parete estesa debolmente armata						
Fattore amplificazione taglio V	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Hcrit. par. 7.4.4.5.1 [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Hcrit. par. 7.4.6.1.4 [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Diagramma involuppo taglio	NO	NO	NO	NO	NO	NO
	NO	NO				
Vincolo lati	nessun lato	nessun lato	nessun lato	nessun lato	nessun lato	nessun lato
	nessun lato	nessun lato				
Verifica come fascia	NO	NO	NO	NO	SI	NO
	NO	NO				
Diametro di estremità	0	0	0	0	0	0
	0	0				
Zona confinata						
Minima tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
	4.00	4.00				
Distanza barre [cm]	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00				
Interferro	2	2	2	2	2	2

Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
2	2					
Armatura inclinata						
Area barre [cm2]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Angolo orizzontale [gradi]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Distanza di base [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Resistenza al fuoco						
3- intradosso	NO	NO	NO	NO	NO	NO
	NO	NO				
3+ estradosso	NO	NO	NO	NO	NO	NO
	NO	NO				
Tempo di esposizione R	15	15	15	15	15	15
	15	15				

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Armatura						
Inclinazione Ax [gradi]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Angolo Ax-Ay [gradi]	90.00	90.00	90.00	90.00	90.00	90.00
	90.00	90.00				
Minima tesa	0.31	0.10	0.13	2.000e-02	0.31	0.31
	0.31	0.13				
Massima tesa	0.78	4.00	4.00	4.00	0.78	0.78
	0.78	4.00				
Maglia unica centrale	NO	NO	NO	NO	NO	NO
	NO	NO				
Copriferro [cm]	2.00	3.00	5.00	2.00	2.00	2.00
	2.00	5.00				
Maglia x						
diametro	10	12	14	10	10	10
	10	20				
passo	20	20	20	20	20	20
	20	20				
diametro aggiuntivi	12	12	14	12	12	12
	12	20				
Maglia y						
diametro	10	12	14	10	10	10
	10	20				
passo	20	20	20	20	20	20
	20	20				
diametro aggiuntivi	12	12	14	12	12	12
	12	20				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
	1.15	1.15				
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
	1.50	1.50				
Verifiche con N costante	SI	SI	SI	SI	SI	SI
	SI	SI				
Applica SLU da DIN	NO	NO	NO	NO	NO	NO
	NO	NO				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50	97.50	97.50	97.50	97.50
	97.50	97.50				
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00	2600.00	2600.00	2600.00
	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00

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BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 21 di 378

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Resistenza al fuoco						
3- intradosso	NO	NO	NO	NO	NO	NO
	NO	NO				
3+ estradosso	NO	NO	NO	NO	NO	NO
	NO	NO				
Tempo di esposizione R	15	15	15	15	15	15
	15	15				

5 MODELLAZIONE DELLE SEZIONI

5.1 LEGENDA TABELLA DATI SEZIONI

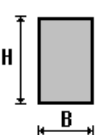
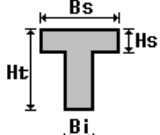
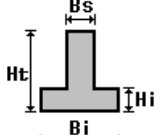
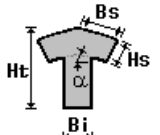
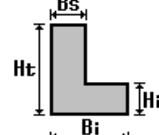
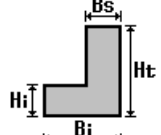
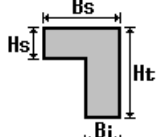
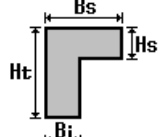
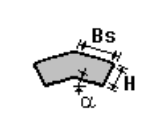
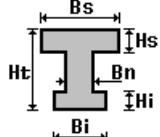
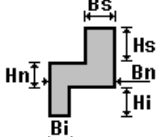
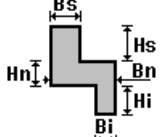
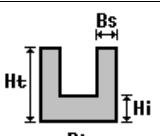
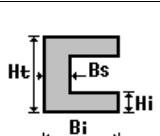
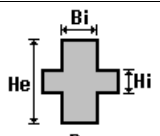
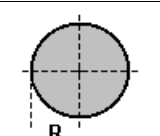
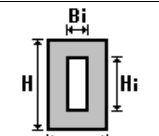
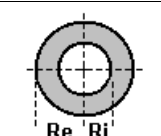
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

1. sezione di tipo generico
2. profilati semplici
3. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidezza
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

 rettangolare	 a T	 a T rovescia	 a T di colmo	 a L	 a L specchiata
 a L specchiata rovescia	 a L rovescia	 a L di colmo	 a doppio T	 a quattro specchiata	 a quattro
 a U	 a C	 a croce	 circolare	 rettangolare cava	 circolare cava

Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilatari.

Per quanto concerne le sezioni di tipo generico (tipo 1.):
i valori dimensionali con prefisso B sono riferiti all'asse 2
i valori dimensionali con prefisso H sono riferiti all'asse 3

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3

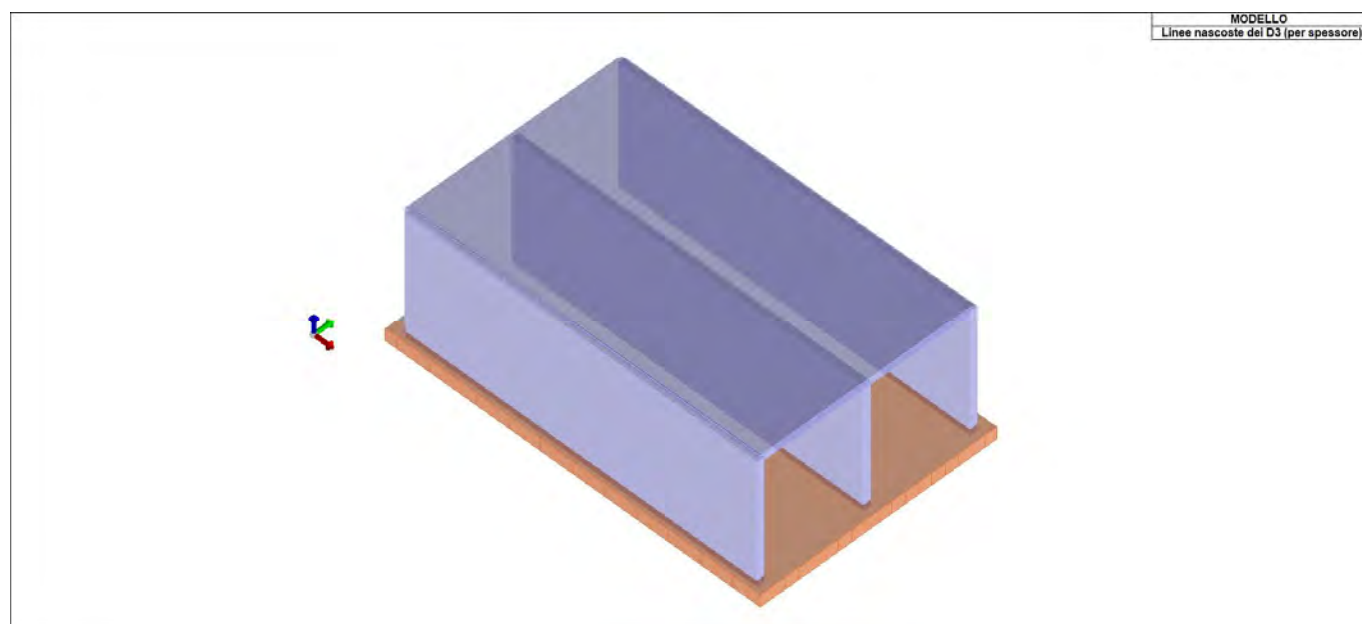


Figura 6 - MOD_SPESSORI_D3

6 MODELLAZIONE STRUTTURA: NODI

6.1 LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
Note	(FS = 1, 2,...) eventuale codice del tipo di fondazione speciale (1, 2,... fanno riferimento alle tipologie: plinto, palo, plinto su pali,...) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

6.1.1 TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	200.0	200.0	0.0	2	200.0	650.0	0.0	3	537.5	650.0	525.0
4	1685.0	200.0	0.0	5	1685.0	650.0	0.0	6	807.5	650.0	525.0
7	200.0	200.0	525.0	8	200.0	650.0	525.0	9	470.0	650.0	525.0
10	1685.0	200.0	525.0	11	1685.0	650.0	525.0	12	875.0	650.0	525.0
13	200.0	200.0	65.6	14	267.5	200.0	65.6	15	267.5	200.0	0.0
16	200.0	200.0	131.2	17	267.5	200.0	131.2	18	200.0	200.0	196.9
19	267.5	200.0	196.9	20	200.0	200.0	262.5	21	267.5	200.0	262.5
22	200.0	200.0	328.1	23	267.5	200.0	328.1	24	200.0	200.0	393.8
25	267.5	200.0	393.8	26	200.0	200.0	459.4	27	267.5	200.0	459.4
28	267.5	200.0	525.0	29	335.0	200.0	65.6	30	335.0	200.0	0.0
31	335.0	200.0	131.2	32	335.0	200.0	196.9	33	335.0	200.0	262.5
34	335.0	200.0	328.1	35	335.0	200.0	393.8	36	335.0	200.0	459.4
37	335.0	200.0	525.0	38	402.5	200.0	65.6	39	402.5	200.0	0.0
40	402.5	200.0	131.2	41	402.5	200.0	196.9	42	402.5	200.0	262.5

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
43	402.5	200.0	328.1	44	402.5	200.0	393.8	45	402.5	200.0	459.4
46	402.5	200.0	525.0	47	470.0	200.0	65.6	48	470.0	200.0	0.0
49	470.0	200.0	131.2	50	470.0	200.0	196.9	51	470.0	200.0	262.5
52	470.0	200.0	328.1	53	470.0	200.0	393.8	54	470.0	200.0	459.4
55	470.0	200.0	525.0	56	537.5	200.0	65.6	57	537.5	200.0	0.0
58	537.5	200.0	131.2	59	537.5	200.0	196.9	60	537.5	200.0	262.5
61	537.5	200.0	328.1	62	537.5	200.0	393.8	63	537.5	200.0	459.4
64	537.5	200.0	525.0	65	605.0	200.0	65.6	66	605.0	200.0	0.0
67	605.0	200.0	131.2	68	605.0	200.0	196.9	69	605.0	200.0	262.5
70	605.0	200.0	328.1	71	605.0	200.0	393.8	72	605.0	200.0	459.4
73	605.0	200.0	525.0	74	672.5	200.0	65.6	75	672.5	200.0	0.0
76	672.5	200.0	131.2	77	672.5	200.0	196.9	78	672.5	200.0	262.5
79	672.5	200.0	328.1	80	672.5	200.0	393.8	81	672.5	200.0	459.4
82	672.5	200.0	525.0	83	740.0	200.0	65.6	84	740.0	200.0	0.0
85	740.0	200.0	131.2	86	740.0	200.0	196.9	87	740.0	200.0	262.5
88	740.0	200.0	328.1	89	740.0	200.0	393.8	90	740.0	200.0	459.4
91	740.0	200.0	525.0	92	807.5	200.0	65.6	93	807.5	200.0	0.0
94	807.5	200.0	131.2	95	807.5	200.0	196.9	96	807.5	200.0	262.5
97	807.5	200.0	328.1	98	807.5	200.0	393.8	99	807.5	200.0	459.4
100	807.5	200.0	525.0	101	875.0	200.0	65.6	102	875.0	200.0	0.0
103	875.0	200.0	131.2	104	875.0	200.0	196.9	105	875.0	200.0	262.5
106	875.0	200.0	328.1	107	875.0	200.0	393.8	108	875.0	200.0	459.4
109	875.0	200.0	525.0	110	942.5	200.0	65.6	111	942.5	200.0	0.0
112	942.5	200.0	131.2	113	942.5	200.0	196.9	114	942.5	200.0	262.5
115	942.5	200.0	328.1	116	942.5	200.0	393.8	117	942.5	200.0	459.4
118	942.5	200.0	525.0	119	1010.0	200.0	65.6	120	1010.0	200.0	0.0
121	1010.0	200.0	131.2	122	1010.0	200.0	196.9	123	1010.0	200.0	262.5
124	1010.0	200.0	328.1	125	1010.0	200.0	393.8	126	1010.0	200.0	459.4
127	1010.0	200.0	525.0	128	1077.5	200.0	65.6	129	1077.5	200.0	0.0
130	1077.5	200.0	131.2	131	1077.5	200.0	196.9	132	1077.5	200.0	262.5
133	1077.5	200.0	328.1	134	1077.5	200.0	393.8	135	1077.5	200.0	459.4
136	1077.5	200.0	525.0	137	1145.0	200.0	65.6	138	1145.0	200.0	0.0
139	1145.0	200.0	131.2	140	1145.0	200.0	196.9	141	1145.0	200.0	262.5
142	1145.0	200.0	328.1	143	1145.0	200.0	393.8	144	1145.0	200.0	459.4
145	1145.0	200.0	525.0	146	1212.5	200.0	65.6	147	1212.5	200.0	0.0
148	1212.5	200.0	131.2	149	1212.5	200.0	196.9	150	1212.5	200.0	262.5
151	1212.5	200.0	328.1	152	1212.5	200.0	393.8	153	1212.5	200.0	459.4
154	1212.5	200.0	525.0	155	1280.0	200.0	65.6	156	1280.0	200.0	0.0
157	1280.0	200.0	131.2	158	1280.0	200.0	196.9	159	1280.0	200.0	262.5
160	1280.0	200.0	328.1	161	1280.0	200.0	393.8	162	1280.0	200.0	459.4
163	1280.0	200.0	525.0	164	1347.5	200.0	65.6	165	1347.5	200.0	0.0
166	1347.5	200.0	131.2	167	1347.5	200.0	196.9	168	1347.5	200.0	262.5
169	1347.5	200.0	328.1	170	1347.5	200.0	393.8	171	1347.5	200.0	459.4
172	1347.5	200.0	525.0	173	1415.0	200.0	65.6	174	1415.0	200.0	0.0
175	1415.0	200.0	131.2	176	1415.0	200.0	196.9	177	1415.0	200.0	262.5
178	1415.0	200.0	328.1	179	1415.0	200.0	393.8	180	1415.0	200.0	459.4
181	1415.0	200.0	525.0	182	1482.5	200.0	65.6	183	1482.5	200.0	0.0
184	1482.5	200.0	131.2	185	1482.5	200.0	196.9	186	1482.5	200.0	262.5
187	1482.5	200.0	328.1	188	1482.5	200.0	393.8	189	1482.5	200.0	459.4
190	1482.5	200.0	525.0	191	1550.0	200.0	65.6	192	1550.0	200.0	0.0
193	1550.0	200.0	131.2	194	1550.0	200.0	196.9	195	1550.0	200.0	262.5
196	1550.0	200.0	328.1	197	1550.0	200.0	393.8	198	1550.0	200.0	459.4
199	1550.0	200.0	525.0	200	1617.5	200.0	65.6	201	1617.5	200.0	0.0
202	1617.5	200.0	131.2	203	1617.5	200.0	196.9	204	1617.5	200.0	262.5
205	1617.5	200.0	328.1	206	1617.5	200.0	393.8	207	1617.5	200.0	459.4
208	1617.5	200.0	525.0	209	1685.0	200.0	65.6	210	1685.0	200.0	131.2
211	1685.0	200.0	196.9	212	1685.0	200.0	262.5	213	1685.0	200.0	328.1
214	1685.0	200.0	393.8	215	1685.0	200.0	459.4	216	672.5	150.0	0.0
217	740.0	150.0	0.0	218	807.5	150.0	0.0	219	875.0	150.0	0.0
220	200.0	650.0	65.6	221	267.5	650.0	65.6	223	200.0	650.0	131.2
224	267.5	650.0	131.2	225	200.0	650.0	196.9	226	267.5	650.0	196.9
227	200.0	650.0	262.5	228	267.5	650.0	262.5	229	200.0	650.0	328.1
230	267.5	650.0	328.1	231	200.0	650.0	393.8	232	267.5	650.0	393.8
233	200.0	650.0	459.4	234	267.5	650.0	459.4	235	267.5	650.0	525.0
236	335.0	650.0	65.6	237	335.0	650.0	0.0	238	335.0	650.0	131.2
239	335.0	650.0	196.9	240	335.0	650.0	262.5	241	335.0	650.0	328.1
242	335.0	650.0	393.8	243	335.0	650.0	459.4	244	335.0	650.0	525.0
245	402.5	650.0	65.6	246	402.5	650.0	0.0	247	402.5	650.0	131.2
248	402.5	650.0	196.9	249	402.5	650.0	262.5	250	402.5	650.0	328.1
251	402.5	650.0	393.8	252	402.5	650.0	459.4	253	402.5	650.0	525.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 26 di 378

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
254	470.0	650.0	65.6	255	470.0	650.0	0.0	256	470.0	650.0	131.2
257	470.0	650.0	196.9	258	470.0	650.0	262.5	259	470.0	650.0	328.1
260	470.0	650.0	393.8	261	470.0	650.0	459.4	262	537.5	650.0	65.6
263	537.5	650.0	0.0	264	537.5	650.0	131.2	265	537.5	650.0	196.9
266	537.5	650.0	262.5	267	537.5	650.0	328.1	268	537.5	650.0	393.8
269	537.5	650.0	459.4	270	605.0	650.0	65.6	271	605.0	650.0	0.0
272	605.0	650.0	131.2	273	605.0	650.0	196.9	274	605.0	650.0	262.5
275	605.0	650.0	328.1	276	605.0	650.0	393.8	277	605.0	650.0	459.4
278	605.0	650.0	525.0	279	672.5	650.0	65.6	280	672.5	650.0	0.0
281	672.5	650.0	131.2	282	672.5	650.0	196.9	283	672.5	650.0	262.5
284	672.5	650.0	328.1	285	672.5	650.0	393.8	286	672.5	650.0	459.4
287	672.5	650.0	525.0	288	740.0	650.0	65.6	290	740.0	650.0	131.2
291	740.0	650.0	196.9	292	740.0	650.0	262.5	293	740.0	650.0	328.1
294	740.0	650.0	393.8	295	740.0	650.0	459.4	296	740.0	650.0	525.0
297	807.5	650.0	65.6	298	807.5	650.0	0.0	299	807.5	650.0	131.2
300	807.5	650.0	196.9	301	807.5	650.0	262.5	302	807.5	650.0	328.1
303	807.5	650.0	393.8	304	807.5	650.0	459.4	305	875.0	650.0	65.6
306	875.0	650.0	0.0	307	875.0	650.0	131.2	308	875.0	650.0	196.9
309	875.0	650.0	262.5	310	875.0	650.0	328.1	311	875.0	650.0	393.8
312	875.0	650.0	459.4	313	942.5	650.0	65.6	314	942.5	650.0	0.0
315	942.5	650.0	131.2	316	942.5	650.0	196.9	317	942.5	650.0	262.5
318	942.5	650.0	328.1	319	942.5	650.0	393.8	320	942.5	650.0	459.4
321	942.5	650.0	525.0	322	1010.0	650.0	65.6	323	1010.0	650.0	0.0
324	1010.0	650.0	131.2	325	1010.0	650.0	196.9	326	1010.0	650.0	262.5
327	1010.0	650.0	328.1	328	1010.0	650.0	393.8	329	1010.0	650.0	459.4
330	1010.0	650.0	525.0	331	1077.5	650.0	65.6	332	1077.5	650.0	0.0
333	1077.5	650.0	131.2	334	1077.5	650.0	196.9	335	1077.5	650.0	262.5
336	1077.5	650.0	328.1	337	1077.5	650.0	393.8	338	1077.5	650.0	459.4
339	1077.5	650.0	525.0	340	1145.0	650.0	65.6	341	1145.0	650.0	0.0
342	1145.0	650.0	131.2	343	1145.0	650.0	196.9	344	1145.0	650.0	262.5
345	1145.0	650.0	328.1	346	1145.0	650.0	393.8	347	1145.0	650.0	459.4
348	1145.0	650.0	525.0	349	1212.5	650.0	65.6	351	1212.5	650.0	131.2
352	1212.5	650.0	196.9	353	1212.5	650.0	262.5	354	1212.5	650.0	328.1
355	1212.5	650.0	393.8	356	1212.5	650.0	459.4	357	1212.5	650.0	525.0
358	1280.0	650.0	65.6	359	1280.0	650.0	0.0	360	1280.0	650.0	131.2
361	1280.0	650.0	196.9	362	1280.0	650.0	262.5	363	1280.0	650.0	328.1
364	1280.0	650.0	393.8	365	1280.0	650.0	459.4	366	1280.0	650.0	525.0
367	1347.5	650.0	65.6	368	1347.5	650.0	0.0	369	1347.5	650.0	131.2
370	1347.5	650.0	196.9	371	1347.5	650.0	262.5	372	1347.5	650.0	328.1
373	1347.5	650.0	393.8	374	1347.5	650.0	459.4	375	1415.0	650.0	65.6
376	1415.0	650.0	0.0	377	1415.0	650.0	131.2	378	1415.0	650.0	196.9
379	1415.0	650.0	262.5	380	1415.0	650.0	328.1	381	1415.0	650.0	393.8
382	1415.0	650.0	459.4	383	1415.0	650.0	525.0	384	1482.5	650.0	65.6
385	1482.5	650.0	0.0	386	1482.5	650.0	131.2	387	1482.5	650.0	196.9
388	1482.5	650.0	262.5	389	1482.5	650.0	328.1	390	1482.5	650.0	393.8
391	1482.5	650.0	459.4	392	1482.5	650.0	525.0	393	1550.0	650.0	65.6
394	1550.0	650.0	0.0	395	1550.0	650.0	131.2	396	1550.0	650.0	196.9
397	1550.0	650.0	262.5	398	1550.0	650.0	328.1	399	1550.0	650.0	393.8
400	1550.0	650.0	459.4	401	1550.0	650.0	525.0	402	1617.5	650.0	65.6
404	1617.5	650.0	131.2	405	1617.5	650.0	196.9	406	1617.5	650.0	262.5
407	1617.5	650.0	328.1	408	1617.5	650.0	393.8	409	1617.5	650.0	459.4
410	1617.5	650.0	525.0	411	1685.0	650.0	65.6	412	1685.0	650.0	131.2
413	1685.0	650.0	196.9	414	1685.0	650.0	262.5	415	1685.0	650.0	328.1
416	1685.0	650.0	393.8	417	1685.0	650.0	459.4	418	1347.5	650.0	525.0
419	942.5	150.0	0.0	420	200.0	256.2	525.0	421	267.5	256.2	525.0
422	200.0	312.5	525.0	423	267.5	312.5	525.0	424	200.0	368.8	525.0
425	267.5	368.8	525.0	426	200.0	425.0	525.0	427	267.5	425.0	525.0
428	200.0	481.2	525.0	429	267.5	481.2	525.0	430	200.0	537.5	525.0
431	267.5	537.5	525.0	432	200.0	593.8	525.0	433	267.5	593.8	525.0
434	335.0	256.2	525.0	435	335.0	312.5	525.0	436	335.0	368.8	525.0
437	335.0	425.0	525.0	438	335.0	481.2	525.0	439	335.0	537.5	525.0
440	335.0	593.8	525.0	441	402.5	256.2	525.0	442	402.5	312.5	525.0
443	402.5	368.8	525.0	444	402.5	425.0	525.0	445	402.5	481.2	525.0
446	402.5	537.5	525.0	447	402.5	593.8	525.0	448	470.0	256.2	525.0
449	470.0	312.5	525.0	450	470.0	368.8	525.0	451	470.0	425.0	525.0
452	470.0	481.2	525.0	453	470.0	537.5	525.0	454	470.0	593.8	525.0
455	537.5	256.2	525.0	456	537.5	312.5	525.0	457	537.5	368.8	525.0
458	537.5	425.0	525.0	459	537.5	481.2	525.0	460	537.5	537.5	525.0
461	537.5	593.8	525.0	462	605.0	256.2	525.0	463	605.0	312.5	525.0
464	605.0	368.8	525.0	465	605.0	425.0	525.0	466	605.0	481.2	525.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
467	605.0	537.5	525.0	468	605.0	593.8	525.0	469	672.5	256.2	525.0
470	672.5	312.5	525.0	471	672.5	368.8	525.0	472	672.5	425.0	525.0
473	672.5	481.2	525.0	474	672.5	537.5	525.0	475	672.5	593.8	525.0
476	740.0	256.2	525.0	477	740.0	312.5	525.0	478	740.0	368.8	525.0
479	740.0	425.0	525.0	480	740.0	481.2	525.0	481	740.0	537.5	525.0
482	740.0	593.8	525.0	483	807.5	256.2	525.0	484	807.5	312.5	525.0
485	807.5	368.8	525.0	486	807.5	425.0	525.0	487	807.5	481.2	525.0
488	807.5	537.5	525.0	489	807.5	593.8	525.0	490	875.0	256.2	525.0
491	875.0	312.5	525.0	492	875.0	368.8	525.0	493	875.0	425.0	525.0
494	875.0	481.2	525.0	495	875.0	537.5	525.0	496	875.0	593.8	525.0
497	942.5	256.2	525.0	498	942.5	312.5	525.0	499	942.5	368.8	525.0
500	942.5	425.0	525.0	501	942.5	481.2	525.0	502	942.5	537.5	525.0
503	942.5	593.8	525.0	504	1010.0	256.2	525.0	505	1010.0	312.5	525.0
506	1010.0	368.8	525.0	507	1010.0	425.0	525.0	508	1010.0	481.2	525.0
509	1010.0	537.5	525.0	510	1010.0	593.8	525.0	511	1077.5	256.2	525.0
512	1077.5	312.5	525.0	513	1077.5	368.8	525.0	514	1077.5	425.0	525.0
515	1077.5	481.2	525.0	516	1077.5	537.5	525.0	517	1077.5	593.8	525.0
518	1145.0	256.2	525.0	519	1145.0	312.5	525.0	520	1145.0	368.8	525.0
521	1145.0	425.0	525.0	522	1145.0	481.2	525.0	523	1145.0	537.5	525.0
524	1145.0	593.8	525.0	525	1212.5	256.2	525.0	526	1212.5	312.5	525.0
527	1212.5	368.8	525.0	528	1212.5	425.0	525.0	529	1212.5	481.2	525.0
530	1212.5	537.5	525.0	531	1212.5	593.8	525.0	532	1280.0	256.2	525.0
533	1280.0	312.5	525.0	534	1280.0	368.8	525.0	535	1280.0	425.0	525.0
536	1280.0	481.2	525.0	537	1280.0	537.5	525.0	538	1280.0	593.8	525.0
539	1347.5	256.2	525.0	540	1347.5	312.5	525.0	541	1347.5	368.8	525.0
542	1347.5	425.0	525.0	543	1347.5	481.2	525.0	544	1347.5	537.5	525.0
545	1347.5	593.8	525.0	546	1415.0	256.2	525.0	547	1415.0	312.5	525.0
548	1415.0	368.8	525.0	549	1415.0	425.0	525.0	550	1415.0	481.2	525.0
551	1415.0	537.5	525.0	552	1415.0	593.8	525.0	553	1482.5	256.2	525.0
554	1482.5	312.5	525.0	555	1482.5	368.8	525.0	556	1482.5	425.0	525.0
557	1482.5	481.2	525.0	558	1482.5	537.5	525.0	559	1482.5	593.8	525.0
560	1550.0	256.2	525.0	561	1550.0	312.5	525.0	562	1550.0	368.8	525.0
563	1550.0	425.0	525.0	564	1550.0	481.2	525.0	565	1550.0	537.5	525.0
566	1550.0	593.8	525.0	567	1617.5	256.2	525.0	568	1617.5	312.5	525.0
569	1617.5	368.8	525.0	570	1617.5	425.0	525.0	571	1617.5	481.2	525.0
572	1617.5	537.5	525.0	573	1617.5	593.8	525.0	574	1685.0	256.2	525.0
575	1685.0	312.5	525.0	576	1685.0	368.8	525.0	577	1685.0	425.0	525.0
578	1685.0	481.2	525.0	579	1685.0	537.5	525.0	580	1685.0	593.8	525.0
581	200.0	256.2	65.6	582	200.0	256.2	0.0	583	200.0	256.2	131.2
584	200.0	256.2	196.9	585	200.0	256.2	262.5	586	200.0	256.2	328.1
587	200.0	256.2	393.8	588	200.0	256.2	459.4	589	200.0	312.5	65.6
590	200.0	312.5	0.0	591	200.0	312.5	131.2	592	200.0	312.5	196.9
593	200.0	312.5	262.5	594	200.0	312.5	328.1	595	200.0	312.5	393.8
596	200.0	312.5	459.4	597	200.0	368.8	65.6	598	200.0	368.8	0.0
599	200.0	368.8	131.2	600	200.0	368.8	196.9	601	200.0	368.8	262.5
602	200.0	368.8	328.1	603	200.0	368.8	393.8	604	200.0	368.8	459.4
605	200.0	425.0	65.6	606	200.0	425.0	0.0	607	200.0	425.0	131.2
608	200.0	425.0	196.9	609	200.0	425.0	262.5	610	200.0	425.0	328.1
611	200.0	425.0	393.8	612	200.0	425.0	459.4	613	200.0	481.2	65.6
614	200.0	481.2	0.0	615	200.0	481.2	131.2	616	200.0	481.2	196.9
617	200.0	481.2	262.5	618	200.0	481.2	328.1	619	200.0	481.2	393.8
620	200.0	481.2	459.4	621	200.0	537.5	65.6	622	200.0	537.5	0.0
623	200.0	537.5	131.2	624	200.0	537.5	196.9	625	200.0	537.5	262.5
626	200.0	537.5	328.1	627	200.0	537.5	393.8	628	200.0	537.5	459.4
629	200.0	593.8	65.6	630	200.0	593.8	0.0	631	200.0	593.8	131.2
632	200.0	593.8	196.9	633	200.0	593.8	262.5	634	200.0	593.8	328.1
635	200.0	593.8	393.8	636	200.0	593.8	459.4	637	200.0	1100.0	0.0
638	537.5	1100.0	525.0	639	1685.0	1100.0	0.0	640	807.5	1100.0	525.0
641	200.0	1100.0	525.0	642	470.0	1100.0	525.0	643	1685.0	1100.0	525.0
644	875.0	1100.0	525.0	645	1010.0	150.0	0.0	646	1077.5	150.0	0.0
647	1145.0	150.0	0.0	648	1212.5	150.0	0.0	649	200.0	1100.0	65.6
650	267.5	1100.0	65.6	651	267.5	1100.0	0.0	652	200.0	1100.0	131.2
653	267.5	1100.0	131.2	654	200.0	1100.0	196.9	655	267.5	1100.0	196.9
656	200.0	1100.0	262.5	657	267.5	1100.0	262.5	658	200.0	1100.0	328.1
659	267.5	1100.0	328.1	660	200.0	1100.0	393.8	661	267.5	1100.0	393.8
662	200.0	1100.0	459.4	663	267.5	1100.0	459.4	664	267.5	1100.0	525.0
665	335.0	1100.0	65.6	666	335.0	1100.0	0.0	667	335.0	1100.0	131.2
668	335.0	1100.0	196.9	669	335.0	1100.0	262.5	670	335.0	1100.0	328.1
671	335.0	1100.0	393.8	672	335.0	1100.0	459.4	673	335.0	1100.0	525.0
674	402.5	1100.0	65.6	675	402.5	1100.0	0.0	676	402.5	1100.0	131.2

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
677	402.5	1100.0	196.9	678	402.5	1100.0	262.5	679	402.5	1100.0	328.1
680	402.5	1100.0	393.8	681	402.5	1100.0	459.4	682	402.5	1100.0	525.0
683	470.0	1100.0	65.6	684	470.0	1100.0	0.0	685	470.0	1100.0	131.2
686	470.0	1100.0	196.9	687	470.0	1100.0	262.5	688	470.0	1100.0	328.1
689	470.0	1100.0	393.8	690	470.0	1100.0	459.4	691	537.5	1100.0	65.6
692	537.5	1100.0	0.0	693	537.5	1100.0	131.2	694	537.5	1100.0	196.9
695	537.5	1100.0	262.5	696	537.5	1100.0	328.1	697	537.5	1100.0	393.8
698	537.5	1100.0	459.4	699	605.0	1100.0	65.6	700	605.0	1100.0	0.0
701	605.0	1100.0	131.2	702	605.0	1100.0	196.9	703	605.0	1100.0	262.5
704	605.0	1100.0	328.1	705	605.0	1100.0	393.8	706	605.0	1100.0	459.4
707	605.0	1100.0	525.0	708	672.5	1100.0	65.6	709	672.5	1100.0	0.0
710	672.5	1100.0	131.2	711	672.5	1100.0	196.9	712	672.5	1100.0	262.5
713	672.5	1100.0	328.1	714	672.5	1100.0	393.8	715	672.5	1100.0	459.4
716	672.5	1100.0	525.0	717	740.0	1100.0	65.6	718	740.0	1100.0	0.0
719	740.0	1100.0	131.2	720	740.0	1100.0	196.9	721	740.0	1100.0	262.5
722	740.0	1100.0	328.1	723	740.0	1100.0	393.8	724	740.0	1100.0	459.4
725	740.0	1100.0	525.0	726	807.5	1100.0	65.6	727	807.5	1100.0	0.0
728	807.5	1100.0	131.2	729	807.5	1100.0	196.9	730	807.5	1100.0	262.5
731	807.5	1100.0	328.1	732	807.5	1100.0	393.8	733	807.5	1100.0	459.4
734	875.0	1100.0	65.6	735	875.0	1100.0	0.0	736	875.0	1100.0	131.2
737	875.0	1100.0	196.9	738	875.0	1100.0	262.5	739	875.0	1100.0	328.1
740	875.0	1100.0	393.8	741	875.0	1100.0	459.4	742	942.5	1100.0	65.6
743	942.5	1100.0	0.0	744	942.5	1100.0	131.2	745	942.5	1100.0	196.9
746	942.5	1100.0	262.5	747	942.5	1100.0	328.1	748	942.5	1100.0	393.8
749	942.5	1100.0	459.4	750	942.5	1100.0	525.0	751	1010.0	1100.0	65.6
752	1010.0	1100.0	0.0	753	1010.0	1100.0	131.2	754	1010.0	1100.0	196.9
755	1010.0	1100.0	262.5	756	1010.0	1100.0	328.1	757	1010.0	1100.0	393.8
758	1010.0	1100.0	459.4	759	1010.0	1100.0	525.0	760	1077.5	1100.0	65.6
761	1077.5	1100.0	0.0	762	1077.5	1100.0	131.2	763	1077.5	1100.0	196.9
764	1077.5	1100.0	262.5	765	1077.5	1100.0	328.1	766	1077.5	1100.0	393.8
767	1077.5	1100.0	459.4	768	1077.5	1100.0	525.0	769	1145.0	1100.0	65.6
770	1145.0	1100.0	0.0	771	1145.0	1100.0	131.2	772	1145.0	1100.0	196.9
773	1145.0	1100.0	262.5	774	1145.0	1100.0	328.1	775	1145.0	1100.0	393.8
776	1145.0	1100.0	459.4	777	1145.0	1100.0	525.0	778	1212.5	1100.0	65.6
779	1212.5	1100.0	0.0	780	1212.5	1100.0	131.2	781	1212.5	1100.0	196.9
782	1212.5	1100.0	262.5	783	1212.5	1100.0	328.1	784	1212.5	1100.0	393.8
785	1212.5	1100.0	459.4	786	1212.5	1100.0	525.0	787	1280.0	1100.0	65.6
788	1280.0	1100.0	0.0	789	1280.0	1100.0	131.2	790	1280.0	1100.0	196.9
791	1280.0	1100.0	262.5	792	1280.0	1100.0	328.1	793	1280.0	1100.0	393.8
794	1280.0	1100.0	459.4	795	1280.0	1100.0	525.0	796	1347.5	1100.0	65.6
797	1347.5	1100.0	0.0	798	1347.5	1100.0	131.2	799	1347.5	1100.0	196.9
800	1347.5	1100.0	262.5	801	1347.5	1100.0	328.1	802	1347.5	1100.0	393.8
803	1347.5	1100.0	459.4	804	1415.0	1100.0	65.6	805	1415.0	1100.0	0.0
806	1415.0	1100.0	131.2	807	1415.0	1100.0	196.9	808	1415.0	1100.0	262.5
809	1415.0	1100.0	328.1	810	1415.0	1100.0	393.8	811	1415.0	1100.0	459.4
812	1415.0	1100.0	525.0	813	1482.5	1100.0	65.6	814	1482.5	1100.0	0.0
815	1482.5	1100.0	131.2	816	1482.5	1100.0	196.9	817	1482.5	1100.0	262.5
818	1482.5	1100.0	328.1	819	1482.5	1100.0	393.8	820	1482.5	1100.0	459.4
821	1482.5	1100.0	525.0	822	1550.0	1100.0	65.6	823	1550.0	1100.0	0.0
824	1550.0	1100.0	131.2	825	1550.0	1100.0	196.9	826	1550.0	1100.0	262.5
827	1550.0	1100.0	328.1	828	1550.0	1100.0	393.8	829	1550.0	1100.0	459.4
830	1550.0	1100.0	525.0	831	1617.5	1100.0	65.6	832	1617.5	1100.0	0.0
833	1617.5	1100.0	131.2	834	1617.5	1100.0	196.9	835	1617.5	1100.0	262.5
836	1617.5	1100.0	328.1	837	1617.5	1100.0	393.8	838	1617.5	1100.0	459.4
839	1617.5	1100.0	525.0	840	1685.0	1100.0	65.6	841	1685.0	1100.0	131.2
842	1685.0	1100.0	196.9	843	1685.0	1100.0	262.5	844	1685.0	1100.0	328.1
845	1685.0	1100.0	393.8	846	1685.0	1100.0	459.4	847	1347.5	1100.0	525.0
848	1280.0	150.0	0.0	849	200.0	706.2	525.0	850	267.5	706.2	525.0
851	200.0	762.5	525.0	852	267.5	762.5	525.0	853	200.0	818.8	525.0
854	267.5	818.8	525.0	855	200.0	875.0	525.0	856	267.5	875.0	525.0
857	200.0	931.2	525.0	858	267.5	931.2	525.0	859	200.0	987.5	525.0
860	267.5	987.5	525.0	861	200.0	1043.8	525.0	862	267.5	1043.8	525.0
863	335.0	706.2	525.0	864	335.0	762.5	525.0	865	335.0	818.8	525.0
866	335.0	875.0	525.0	867	335.0	931.2	525.0	868	335.0	987.5	525.0
869	335.0	1043.8	525.0	870	402.5	706.2	525.0	871	402.5	762.5	525.0
872	402.5	818.8	525.0	873	402.5	875.0	525.0	874	402.5	931.2	525.0
875	402.5	987.5	525.0	876	402.5	1043.8	525.0	877	470.0	706.2	525.0
878	470.0	762.5	525.0	879	470.0	818.8	525.0	880	470.0	875.0	525.0
881	470.0	931.2	525.0	882	470.0	987.5	525.0	883	470.0	1043.8	525.0
884	537.5	706.2	525.0	885	537.5	762.5	525.0	886	537.5	818.8	525.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
887	537.5	875.0	525.0	888	537.5	931.2	525.0	889	537.5	987.5	525.0
890	537.5	1043.8	525.0	891	605.0	706.2	525.0	892	605.0	762.5	525.0
893	605.0	818.8	525.0	894	605.0	875.0	525.0	895	605.0	931.2	525.0
896	605.0	987.5	525.0	897	605.0	1043.8	525.0	898	672.5	706.2	525.0
899	672.5	762.5	525.0	900	672.5	818.8	525.0	901	672.5	875.0	525.0
902	672.5	931.2	525.0	903	672.5	987.5	525.0	904	672.5	1043.8	525.0
905	740.0	706.2	525.0	906	740.0	762.5	525.0	907	740.0	818.8	525.0
908	740.0	875.0	525.0	909	740.0	931.2	525.0	910	740.0	987.5	525.0
911	740.0	1043.8	525.0	912	807.5	706.2	525.0	913	807.5	762.5	525.0
914	807.5	818.8	525.0	915	807.5	875.0	525.0	916	807.5	931.2	525.0
917	807.5	987.5	525.0	918	807.5	1043.8	525.0	919	875.0	706.2	525.0
920	875.0	762.5	525.0	921	875.0	818.8	525.0	922	875.0	875.0	525.0
923	875.0	931.2	525.0	924	875.0	987.5	525.0	925	875.0	1043.8	525.0
926	942.5	706.2	525.0	927	942.5	762.5	525.0	928	942.5	818.8	525.0
929	942.5	875.0	525.0	930	942.5	931.2	525.0	931	942.5	987.5	525.0
932	942.5	1043.8	525.0	933	1010.0	706.2	525.0	934	1010.0	762.5	525.0
935	1010.0	818.8	525.0	936	1010.0	875.0	525.0	937	1010.0	931.2	525.0
938	1010.0	987.5	525.0	939	1010.0	1043.8	525.0	940	1077.5	706.2	525.0
941	1077.5	762.5	525.0	942	1077.5	818.8	525.0	943	1077.5	875.0	525.0
944	1077.5	931.2	525.0	945	1077.5	987.5	525.0	946	1077.5	1043.8	525.0
947	1145.0	706.2	525.0	948	1145.0	762.5	525.0	949	1145.0	818.8	525.0
950	1145.0	875.0	525.0	951	1145.0	931.2	525.0	952	1145.0	987.5	525.0
953	1145.0	1043.8	525.0	954	1212.5	706.2	525.0	955	1212.5	762.5	525.0
956	1212.5	818.8	525.0	957	1212.5	875.0	525.0	958	1212.5	931.2	525.0
959	1212.5	987.5	525.0	960	1212.5	1043.8	525.0	961	1280.0	706.2	525.0
962	1280.0	762.5	525.0	963	1280.0	818.8	525.0	964	1280.0	875.0	525.0
965	1280.0	931.2	525.0	966	1280.0	987.5	525.0	967	1280.0	1043.8	525.0
968	1347.5	706.2	525.0	969	1347.5	762.5	525.0	970	1347.5	818.8	525.0
971	1347.5	875.0	525.0	972	1347.5	931.2	525.0	973	1347.5	987.5	525.0
974	1347.5	1043.8	525.0	975	1415.0	706.2	525.0	976	1415.0	762.5	525.0
977	1415.0	818.8	525.0	978	1415.0	875.0	525.0	979	1415.0	931.2	525.0
980	1415.0	987.5	525.0	981	1415.0	1043.8	525.0	982	1482.5	706.2	525.0
983	1482.5	762.5	525.0	984	1482.5	818.8	525.0	985	1482.5	875.0	525.0
986	1482.5	931.2	525.0	987	1482.5	987.5	525.0	988	1482.5	1043.8	525.0
989	1550.0	706.2	525.0	990	1550.0	762.5	525.0	991	1550.0	818.8	525.0
992	1550.0	875.0	525.0	993	1550.0	931.2	525.0	994	1550.0	987.5	525.0
995	1550.0	1043.8	525.0	996	1617.5	706.2	525.0	997	1617.5	762.5	525.0
998	1617.5	818.8	525.0	999	1617.5	875.0	525.0	1000	1617.5	931.2	525.0
1001	1617.5	987.5	525.0	1002	1617.5	1043.8	525.0	1003	1685.0	706.2	525.0
1004	1685.0	762.5	525.0	1005	1685.0	818.8	525.0	1006	1685.0	875.0	525.0
1007	1685.0	931.2	525.0	1008	1685.0	987.5	525.0	1009	1685.0	1043.8	525.0
1010	200.0	706.2	65.6	1011	200.0	706.2	0.0	1012	200.0	706.2	131.2
1013	200.0	706.2	196.9	1014	200.0	706.2	262.5	1015	200.0	706.2	328.1
1016	200.0	706.2	393.8	1017	200.0	706.2	459.4	1018	200.0	762.5	65.6
1019	200.0	762.5	0.0	1020	200.0	762.5	131.2	1021	200.0	762.5	196.9
1022	200.0	762.5	262.5	1023	200.0	762.5	328.1	1024	200.0	762.5	393.8
1025	200.0	762.5	459.4	1026	200.0	818.8	65.6	1027	200.0	818.8	0.0
1028	200.0	818.8	131.2	1029	200.0	818.8	196.9	1030	200.0	818.8	262.5
1031	200.0	818.8	328.1	1032	200.0	818.8	393.8	1033	200.0	818.8	459.4
1034	200.0	875.0	65.6	1035	200.0	875.0	0.0	1036	200.0	875.0	131.2
1037	200.0	875.0	196.9	1038	200.0	875.0	262.5	1039	200.0	875.0	328.1
1040	200.0	875.0	393.8	1041	200.0	875.0	459.4	1042	200.0	931.2	65.6
1043	200.0	931.2	0.0	1044	200.0	931.2	131.2	1045	200.0	931.2	196.9
1046	200.0	931.2	262.5	1047	200.0	931.2	328.1	1048	200.0	931.2	393.8
1049	200.0	931.2	459.4	1050	200.0	987.5	65.6	1051	200.0	987.5	0.0
1052	200.0	987.5	131.2	1053	200.0	987.5	196.9	1054	200.0	987.5	262.5
1055	200.0	987.5	328.1	1056	200.0	987.5	393.8	1057	200.0	987.5	459.4
1058	200.0	1043.8	65.6	1059	200.0	1043.8	0.0	1060	200.0	1043.8	131.2
1061	200.0	1043.8	196.9	1062	200.0	1043.8	262.5	1063	200.0	1043.8	328.1
1064	200.0	1043.8	393.8	1065	200.0	1043.8	459.4	1066	267.5	256.2	0.0
1067	252.5	312.5	0.0	1068	267.5	368.8	0.0	1069	267.5	425.0	0.0
1070	267.5	481.2	0.0	1071	267.5	537.5	0.0	1072	267.5	593.8	0.0
1073	335.0	256.2	0.0	1074	350.0	312.5	0.0	1075	335.0	368.8	0.0
1076	335.0	425.0	0.0	1077	335.0	481.2	0.0	1078	335.0	537.5	0.0
1079	335.0	593.8	0.0	1080	402.5	256.2	0.0	1081	402.5	312.5	0.0
1082	402.5	368.8	0.0	1083	402.5	425.0	0.0	1084	402.5	481.2	0.0
1085	402.5	537.5	0.0	1086	402.5	593.8	0.0	1087	470.0	256.2	0.0
1088	470.0	312.5	0.0	1089	470.0	368.8	0.0	1090	470.0	425.0	0.0
1091	470.0	481.2	0.0	1092	470.0	537.5	0.0	1093	470.0	593.8	0.0
1094	537.5	256.2	0.0	1095	537.5	312.5	0.0	1096	537.5	368.8	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 30 di 378

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1097	537.5	425.0	0.0	1098	537.5	481.2	0.0	1099	537.5	537.5	0.0
1100	537.5	593.8	0.0	1101	605.0	256.2	0.0	1102	605.0	312.5	0.0
1103	605.0	368.8	0.0	1104	605.0	425.0	0.0	1105	605.0	481.2	0.0
1106	605.0	537.5	0.0	1107	605.0	593.8	0.0	1108	672.5	256.2	0.0
1109	672.5	312.5	0.0	1110	672.5	368.8	0.0	1111	672.5	425.0	0.0
1112	672.5	481.2	0.0	1113	672.5	537.5	0.0	1114	672.5	593.8	0.0
1115	740.0	256.2	0.0	1117	740.0	368.8	0.0	1118	740.0	425.0	0.0
1119	740.0	481.2	0.0	1120	740.0	537.5	0.0	1121	740.0	593.8	0.0
1122	807.5	256.2	0.0	1123	807.5	312.5	0.0	1124	807.5	368.8	0.0
1125	807.5	425.0	0.0	1126	807.5	481.2	0.0	1127	807.5	537.5	0.0
1128	807.5	593.8	0.0	1129	875.0	256.2	0.0	1130	875.0	312.5	0.0
1131	875.0	368.8	0.0	1132	875.0	425.0	0.0	1133	875.0	481.2	0.0
1134	875.0	537.5	0.0	1135	875.0	593.8	0.0	1136	942.5	256.2	0.0
1137	942.5	312.5	0.0	1138	942.5	368.8	0.0	1139	942.5	425.0	0.0
1140	942.5	481.2	0.0	1141	942.5	537.5	0.0	1142	942.5	593.8	0.0
1143	1010.0	256.2	0.0	1144	1010.0	312.5	0.0	1145	1010.0	368.8	0.0
1146	1010.0	425.0	0.0	1147	1010.0	481.2	0.0	1148	1010.0	537.5	0.0
1149	1010.0	593.8	0.0	1150	1077.5	256.2	0.0	1151	1077.5	312.5	0.0
1152	1077.5	368.8	0.0	1153	1077.5	425.0	0.0	1154	1077.5	481.2	0.0
1155	1077.5	537.5	0.0	1156	1077.5	593.8	0.0	1157	1145.0	256.2	0.0
1158	1145.0	312.5	0.0	1159	1145.0	368.8	0.0	1160	1145.0	425.0	0.0
1161	1145.0	481.2	0.0	1162	1145.0	537.5	0.0	1163	1145.0	593.8	0.0
1164	1212.5	256.2	0.0	1166	1212.5	368.8	0.0	1167	1212.5	425.0	0.0
1168	1212.5	481.2	0.0	1169	1212.5	537.5	0.0	1170	1212.5	593.8	0.0
1171	1280.0	256.2	0.0	1172	1280.0	312.5	0.0	1173	1280.0	368.8	0.0
1174	1280.0	425.0	0.0	1175	1280.0	481.2	0.0	1176	1280.0	537.5	0.0
1177	1280.0	593.8	0.0	1178	1347.5	256.2	0.0	1179	1347.5	312.5	0.0
1180	1347.5	368.8	0.0	1181	1347.5	425.0	0.0	1182	1347.5	481.2	0.0
1183	1347.5	537.5	0.0	1184	1347.5	593.8	0.0	1185	1415.0	256.2	0.0
1186	1415.0	312.5	0.0	1187	1415.0	368.8	0.0	1188	1415.0	425.0	0.0
1189	1415.0	481.2	0.0	1190	1415.0	537.5	0.0	1191	1415.0	593.8	0.0
1192	1482.5	256.2	0.0	1193	1482.5	312.5	0.0	1194	1482.5	368.8	0.0
1195	1482.5	425.0	0.0	1196	1482.5	481.2	0.0	1197	1482.5	537.5	0.0
1198	1482.5	593.8	0.0	1199	1550.0	256.2	0.0	1200	1550.0	312.5	0.0
1201	1550.0	368.8	0.0	1202	1550.0	425.0	0.0	1203	1550.0	481.2	0.0
1204	1550.0	537.5	0.0	1205	1550.0	593.8	0.0	1206	1617.5	256.2	0.0
1208	1617.5	368.8	0.0	1209	1617.5	425.0	0.0	1210	1617.5	481.2	0.0
1211	1617.5	537.5	0.0	1212	1617.5	593.8	0.0	1213	1685.0	256.2	0.0
1214	1685.0	312.5	0.0	1215	1685.0	368.8	0.0	1216	1685.0	425.0	0.0
1217	1685.0	481.2	0.0	1218	1685.0	537.5	0.0	1219	1685.0	593.8	0.0
1220	267.5	706.2	0.0	1221	267.5	762.5	0.0	1222	267.5	818.8	0.0
1223	267.5	875.0	0.0	1224	267.5	931.2	0.0	1225	267.5	987.5	0.0
1226	267.5	1043.8	0.0	1227	335.0	706.2	0.0	1228	335.0	762.5	0.0
1229	335.0	818.8	0.0	1230	335.0	875.0	0.0	1231	335.0	931.2	0.0
1232	335.0	987.5	0.0	1233	335.0	1043.8	0.0	1234	402.5	706.2	0.0
1235	402.5	762.5	0.0	1236	402.5	818.8	0.0	1237	402.5	875.0	0.0
1238	402.5	931.2	0.0	1239	402.5	987.5	0.0	1240	402.5	1043.8	0.0
1241	470.0	706.2	0.0	1242	470.0	762.5	0.0	1243	470.0	818.8	0.0
1244	470.0	875.0	0.0	1245	470.0	931.2	0.0	1246	470.0	987.5	0.0
1247	470.0	1043.8	0.0	1248	537.5	706.2	0.0	1249	537.5	762.5	0.0
1250	537.5	818.8	0.0	1251	537.5	875.0	0.0	1252	537.5	931.2	0.0
1253	537.5	987.5	0.0	1254	537.5	1043.8	0.0	1255	605.0	706.2	0.0
1256	605.0	762.5	0.0	1257	605.0	818.8	0.0	1258	605.0	875.0	0.0
1259	605.0	931.2	0.0	1260	605.0	987.5	0.0	1261	605.0	1043.8	0.0
1262	672.5	706.2	0.0	1263	672.5	762.5	0.0	1264	672.5	818.8	0.0
1265	672.5	875.0	0.0	1266	672.5	931.2	0.0	1267	672.5	987.5	0.0
1268	672.5	1043.8	0.0	1269	740.0	706.2	0.0	1270	740.0	762.5	0.0
1271	740.0	818.8	0.0	1272	740.0	875.0	0.0	1273	740.0	931.2	0.0
1274	740.0	987.5	0.0	1276	807.5	706.2	0.0	1277	807.5	762.5	0.0
1278	807.5	818.8	0.0	1279	807.5	875.0	0.0	1280	807.5	931.2	0.0
1281	807.5	987.5	0.0	1282	807.5	1043.8	0.0	1283	875.0	706.2	0.0
1284	875.0	762.5	0.0	1285	875.0	818.8	0.0	1286	875.0	875.0	0.0
1287	875.0	931.2	0.0	1288	875.0	987.5	0.0	1289	875.0	1043.8	0.0
1290	942.5	706.2	0.0	1291	942.5	762.5	0.0	1292	942.5	818.8	0.0
1293	942.5	875.0	0.0	1294	942.5	931.2	0.0	1295	942.5	987.5	0.0
1296	942.5	1043.8	0.0	1297	1010.0	706.2	0.0	1298	1010.0	762.5	0.0
1299	1010.0	818.8	0.0	1300	1010.0	875.0	0.0	1301	1010.0	931.2	0.0
1302	1010.0	987.5	0.0	1303	1010.0	1043.8	0.0	1304	1077.5	706.2	0.0
1305	1077.5	762.5	0.0	1306	1077.5	818.8	0.0	1307	1077.5	875.0	0.0
1308	1077.5	931.2	0.0	1309	1077.5	987.5	0.0	1310	1077.5	1043.8	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 31 di 378

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
1311	1145.0	706.2	0.0	1312	1145.0	762.5	0.0	1313	1145.0	818.8	0.0
1314	1145.0	875.0	0.0	1315	1145.0	931.2	0.0	1316	1145.0	987.5	0.0
1317	1145.0	1043.8	0.0	1318	1212.5	706.2	0.0	1319	1212.5	762.5	0.0
1320	1212.5	818.8	0.0	1321	1212.5	875.0	0.0	1322	1212.5	931.2	0.0
1323	1212.5	987.5	0.0	1325	1280.0	706.2	0.0	1326	1280.0	762.5	0.0
1327	1280.0	818.8	0.0	1328	1280.0	875.0	0.0	1329	1280.0	931.2	0.0
1330	1280.0	987.5	0.0	1331	1280.0	1043.8	0.0	1332	1347.5	706.2	0.0
1333	1347.5	762.5	0.0	1334	1347.5	818.8	0.0	1335	1347.5	875.0	0.0
1336	1347.5	931.2	0.0	1337	1347.5	987.5	0.0	1338	1347.5	1043.8	0.0
1339	1415.0	706.2	0.0	1340	1415.0	762.5	0.0	1341	1415.0	818.8	0.0
1342	1415.0	875.0	0.0	1343	1415.0	931.2	0.0	1344	1415.0	987.5	0.0
1345	1415.0	1043.8	0.0	1346	1482.5	706.2	0.0	1347	1482.5	762.5	0.0
1348	1482.5	818.8	0.0	1349	1482.5	875.0	0.0	1350	1482.5	931.2	0.0
1351	1482.5	987.5	0.0	1352	1482.5	1043.8	0.0	1353	1550.0	706.2	0.0
1354	1550.0	762.5	0.0	1355	1550.0	818.8	0.0	1356	1550.0	875.0	0.0
1357	1550.0	931.2	0.0	1358	1550.0	987.5	0.0	1359	1550.0	1043.8	0.0
1360	1617.5	706.2	0.0	1361	1617.5	762.5	0.0	1362	1617.5	818.8	0.0
1363	1617.5	875.0	0.0	1364	1617.5	931.2	0.0	1365	1617.5	987.5	0.0
1367	1685.0	706.2	0.0	1368	1685.0	762.5	0.0	1369	1685.0	818.8	0.0
1370	1685.0	875.0	0.0	1371	1685.0	931.2	0.0	1372	1685.0	987.5	0.0
1373	1685.0	1043.8	0.0	1374	1735.0	200.0	0.0	1375	1735.0	650.0	0.0
1376	1347.5	150.0	0.0	1377	1415.0	150.0	0.0	1378	1735.0	1100.0	0.0
1379	1482.5	150.0	0.0	1380	1550.0	150.0	0.0	1381	1735.0	256.2	0.0
1382	1735.0	312.5	0.0	1383	1735.0	368.8	0.0	1384	1735.0	425.0	0.0
1385	1735.0	481.2	0.0	1386	1735.0	537.5	0.0	1387	1735.0	593.8	0.0
1388	1735.0	706.2	0.0	1389	1735.0	762.5	0.0	1390	1735.0	818.8	0.0
1391	1735.0	875.0	0.0	1392	1735.0	931.2	0.0	1393	1735.0	987.5	0.0
1394	1735.0	1043.8	0.0	1395	150.0	200.0	0.0	1396	150.0	650.0	0.0
1397	1617.5	150.0	0.0	1398	150.0	256.2	0.0	1399	150.0	312.5	0.0
1400	150.0	368.8	0.0	1401	150.0	425.0	0.0	1402	150.0	481.2	0.0
1403	150.0	537.5	0.0	1404	150.0	593.8	0.0	1405	150.0	1100.0	0.0
1406	1735.0	1150.0	0.0	1407	150.0	706.2	0.0	1408	150.0	762.5	0.0
1409	150.0	818.8	0.0	1410	150.0	875.0	0.0	1411	150.0	931.2	0.0
1412	150.0	987.5	0.0	1413	150.0	1043.8	0.0	1414	200.0	1150.0	0.0
1415	1685.0	1150.0	0.0	1416	150.0	1150.0	0.0	1417	1735.0	150.0	0.0
1418	267.5	1150.0	0.0	1419	335.0	1150.0	0.0	1420	402.5	1150.0	0.0
1421	470.0	1150.0	0.0	1422	537.5	1150.0	0.0	1423	605.0	1150.0	0.0
1424	672.5	1150.0	0.0	1425	740.0	1150.0	0.0	1426	807.5	1150.0	0.0
1427	875.0	1150.0	0.0	1428	942.5	1150.0	0.0	1429	1010.0	1150.0	0.0
1430	1077.5	1150.0	0.0	1431	1145.0	1150.0	0.0	1432	1212.5	1150.0	0.0
1433	1280.0	1150.0	0.0	1434	1347.5	1150.0	0.0	1435	1415.0	1150.0	0.0
1436	1482.5	1150.0	0.0	1437	1550.0	1150.0	0.0	1438	1617.5	1150.0	0.0
1439	150.0	150.0	0.0	1440	200.0	150.0	0.0	1441	1685.0	150.0	0.0
1442	267.5	150.0	0.0	1443	335.0	150.0	0.0	1444	402.5	150.0	0.0
1445	470.0	150.0	0.0	1446	537.5	150.0	0.0	1447	605.0	150.0	0.0

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
222	300.0	650.0	0.0	FS=4						
289	743.0	650.0	0.0	FS=4						
350	1186.0	650.0	0.0	FS=4						
403	1629.0	650.0	0.0	FS=4						
1116	743.0	300.0	0.0	FS=4						
1165	1186.0	300.0	0.0	FS=4						
1207	1629.0	300.0	0.0	FS=4						
1275	743.0	1030.0	0.0	FS=4						
1324	1186.0	1030.0	0.0	FS=4						
1366	1629.0	1030.0	0.0	FS=4						
1448	300.0	300.0	0.0	FS=4						
1449	300.0	1030.0	0.0	FS=4						

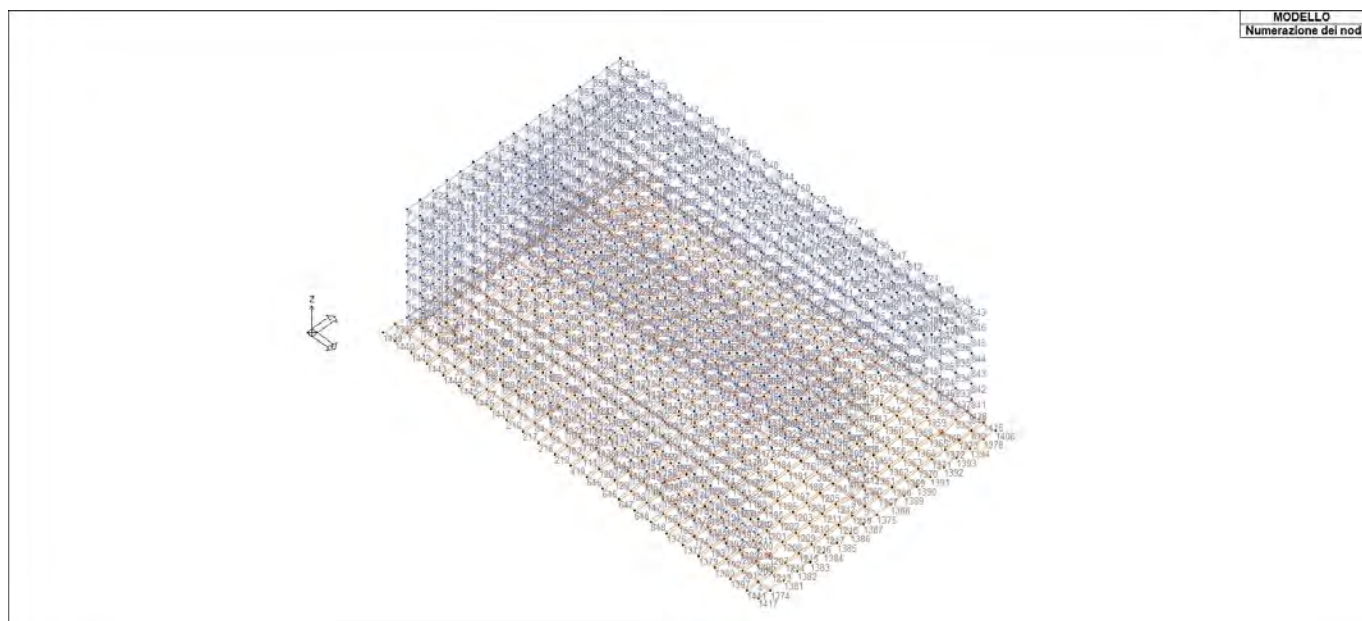
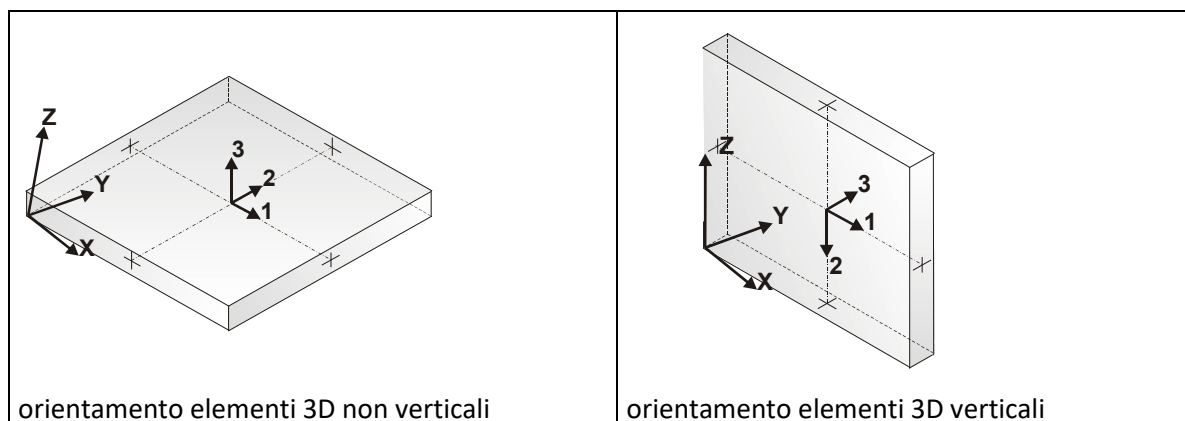


Figura 7 - MOD_NUMERAZIONE_NODI

7 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

7.1 LEGENDA TABELLA DATI SHELL

Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell. Ogni elemento shell è individuato dai nodi I, J, K, L (L=I per gli elementi a tre nodi). Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: <i>Guscio</i> (elemento guscio in elevazione non verticale) <i>Guscio fond.</i> (elemento guscio su suolo elastico) <i>Setto</i> (elemento guscio in elevazione verticale) <i>Membrana</i> (elemento guscio con comportamento membranale)
Nodo I (J, K, L)	numero del nodo I (J, K, L)
Mat.	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
								cm		daN/cm3	daN/cm3
1	Setto	13	14	15	1	5	3	30.0			
2	Setto	16	17	14	13	5	3	30.0			
3	Setto	18	19	17	16	5	3	30.0			
4	Setto	20	21	19	18	5	3	30.0			
5	Setto	22	23	21	20	5	3	30.0			
6	Setto	24	25	23	22	5	3	30.0			
7	Setto	26	27	25	24	5	3	30.0			
8	Setto	7	28	27	26	5	3	30.0			
9	Setto	14	29	30	15	5	3	30.0			
10	Setto	17	31	29	14	5	3	30.0			
11	Setto	19	32	31	17	5	3	30.0			
12	Setto	21	33	32	19	5	3	30.0			
13	Setto	23	34	33	21	5	3	30.0			
14	Setto	25	35	34	23	5	3	30.0			
15	Setto	27	36	35	25	5	3	30.0			
16	Setto	28	37	36	27	5	3	30.0			
17	Setto	29	38	39	30	5	3	30.0			
18	Setto	31	40	38	29	5	3	30.0			
19	Setto	32	41	40	31	5	3	30.0			
20	Setto	33	42	41	32	5	3	30.0			
21	Setto	34	43	42	33	5	3	30.0			
22	Setto	35	44	43	34	5	3	30.0			
23	Setto	36	45	44	35	5	3	30.0			
24	Setto	37	46	45	36	5	3	30.0			
25	Setto	38	47	48	39	5	3	30.0			
26	Setto	40	49	47	38	5	3	30.0			
27	Setto	41	50	49	40	5	3	30.0			
28	Setto	42	51	50	41	5	3	30.0			
29	Setto	43	52	51	42	5	3	30.0			
30	Setto	44	53	52	43	5	3	30.0			
31	Setto	45	54	53	44	5	3	30.0			
32	Setto	46	55	54	45	5	3	30.0			
33	Setto	47	56	57	48	5	3	30.0			
34	Setto	49	58	56	47	5	3	30.0			
35	Setto	50	59	58	49	5	3	30.0			
36	Setto	51	60	59	50	5	3	30.0			
37	Setto	52	61	60	51	5	3	30.0			
38	Setto	53	62	61	52	5	3	30.0			
39	Setto	54	63	62	53	5	3	30.0			
40	Setto	55	64	63	54	5	3	30.0			
41	Setto	56	65	66	57	5	3	30.0			
42	Setto	58	67	65	56	5	3	30.0			
43	Setto	59	68	67	58	5	3	30.0			
44	Setto	60	69	68	59	5	3	30.0			
45	Setto	61	70	69	60	5	3	30.0			
46	Setto	62	71	70	61	5	3	30.0			
47	Setto	63	72	71	62	5	3	30.0			
48	Setto	64	73	72	63	5	3	30.0			
49	Setto	65	74	75	66	5	3	30.0			
50	Setto	67	76	74	65	5	3	30.0			
51	Setto	68	77	76	67	5	3	30.0			
52	Setto	69	78	77	68	5	3	30.0			
53	Setto	70	79	78	69	5	3	30.0			
54	Setto	71	80	79	70	5	3	30.0			
55	Setto	72	81	80	71	5	3	30.0			
56	Setto	73	82	81	72	5	3	30.0			
57	Setto	74	83	84	75	5	3	30.0			
58	Setto	76	85	83	74	5	3	30.0			
59	Setto	77	86	85	76	5	3	30.0			
60	Setto	78	87	86	77	5	3	30.0			
61	Setto	79	88	87	78	5	3	30.0			
62	Setto	80	89	88	79	5	3	30.0			
63	Setto	81	90	89	80	5	3	30.0			
64	Setto	82	91	90	81	5	3	30.0			
65	Setto	83	92	93	84	5	3	30.0			
66	Setto	85	94	92	83	5	3	30.0			
67	Setto	86	95	94	85	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
68	Setto	87	96	95	86	5	3	30.0			
69	Setto	88	97	96	87	5	3	30.0			
70	Setto	89	98	97	88	5	3	30.0			
71	Setto	90	99	98	89	5	3	30.0			
72	Setto	91	100	99	90	5	3	30.0			
73	Setto	92	101	102	93	5	3	30.0			
74	Setto	94	103	101	92	5	3	30.0			
75	Setto	95	104	103	94	5	3	30.0			
76	Setto	96	105	104	95	5	3	30.0			
77	Setto	97	106	105	96	5	3	30.0			
78	Setto	98	107	106	97	5	3	30.0			
79	Setto	99	108	107	98	5	3	30.0			
80	Setto	100	109	108	99	5	3	30.0			
81	Setto	101	110	111	102	5	3	30.0			
82	Setto	103	112	110	101	5	3	30.0			
83	Setto	104	113	112	103	5	3	30.0			
84	Setto	105	114	113	104	5	3	30.0			
85	Setto	106	115	114	105	5	3	30.0			
86	Setto	107	116	115	106	5	3	30.0			
87	Setto	108	117	116	107	5	3	30.0			
88	Setto	109	118	117	108	5	3	30.0			
89	Setto	110	119	120	111	5	3	30.0			
90	Setto	112	121	119	110	5	3	30.0			
91	Setto	113	122	121	112	5	3	30.0			
92	Setto	114	123	122	113	5	3	30.0			
93	Setto	115	124	123	114	5	3	30.0			
94	Setto	116	125	124	115	5	3	30.0			
95	Setto	117	126	125	116	5	3	30.0			
96	Setto	118	127	126	117	5	3	30.0			
97	Setto	119	128	129	120	5	3	30.0			
98	Setto	121	130	128	119	5	3	30.0			
99	Setto	122	131	130	121	5	3	30.0			
100	Setto	123	132	131	122	5	3	30.0			
101	Setto	124	133	132	123	5	3	30.0			
102	Setto	125	134	133	124	5	3	30.0			
103	Setto	126	135	134	125	5	3	30.0			
104	Setto	127	136	135	126	5	3	30.0			
105	Setto	128	137	138	129	5	3	30.0			
106	Setto	130	139	137	128	5	3	30.0			
107	Setto	131	140	139	130	5	3	30.0			
108	Setto	132	141	140	131	5	3	30.0			
109	Setto	133	142	141	132	5	3	30.0			
110	Setto	134	143	142	133	5	3	30.0			
111	Setto	135	144	143	134	5	3	30.0			
112	Setto	136	145	144	135	5	3	30.0			
113	Setto	137	146	147	138	5	3	30.0			
114	Setto	139	148	146	137	5	3	30.0			
115	Setto	140	149	148	139	5	3	30.0			
116	Setto	141	150	149	140	5	3	30.0			
117	Setto	142	151	150	141	5	3	30.0			
118	Setto	143	152	151	142	5	3	30.0			
119	Setto	144	153	152	143	5	3	30.0			
120	Setto	145	154	153	144	5	3	30.0			
121	Setto	146	155	156	147	5	3	30.0			
122	Setto	148	157	155	146	5	3	30.0			
123	Setto	149	158	157	148	5	3	30.0			
124	Setto	150	159	158	149	5	3	30.0			
125	Setto	151	160	159	150	5	3	30.0			
126	Setto	152	161	160	151	5	3	30.0			
127	Setto	153	162	161	152	5	3	30.0			
128	Setto	154	163	162	153	5	3	30.0			
129	Setto	155	164	165	156	5	3	30.0			
130	Setto	157	166	164	155	5	3	30.0			
131	Setto	158	167	166	157	5	3	30.0			
132	Setto	159	168	167	158	5	3	30.0			
133	Setto	160	169	168	159	5	3	30.0			
134	Setto	161	170	169	160	5	3	30.0			
135	Setto	162	171	170	161	5	3	30.0			
136	Setto	163	172	171	162	5	3	30.0			
137	Setto	164	173	174	165	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
138	Setto	166	175	173	164	5	3	30.0			
139	Setto	167	176	175	166	5	3	30.0			
140	Setto	168	177	176	167	5	3	30.0			
141	Setto	169	178	177	168	5	3	30.0			
142	Setto	170	179	178	169	5	3	30.0			
143	Setto	171	180	179	170	5	3	30.0			
144	Setto	172	181	180	171	5	3	30.0			
145	Setto	173	182	183	174	5	3	30.0			
146	Setto	175	184	182	173	5	3	30.0			
147	Setto	176	185	184	175	5	3	30.0			
148	Setto	177	186	185	176	5	3	30.0			
149	Setto	178	187	186	177	5	3	30.0			
150	Setto	179	188	187	178	5	3	30.0			
151	Setto	180	189	188	179	5	3	30.0			
152	Setto	181	190	189	180	5	3	30.0			
153	Setto	182	191	192	183	5	3	30.0			
154	Setto	184	193	191	182	5	3	30.0			
155	Setto	185	194	193	184	5	3	30.0			
156	Setto	186	195	194	185	5	3	30.0			
157	Setto	187	196	195	186	5	3	30.0			
158	Setto	188	197	196	187	5	3	30.0			
159	Setto	189	198	197	188	5	3	30.0			
160	Setto	190	199	198	189	5	3	30.0			
161	Setto	191	200	201	192	5	3	30.0			
162	Setto	193	202	200	191	5	3	30.0			
163	Setto	194	203	202	193	5	3	30.0			
164	Setto	195	204	203	194	5	3	30.0			
165	Setto	196	205	204	195	5	3	30.0			
166	Setto	197	206	205	196	5	3	30.0			
167	Setto	198	207	206	197	5	3	30.0			
168	Setto	199	208	207	198	5	3	30.0			
169	Setto	200	209	4	201	5	3	30.0			
170	Setto	202	210	209	200	5	3	30.0			
171	Setto	203	211	210	202	5	3	30.0			
172	Setto	204	212	211	203	5	3	30.0			
173	Setto	205	213	212	204	5	3	30.0			
174	Setto	206	214	213	205	5	3	30.0			
175	Setto	207	215	214	206	5	3	30.0			
176	Setto	208	10	215	207	5	3	30.0			
177	Setto	220	221	222	2	5	3	30.0			
178	Setto	223	224	221	220	5	3	30.0			
179	Setto	225	226	224	223	5	3	30.0			
180	Setto	227	228	226	225	5	3	30.0			
181	Setto	229	230	228	227	5	3	30.0			
182	Setto	231	232	230	229	5	3	30.0			
183	Setto	233	234	232	231	5	3	30.0			
184	Setto	8	235	234	233	5	3	30.0			
185	Setto	221	236	237	222	5	3	30.0			
186	Setto	224	238	236	221	5	3	30.0			
187	Setto	226	239	238	224	5	3	30.0			
188	Setto	228	240	239	226	5	3	30.0			
189	Setto	230	241	240	228	5	3	30.0			
190	Setto	232	242	241	230	5	3	30.0			
191	Setto	234	243	242	232	5	3	30.0			
192	Setto	235	244	243	234	5	3	30.0			
193	Setto	236	245	246	237	5	3	30.0			
194	Setto	238	247	245	236	5	3	30.0			
195	Setto	239	248	247	238	5	3	30.0			
196	Setto	240	249	248	239	5	3	30.0			
197	Setto	241	250	249	240	5	3	30.0			
198	Setto	242	251	250	241	5	3	30.0			
199	Setto	243	252	251	242	5	3	30.0			
200	Setto	244	253	252	243	5	3	30.0			
201	Setto	245	254	255	246	5	3	30.0			
202	Setto	247	256	254	245	5	3	30.0			
203	Setto	248	257	256	247	5	3	30.0			
204	Setto	249	258	257	248	5	3	30.0			
205	Setto	250	259	258	249	5	3	30.0			
206	Setto	251	260	259	250	5	3	30.0			
207	Setto	252	261	260	251	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
208	Setto	253	9	261	252	5	3	30.0			
209	Setto	254	262	263	255	5	3	30.0			
210	Setto	256	264	262	254	5	3	30.0			
211	Setto	257	265	264	256	5	3	30.0			
212	Setto	258	266	265	257	5	3	30.0			
213	Setto	259	267	266	258	5	3	30.0			
214	Setto	260	268	267	259	5	3	30.0			
215	Setto	261	269	268	260	5	3	30.0			
216	Setto	9	3	269	261	5	3	30.0			
217	Setto	262	270	271	263	5	3	30.0			
218	Setto	264	272	270	262	5	3	30.0			
219	Setto	265	273	272	264	5	3	30.0			
220	Setto	266	274	273	265	5	3	30.0			
221	Setto	267	275	274	266	5	3	30.0			
222	Setto	268	276	275	267	5	3	30.0			
223	Setto	269	277	276	268	5	3	30.0			
224	Setto	3	278	277	269	5	3	30.0			
225	Setto	270	279	280	271	5	3	30.0			
226	Setto	272	281	279	270	5	3	30.0			
227	Setto	273	282	281	272	5	3	30.0			
228	Setto	274	283	282	273	5	3	30.0			
229	Setto	275	284	283	274	5	3	30.0			
230	Setto	276	285	284	275	5	3	30.0			
231	Setto	277	286	285	276	5	3	30.0			
232	Setto	278	287	286	277	5	3	30.0			
233	Setto	279	288	289	280	5	3	30.0			
234	Setto	281	290	288	279	5	3	30.0			
235	Setto	282	291	290	281	5	3	30.0			
236	Setto	283	292	291	282	5	3	30.0			
237	Setto	284	293	292	283	5	3	30.0			
238	Setto	285	294	293	284	5	3	30.0			
239	Setto	286	295	294	285	5	3	30.0			
240	Setto	287	296	295	286	5	3	30.0			
241	Setto	288	297	298	289	5	3	30.0			
242	Setto	290	299	297	288	5	3	30.0			
243	Setto	291	300	299	290	5	3	30.0			
244	Setto	292	301	300	291	5	3	30.0			
245	Setto	293	302	301	292	5	3	30.0			
246	Setto	294	303	302	293	5	3	30.0			
247	Setto	295	304	303	294	5	3	30.0			
248	Setto	296	6	304	295	5	3	30.0			
249	Setto	297	305	306	298	5	3	30.0			
250	Setto	299	307	305	297	5	3	30.0			
251	Setto	300	308	307	299	5	3	30.0			
252	Setto	301	309	308	300	5	3	30.0			
253	Setto	302	310	309	301	5	3	30.0			
254	Setto	303	311	310	302	5	3	30.0			
255	Setto	304	312	311	303	5	3	30.0			
256	Setto	6	12	312	304	5	3	30.0			
257	Setto	305	313	314	306	5	3	30.0			
258	Setto	307	315	313	305	5	3	30.0			
259	Setto	308	316	315	307	5	3	30.0			
260	Setto	309	317	316	308	5	3	30.0			
261	Setto	310	318	317	309	5	3	30.0			
262	Setto	311	319	318	310	5	3	30.0			
263	Setto	312	320	319	311	5	3	30.0			
264	Setto	12	321	320	312	5	3	30.0			
265	Setto	313	322	323	314	5	3	30.0			
266	Setto	315	324	322	313	5	3	30.0			
267	Setto	316	325	324	315	5	3	30.0			
268	Setto	317	326	325	316	5	3	30.0			
269	Setto	318	327	326	317	5	3	30.0			
270	Setto	319	328	327	318	5	3	30.0			
271	Setto	320	329	328	319	5	3	30.0			
272	Setto	321	330	329	320	5	3	30.0			
273	Setto	322	331	332	323	5	3	30.0			
274	Setto	324	333	331	322	5	3	30.0			
275	Setto	325	334	333	324	5	3	30.0			
276	Setto	326	335	334	325	5	3	30.0			
277	Setto	327	336	335	326	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
278	Setto	328	337	336	327	5	3	30.0			
279	Setto	329	338	337	328	5	3	30.0			
280	Setto	330	339	338	329	5	3	30.0			
281	Setto	331	340	341	332	5	3	30.0			
282	Setto	333	342	340	331	5	3	30.0			
283	Setto	334	343	342	333	5	3	30.0			
284	Setto	335	344	343	334	5	3	30.0			
285	Setto	336	345	344	335	5	3	30.0			
286	Setto	337	346	345	336	5	3	30.0			
287	Setto	338	347	346	337	5	3	30.0			
288	Setto	339	348	347	338	5	3	30.0			
289	Setto	340	349	350	341	5	3	30.0			
290	Setto	342	351	349	340	5	3	30.0			
291	Setto	343	352	351	342	5	3	30.0			
292	Setto	344	353	352	343	5	3	30.0			
293	Setto	345	354	353	344	5	3	30.0			
294	Setto	346	355	354	345	5	3	30.0			
295	Setto	347	356	355	346	5	3	30.0			
296	Setto	348	357	356	347	5	3	30.0			
297	Setto	349	358	359	350	5	3	30.0			
298	Setto	351	360	358	349	5	3	30.0			
299	Setto	352	361	360	351	5	3	30.0			
300	Setto	353	362	361	352	5	3	30.0			
301	Setto	354	363	362	353	5	3	30.0			
302	Setto	355	364	363	354	5	3	30.0			
303	Setto	356	365	364	355	5	3	30.0			
304	Setto	357	366	365	356	5	3	30.0			
305	Setto	358	367	368	359	5	3	30.0			
306	Setto	360	369	367	358	5	3	30.0			
307	Setto	361	370	369	360	5	3	30.0			
308	Setto	362	371	370	361	5	3	30.0			
309	Setto	363	372	371	362	5	3	30.0			
310	Setto	364	373	372	363	5	3	30.0			
311	Setto	365	374	373	364	5	3	30.0			
312	Setto	366	418	374	365	5	3	30.0			
313	Setto	367	375	376	368	5	3	30.0			
314	Setto	369	377	375	367	5	3	30.0			
315	Setto	370	378	377	369	5	3	30.0			
316	Setto	371	379	378	370	5	3	30.0			
317	Setto	372	380	379	371	5	3	30.0			
318	Setto	373	381	380	372	5	3	30.0			
319	Setto	374	382	381	373	5	3	30.0			
320	Setto	418	383	382	374	5	3	30.0			
321	Setto	375	384	385	376	5	3	30.0			
322	Setto	377	386	384	375	5	3	30.0			
323	Setto	378	387	386	377	5	3	30.0			
324	Setto	379	388	387	378	5	3	30.0			
325	Setto	380	389	388	379	5	3	30.0			
326	Setto	381	390	389	380	5	3	30.0			
327	Setto	382	391	390	381	5	3	30.0			
328	Setto	383	392	391	382	5	3	30.0			
329	Setto	384	393	394	385	5	3	30.0			
330	Setto	386	395	393	384	5	3	30.0			
331	Setto	387	396	395	386	5	3	30.0			
332	Setto	388	397	396	387	5	3	30.0			
333	Setto	389	398	397	388	5	3	30.0			
334	Setto	390	399	398	389	5	3	30.0			
335	Setto	391	400	399	390	5	3	30.0			
336	Setto	392	401	400	391	5	3	30.0			
337	Setto	393	402	403	394	5	3	30.0			
338	Setto	395	404	402	393	5	3	30.0			
339	Setto	396	405	404	395	5	3	30.0			
340	Setto	397	406	405	396	5	3	30.0			
341	Setto	398	407	406	397	5	3	30.0			
342	Setto	399	408	407	398	5	3	30.0			
343	Setto	400	409	408	399	5	3	30.0			
344	Setto	401	410	409	400	5	3	30.0			
345	Setto	402	411	5	403	5	3	30.0			
346	Setto	404	412	411	402	5	3	30.0			
347	Setto	405	413	412	404	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
348	Setto	406	414	413	405	5	3	30.0			
349	Setto	407	415	414	406	5	3	30.0			
350	Setto	408	416	415	407	5	3	30.0			
351	Setto	409	417	416	408	5	3	30.0			
352	Setto	410	11	417	409	5	3	30.0			
353	Guscio	7	28	421	420	5	3	30.0			
354	Guscio	420	421	423	422	5	3	30.0			
355	Guscio	422	423	425	424	5	3	30.0			
356	Guscio	424	425	427	426	5	3	30.0			
357	Guscio	426	427	429	428	5	3	30.0			
358	Guscio	428	429	431	430	5	3	30.0			
359	Guscio	430	431	433	432	5	3	30.0			
360	Guscio	432	433	235	8	5	3	30.0			
361	Guscio	28	37	434	421	5	3	30.0			
362	Guscio	421	434	435	423	5	3	30.0			
363	Guscio	423	435	436	425	5	3	30.0			
364	Guscio	425	436	437	427	5	3	30.0			
365	Guscio	427	437	438	429	5	3	30.0			
366	Guscio	429	438	439	431	5	3	30.0			
367	Guscio	431	439	440	433	5	3	30.0			
368	Guscio	433	440	244	235	5	3	30.0			
369	Guscio	37	46	441	434	5	3	30.0			
370	Guscio	434	441	442	435	5	3	30.0			
371	Guscio	435	442	443	436	5	3	30.0			
372	Guscio	436	443	444	437	5	3	30.0			
373	Guscio	437	444	445	438	5	3	30.0			
374	Guscio	438	445	446	439	5	3	30.0			
375	Guscio	439	446	447	440	5	3	30.0			
376	Guscio	440	447	253	244	5	3	30.0			
377	Guscio	46	55	448	441	5	3	30.0			
378	Guscio	441	448	449	442	5	3	30.0			
379	Guscio	442	449	450	443	5	3	30.0			
380	Guscio	443	450	451	444	5	3	30.0			
381	Guscio	444	451	452	445	5	3	30.0			
382	Guscio	445	452	453	446	5	3	30.0			
383	Guscio	446	453	454	447	5	3	30.0			
384	Guscio	447	454	9	253	5	3	30.0			
385	Guscio	55	64	455	448	5	3	30.0			
386	Guscio	448	455	456	449	5	3	30.0			
387	Guscio	449	456	457	450	5	3	30.0			
388	Guscio	450	457	458	451	5	3	30.0			
389	Guscio	451	458	459	452	5	3	30.0			
390	Guscio	452	459	460	453	5	3	30.0			
391	Guscio	453	460	461	454	5	3	30.0			
392	Guscio	454	461	3	9	5	3	30.0			
393	Guscio	64	73	462	455	5	3	30.0			
394	Guscio	455	462	463	456	5	3	30.0			
395	Guscio	456	463	464	457	5	3	30.0			
396	Guscio	457	464	465	458	5	3	30.0			
397	Guscio	458	465	466	459	5	3	30.0			
398	Guscio	459	466	467	460	5	3	30.0			
399	Guscio	460	467	468	461	5	3	30.0			
400	Guscio	461	468	278	3	5	3	30.0			
401	Guscio	73	82	469	462	5	3	30.0			
402	Guscio	462	469	470	463	5	3	30.0			
403	Guscio	463	470	471	464	5	3	30.0			
404	Guscio	464	471	472	465	5	3	30.0			
405	Guscio	465	472	473	466	5	3	30.0			
406	Guscio	466	473	474	467	5	3	30.0			
407	Guscio	467	474	475	468	5	3	30.0			
408	Guscio	468	475	287	278	5	3	30.0			
409	Guscio	82	91	476	469	5	3	30.0			
410	Guscio	469	476	477	470	5	3	30.0			
411	Guscio	470	477	478	471	5	3	30.0			
412	Guscio	471	478	479	472	5	3	30.0			
413	Guscio	472	479	480	473	5	3	30.0			
414	Guscio	473	480	481	474	5	3	30.0			
415	Guscio	474	481	482	475	5	3	30.0			
416	Guscio	475	482	296	287	5	3	30.0			
417	Guscio	91	100	483	476	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
418	Guscio	476	483	484	477	5	3	30.0			
419	Guscio	477	484	485	478	5	3	30.0			
420	Guscio	478	485	486	479	5	3	30.0			
421	Guscio	479	486	487	480	5	3	30.0			
422	Guscio	480	487	488	481	5	3	30.0			
423	Guscio	481	488	489	482	5	3	30.0			
424	Guscio	482	489	6	296	5	3	30.0			
425	Guscio	100	109	490	483	5	3	30.0			
426	Guscio	483	490	491	484	5	3	30.0			
427	Guscio	484	491	492	485	5	3	30.0			
428	Guscio	485	492	493	486	5	3	30.0			
429	Guscio	486	493	494	487	5	3	30.0			
430	Guscio	487	494	495	488	5	3	30.0			
431	Guscio	488	495	496	489	5	3	30.0			
432	Guscio	489	496	12	6	5	3	30.0			
433	Guscio	109	118	497	490	5	3	30.0			
434	Guscio	490	497	498	491	5	3	30.0			
435	Guscio	491	498	499	492	5	3	30.0			
436	Guscio	492	499	500	493	5	3	30.0			
437	Guscio	493	500	501	494	5	3	30.0			
438	Guscio	494	501	502	495	5	3	30.0			
439	Guscio	495	502	503	496	5	3	30.0			
440	Guscio	496	503	321	12	5	3	30.0			
441	Guscio	118	127	504	497	5	3	30.0			
442	Guscio	497	504	505	498	5	3	30.0			
443	Guscio	498	505	506	499	5	3	30.0			
444	Guscio	499	506	507	500	5	3	30.0			
445	Guscio	500	507	508	501	5	3	30.0			
446	Guscio	501	508	509	502	5	3	30.0			
447	Guscio	502	509	510	503	5	3	30.0			
448	Guscio	503	510	330	321	5	3	30.0			
449	Guscio	127	136	511	504	5	3	30.0			
450	Guscio	504	511	512	505	5	3	30.0			
451	Guscio	505	512	513	506	5	3	30.0			
452	Guscio	506	513	514	507	5	3	30.0			
453	Guscio	507	514	515	508	5	3	30.0			
454	Guscio	508	515	516	509	5	3	30.0			
455	Guscio	509	516	517	510	5	3	30.0			
456	Guscio	510	517	339	330	5	3	30.0			
457	Guscio	136	145	518	511	5	3	30.0			
458	Guscio	511	518	519	512	5	3	30.0			
459	Guscio	512	519	520	513	5	3	30.0			
460	Guscio	513	520	521	514	5	3	30.0			
461	Guscio	514	521	522	515	5	3	30.0			
462	Guscio	515	522	523	516	5	3	30.0			
463	Guscio	516	523	524	517	5	3	30.0			
464	Guscio	517	524	348	339	5	3	30.0			
465	Guscio	145	154	525	518	5	3	30.0			
466	Guscio	518	525	526	519	5	3	30.0			
467	Guscio	519	526	527	520	5	3	30.0			
468	Guscio	520	527	528	521	5	3	30.0			
469	Guscio	521	528	529	522	5	3	30.0			
470	Guscio	522	529	530	523	5	3	30.0			
471	Guscio	523	530	531	524	5	3	30.0			
472	Guscio	524	531	357	348	5	3	30.0			
473	Guscio	154	163	532	525	5	3	30.0			
474	Guscio	525	532	533	526	5	3	30.0			
475	Guscio	526	533	534	527	5	3	30.0			
476	Guscio	527	534	535	528	5	3	30.0			
477	Guscio	528	535	536	529	5	3	30.0			
478	Guscio	529	536	537	530	5	3	30.0			
479	Guscio	530	537	538	531	5	3	30.0			
480	Guscio	531	538	366	357	5	3	30.0			
481	Guscio	163	172	539	532	5	3	30.0			
482	Guscio	532	539	540	533	5	3	30.0			
483	Guscio	533	540	541	534	5	3	30.0			
484	Guscio	534	541	542	535	5	3	30.0			
485	Guscio	535	542	543	536	5	3	30.0			
486	Guscio	536	543	544	537	5	3	30.0			
487	Guscio	537	544	545	538	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
488	Guscio	538	545	418	366	5	3	30.0			
489	Guscio	172	181	546	539	5	3	30.0			
490	Guscio	539	546	547	540	5	3	30.0			
491	Guscio	540	547	548	541	5	3	30.0			
492	Guscio	541	548	549	542	5	3	30.0			
493	Guscio	542	549	550	543	5	3	30.0			
494	Guscio	543	550	551	544	5	3	30.0			
495	Guscio	544	551	552	545	5	3	30.0			
496	Guscio	545	552	383	418	5	3	30.0			
497	Guscio	181	190	553	546	5	3	30.0			
498	Guscio	546	553	554	547	5	3	30.0			
499	Guscio	547	554	555	548	5	3	30.0			
500	Guscio	548	555	556	549	5	3	30.0			
501	Guscio	549	556	557	550	5	3	30.0			
502	Guscio	550	557	558	551	5	3	30.0			
503	Guscio	551	558	559	552	5	3	30.0			
504	Guscio	552	559	392	383	5	3	30.0			
505	Guscio	190	199	560	553	5	3	30.0			
506	Guscio	553	560	561	554	5	3	30.0			
507	Guscio	554	561	562	555	5	3	30.0			
508	Guscio	555	562	563	556	5	3	30.0			
509	Guscio	556	563	564	557	5	3	30.0			
510	Guscio	557	564	565	558	5	3	30.0			
511	Guscio	558	565	566	559	5	3	30.0			
512	Guscio	559	566	401	392	5	3	30.0			
513	Guscio	199	208	567	560	5	3	30.0			
514	Guscio	560	567	568	561	5	3	30.0			
515	Guscio	561	568	569	562	5	3	30.0			
516	Guscio	562	569	570	563	5	3	30.0			
517	Guscio	563	570	571	564	5	3	30.0			
518	Guscio	564	571	572	565	5	3	30.0			
519	Guscio	565	572	573	566	5	3	30.0			
520	Guscio	566	573	410	401	5	3	30.0			
521	Guscio	208	10	574	567	5	3	30.0			
522	Guscio	567	574	575	568	5	3	30.0			
523	Guscio	568	575	576	569	5	3	30.0			
524	Guscio	569	576	577	570	5	3	30.0			
525	Guscio	570	577	578	571	5	3	30.0			
526	Guscio	571	578	579	572	5	3	30.0			
527	Guscio	572	579	580	573	5	3	30.0			
528	Guscio	573	580	11	410	5	3	30.0			
529	Setto	1	582	581	13	5	3	30.0			
530	Setto	13	581	583	16	5	3	30.0			
531	Setto	16	583	584	18	5	3	30.0			
532	Setto	18	584	585	20	5	3	30.0			
533	Setto	20	585	586	22	5	3	30.0			
534	Setto	22	586	587	24	5	3	30.0			
535	Setto	24	587	588	26	5	3	30.0			
536	Setto	26	588	420	7	5	3	30.0			
537	Setto	582	590	589	581	5	3	30.0			
538	Setto	581	589	591	583	5	3	30.0			
539	Setto	583	591	592	584	5	3	30.0			
540	Setto	584	592	593	585	5	3	30.0			
541	Setto	585	593	594	586	5	3	30.0			
542	Setto	586	594	595	587	5	3	30.0			
543	Setto	587	595	596	588	5	3	30.0			
544	Setto	588	596	422	420	5	3	30.0			
545	Setto	590	598	597	589	5	3	30.0			
546	Setto	589	597	599	591	5	3	30.0			
547	Setto	591	599	600	592	5	3	30.0			
548	Setto	592	600	601	593	5	3	30.0			
549	Setto	593	601	602	594	5	3	30.0			
550	Setto	594	602	603	595	5	3	30.0			
551	Setto	595	603	604	596	5	3	30.0			
552	Setto	596	604	424	422	5	3	30.0			
553	Setto	598	606	605	597	5	3	30.0			
554	Setto	597	605	607	599	5	3	30.0			
555	Setto	599	607	608	600	5	3	30.0			
556	Setto	600	608	609	601	5	3	30.0			
557	Setto	601	609	610	602	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
558	Setto	602	610	611	603	5	3	30.0			
559	Setto	603	611	612	604	5	3	30.0			
560	Setto	604	612	426	424	5	3	30.0			
561	Setto	606	614	613	605	5	3	30.0			
562	Setto	605	613	615	607	5	3	30.0			
563	Setto	607	615	616	608	5	3	30.0			
564	Setto	608	616	617	609	5	3	30.0			
565	Setto	609	617	618	610	5	3	30.0			
566	Setto	610	618	619	611	5	3	30.0			
567	Setto	611	619	620	612	5	3	30.0			
568	Setto	612	620	428	426	5	3	30.0			
569	Setto	614	622	621	613	5	3	30.0			
570	Setto	613	621	623	615	5	3	30.0			
571	Setto	615	623	624	616	5	3	30.0			
572	Setto	616	624	625	617	5	3	30.0			
573	Setto	617	625	626	618	5	3	30.0			
574	Setto	618	626	627	619	5	3	30.0			
575	Setto	619	627	628	620	5	3	30.0			
576	Setto	620	628	430	428	5	3	30.0			
577	Setto	622	630	629	621	5	3	30.0			
578	Setto	621	629	631	623	5	3	30.0			
579	Setto	623	631	632	624	5	3	30.0			
580	Setto	624	632	633	625	5	3	30.0			
581	Setto	625	633	634	626	5	3	30.0			
582	Setto	626	634	635	627	5	3	30.0			
583	Setto	627	635	636	628	5	3	30.0			
584	Setto	628	636	432	430	5	3	30.0			
585	Setto	630	2	220	629	5	3	30.0			
586	Setto	629	220	223	631	5	3	30.0			
587	Setto	631	223	225	632	5	3	30.0			
588	Setto	632	225	227	633	5	3	30.0			
589	Setto	633	227	229	634	5	3	30.0			
590	Setto	634	229	231	635	5	3	30.0			
591	Setto	635	231	233	636	5	3	30.0			
592	Setto	636	233	8	432	5	3	30.0			
593	Setto	649	650	651	637	5	3	30.0			
594	Setto	652	653	650	649	5	3	30.0			
595	Setto	654	655	653	652	5	3	30.0			
596	Setto	656	657	655	654	5	3	30.0			
597	Setto	658	659	657	656	5	3	30.0			
598	Setto	660	661	659	658	5	3	30.0			
599	Setto	662	663	661	660	5	3	30.0			
600	Setto	641	664	663	662	5	3	30.0			
601	Setto	650	665	666	651	5	3	30.0			
602	Setto	653	667	665	650	5	3	30.0			
603	Setto	655	668	667	653	5	3	30.0			
604	Setto	657	669	668	655	5	3	30.0			
605	Setto	659	670	669	657	5	3	30.0			
606	Setto	661	671	670	659	5	3	30.0			
607	Setto	663	672	671	661	5	3	30.0			
608	Setto	664	673	672	663	5	3	30.0			
609	Setto	665	674	675	666	5	3	30.0			
610	Setto	667	676	674	665	5	3	30.0			
611	Setto	668	677	676	667	5	3	30.0			
612	Setto	669	678	677	668	5	3	30.0			
613	Setto	670	679	678	669	5	3	30.0			
614	Setto	671	680	679	670	5	3	30.0			
615	Setto	672	681	680	671	5	3	30.0			
616	Setto	673	682	681	672	5	3	30.0			
617	Setto	674	683	684	675	5	3	30.0			
618	Setto	676	685	683	674	5	3	30.0			
619	Setto	677	686	685	676	5	3	30.0			
620	Setto	678	687	686	677	5	3	30.0			
621	Setto	679	688	687	678	5	3	30.0			
622	Setto	680	689	688	679	5	3	30.0			
623	Setto	681	690	689	680	5	3	30.0			
624	Setto	682	642	690	681	5	3	30.0			
625	Setto	683	691	692	684	5	3	30.0			
626	Setto	685	693	691	683	5	3	30.0			
627	Setto	686	694	693	685	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
628	Setto	687	695	694	686	5	3	30.0			
629	Setto	688	696	695	687	5	3	30.0			
630	Setto	689	697	696	688	5	3	30.0			
631	Setto	690	698	697	689	5	3	30.0			
632	Setto	642	638	698	690	5	3	30.0			
633	Setto	691	699	700	692	5	3	30.0			
634	Setto	693	701	699	691	5	3	30.0			
635	Setto	694	702	701	693	5	3	30.0			
636	Setto	695	703	702	694	5	3	30.0			
637	Setto	696	704	703	695	5	3	30.0			
638	Setto	697	705	704	696	5	3	30.0			
639	Setto	698	706	705	697	5	3	30.0			
640	Setto	638	707	706	698	5	3	30.0			
641	Setto	699	708	709	700	5	3	30.0			
642	Setto	701	710	708	699	5	3	30.0			
643	Setto	702	711	710	701	5	3	30.0			
644	Setto	703	712	711	702	5	3	30.0			
645	Setto	704	713	712	703	5	3	30.0			
646	Setto	705	714	713	704	5	3	30.0			
647	Setto	706	715	714	705	5	3	30.0			
648	Setto	707	716	715	706	5	3	30.0			
649	Setto	708	717	718	709	5	3	30.0			
650	Setto	710	719	717	708	5	3	30.0			
651	Setto	711	720	719	710	5	3	30.0			
652	Setto	712	721	720	711	5	3	30.0			
653	Setto	713	722	721	712	5	3	30.0			
654	Setto	714	723	722	713	5	3	30.0			
655	Setto	715	724	723	714	5	3	30.0			
656	Setto	716	725	724	715	5	3	30.0			
657	Setto	717	726	727	718	5	3	30.0			
658	Setto	719	728	726	717	5	3	30.0			
659	Setto	720	729	728	719	5	3	30.0			
660	Setto	721	730	729	720	5	3	30.0			
661	Setto	722	731	730	721	5	3	30.0			
662	Setto	723	732	731	722	5	3	30.0			
663	Setto	724	733	732	723	5	3	30.0			
664	Setto	725	640	733	724	5	3	30.0			
665	Setto	726	734	735	727	5	3	30.0			
666	Setto	728	736	734	726	5	3	30.0			
667	Setto	729	737	736	728	5	3	30.0			
668	Setto	730	738	737	729	5	3	30.0			
669	Setto	731	739	738	730	5	3	30.0			
670	Setto	732	740	739	731	5	3	30.0			
671	Setto	733	741	740	732	5	3	30.0			
672	Setto	640	644	741	733	5	3	30.0			
673	Setto	734	742	743	735	5	3	30.0			
674	Setto	736	744	742	734	5	3	30.0			
675	Setto	737	745	744	736	5	3	30.0			
676	Setto	738	746	745	737	5	3	30.0			
677	Setto	739	747	746	738	5	3	30.0			
678	Setto	740	748	747	739	5	3	30.0			
679	Setto	741	749	748	740	5	3	30.0			
680	Setto	644	750	749	741	5	3	30.0			
681	Setto	742	751	752	743	5	3	30.0			
682	Setto	744	753	751	742	5	3	30.0			
683	Setto	745	754	753	744	5	3	30.0			
684	Setto	746	755	754	745	5	3	30.0			
685	Setto	747	756	755	746	5	3	30.0			
686	Setto	748	757	756	747	5	3	30.0			
687	Setto	749	758	757	748	5	3	30.0			
688	Setto	750	759	758	749	5	3	30.0			
689	Setto	751	760	761	752	5	3	30.0			
690	Setto	753	762	760	751	5	3	30.0			
691	Setto	754	763	762	753	5	3	30.0			
692	Setto	755	764	763	754	5	3	30.0			
693	Setto	756	765	764	755	5	3	30.0			
694	Setto	757	766	765	756	5	3	30.0			
695	Setto	758	767	766	757	5	3	30.0			
696	Setto	759	768	767	758	5	3	30.0			
697	Setto	760	769	770	761	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
698	Setto	762	771	769	760	5	3	30.0			
699	Setto	763	772	771	762	5	3	30.0			
700	Setto	764	773	772	763	5	3	30.0			
701	Setto	765	774	773	764	5	3	30.0			
702	Setto	766	775	774	765	5	3	30.0			
703	Setto	767	776	775	766	5	3	30.0			
704	Setto	768	777	776	767	5	3	30.0			
705	Setto	769	778	779	770	5	3	30.0			
706	Setto	771	780	778	769	5	3	30.0			
707	Setto	772	781	780	771	5	3	30.0			
708	Setto	773	782	781	772	5	3	30.0			
709	Setto	774	783	782	773	5	3	30.0			
710	Setto	775	784	783	774	5	3	30.0			
711	Setto	776	785	784	775	5	3	30.0			
712	Setto	777	786	785	776	5	3	30.0			
713	Setto	778	787	788	779	5	3	30.0			
714	Setto	780	789	787	778	5	3	30.0			
715	Setto	781	790	789	780	5	3	30.0			
716	Setto	782	791	790	781	5	3	30.0			
717	Setto	783	792	791	782	5	3	30.0			
718	Setto	784	793	792	783	5	3	30.0			
719	Setto	785	794	793	784	5	3	30.0			
720	Setto	786	795	794	785	5	3	30.0			
721	Setto	787	796	797	788	5	3	30.0			
722	Setto	789	798	796	787	5	3	30.0			
723	Setto	790	799	798	789	5	3	30.0			
724	Setto	791	800	799	790	5	3	30.0			
725	Setto	792	801	800	791	5	3	30.0			
726	Setto	793	802	801	792	5	3	30.0			
727	Setto	794	803	802	793	5	3	30.0			
728	Setto	795	847	803	794	5	3	30.0			
729	Setto	796	804	805	797	5	3	30.0			
730	Setto	798	806	804	796	5	3	30.0			
731	Setto	799	807	806	798	5	3	30.0			
732	Setto	800	808	807	799	5	3	30.0			
733	Setto	801	809	808	800	5	3	30.0			
734	Setto	802	810	809	801	5	3	30.0			
735	Setto	803	811	810	802	5	3	30.0			
736	Setto	847	812	811	803	5	3	30.0			
737	Setto	804	813	814	805	5	3	30.0			
738	Setto	806	815	813	804	5	3	30.0			
739	Setto	807	816	815	806	5	3	30.0			
740	Setto	808	817	816	807	5	3	30.0			
741	Setto	809	818	817	808	5	3	30.0			
742	Setto	810	819	818	809	5	3	30.0			
743	Setto	811	820	819	810	5	3	30.0			
744	Setto	812	821	820	811	5	3	30.0			
745	Setto	813	822	823	814	5	3	30.0			
746	Setto	815	824	822	813	5	3	30.0			
747	Setto	816	825	824	815	5	3	30.0			
748	Setto	817	826	825	816	5	3	30.0			
749	Setto	818	827	826	817	5	3	30.0			
750	Setto	819	828	827	818	5	3	30.0			
751	Setto	820	829	828	819	5	3	30.0			
752	Setto	821	830	829	820	5	3	30.0			
753	Setto	822	831	832	823	5	3	30.0			
754	Setto	824	833	831	822	5	3	30.0			
755	Setto	825	834	833	824	5	3	30.0			
756	Setto	826	835	834	825	5	3	30.0			
757	Setto	827	836	835	826	5	3	30.0			
758	Setto	828	837	836	827	5	3	30.0			
759	Setto	829	838	837	828	5	3	30.0			
760	Setto	830	839	838	829	5	3	30.0			
761	Setto	831	840	839	832	5	3	30.0			
762	Setto	833	841	840	831	5	3	30.0			
763	Setto	834	842	841	833	5	3	30.0			
764	Setto	835	843	842	834	5	3	30.0			
765	Setto	836	844	843	835	5	3	30.0			
766	Setto	837	845	844	836	5	3	30.0			
767	Setto	838	846	845	837	5	3	30.0			

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
768	Setto	839	643	846	838	5	3	30.0			
769	Guscio	8	235	850	849	5	3	30.0			
770	Guscio	849	850	852	851	5	3	30.0			
771	Guscio	851	852	854	853	5	3	30.0			
772	Guscio	853	854	856	855	5	3	30.0			
773	Guscio	855	856	858	857	5	3	30.0			
774	Guscio	857	858	860	859	5	3	30.0			
775	Guscio	859	860	862	861	5	3	30.0			
776	Guscio	861	862	664	641	5	3	30.0			
777	Guscio	235	244	863	850	5	3	30.0			
778	Guscio	850	863	864	852	5	3	30.0			
779	Guscio	852	864	865	854	5	3	30.0			
780	Guscio	854	865	866	856	5	3	30.0			
781	Guscio	856	866	867	858	5	3	30.0			
782	Guscio	858	867	868	860	5	3	30.0			
783	Guscio	860	868	869	862	5	3	30.0			
784	Guscio	862	869	673	664	5	3	30.0			
785	Guscio	244	253	870	863	5	3	30.0			
786	Guscio	863	870	871	864	5	3	30.0			
787	Guscio	864	871	872	865	5	3	30.0			
788	Guscio	865	872	873	866	5	3	30.0			
789	Guscio	866	873	874	867	5	3	30.0			
790	Guscio	867	874	875	868	5	3	30.0			
791	Guscio	868	875	876	869	5	3	30.0			
792	Guscio	869	876	682	673	5	3	30.0			
793	Guscio	253	9	877	870	5	3	30.0			
794	Guscio	870	877	878	871	5	3	30.0			
795	Guscio	871	878	879	872	5	3	30.0			
796	Guscio	872	879	880	873	5	3	30.0			
797	Guscio	873	880	881	874	5	3	30.0			
798	Guscio	874	881	882	875	5	3	30.0			
799	Guscio	875	882	883	876	5	3	30.0			
800	Guscio	876	883	642	682	5	3	30.0			
801	Guscio	9	3	884	877	5	3	30.0			
802	Guscio	877	884	885	878	5	3	30.0			
803	Guscio	878	885	886	879	5	3	30.0			
804	Guscio	879	886	887	880	5	3	30.0			
805	Guscio	880	887	888	881	5	3	30.0			
806	Guscio	881	888	889	882	5	3	30.0			
807	Guscio	882	889	890	883	5	3	30.0			
808	Guscio	883	890	638	642	5	3	30.0			
809	Guscio	3	278	891	884	5	3	30.0			
810	Guscio	884	891	892	885	5	3	30.0			
811	Guscio	885	892	893	886	5	3	30.0			
812	Guscio	886	893	894	887	5	3	30.0			
813	Guscio	887	894	895	888	5	3	30.0			
814	Guscio	888	895	896	889	5	3	30.0			
815	Guscio	889	896	897	890	5	3	30.0			
816	Guscio	890	897	707	638	5	3	30.0			
817	Guscio	278	287	898	891	5	3	30.0			
818	Guscio	891	898	899	892	5	3	30.0			
819	Guscio	892	899	900	893	5	3	30.0			
820	Guscio	893	900	901	894	5	3	30.0			
821	Guscio	894	901	902	895	5	3	30.0			
822	Guscio	895	902	903	896	5	3	30.0			
823	Guscio	896	903	904	897	5	3	30.0			
824	Guscio	897	904	716	707	5	3	30.0			
825	Guscio	287	296	905	898	5	3	30.0			
826	Guscio	898	905	906	899	5	3	30.0			
827	Guscio	899	906	907	900	5	3	30.0			
828	Guscio	900	907	908	901	5	3	30.0			
829	Guscio	901	908	909	902	5	3	30.0			
830	Guscio	902	909	910	903	5	3	30.0			
831	Guscio	903	910	911	904	5	3	30.0			
832	Guscio	904	911	725	716	5	3	30.0			
833	Guscio	296	6	912	905	5	3	30.0			
834	Guscio	905	912	913	906	5	3	30.0			
835	Guscio	906	913	914	907	5	3	30.0			
836	Guscio	907	914	915	908	5	3	30.0			
837	Guscio	908	915	916	909	5	3	30.0			

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 46 di 378



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
838	Guscio	909	916	917	910	5	3	30.0			
839	Guscio	910	917	918	911	5	3	30.0			
840	Guscio	911	918	640	725	5	3	30.0			
841	Guscio	6	12	919	912	5	3	30.0			
842	Guscio	912	919	920	913	5	3	30.0			
843	Guscio	913	920	921	914	5	3	30.0			
844	Guscio	914	921	922	915	5	3	30.0			
845	Guscio	915	922	923	916	5	3	30.0			
846	Guscio	916	923	924	917	5	3	30.0			
847	Guscio	917	924	925	918	5	3	30.0			
848	Guscio	918	925	644	640	5	3	30.0			
849	Guscio	12	321	926	919	5	3	30.0			
850	Guscio	919	926	927	920	5	3	30.0			
851	Guscio	920	927	928	921	5	3	30.0			
852	Guscio	921	928	929	922	5	3	30.0			
853	Guscio	922	929	930	923	5	3	30.0			
854	Guscio	923	930	931	924	5	3	30.0			
855	Guscio	924	931	932	925	5	3	30.0			
856	Guscio	925	932	750	644	5	3	30.0			
857	Guscio	321	330	933	926	5	3	30.0			
858	Guscio	926	933	934	927	5	3	30.0			
859	Guscio	927	934	935	928	5	3	30.0			
860	Guscio	928	935	936	929	5	3	30.0			
861	Guscio	929	936	937	930	5	3	30.0			
862	Guscio	930	937	938	931	5	3	30.0			
863	Guscio	931	938	939	932	5	3	30.0			
864	Guscio	932	939	759	750	5	3	30.0			
865	Guscio	330	339	940	933	5	3	30.0			
866	Guscio	933	940	941	934	5	3	30.0			
867	Guscio	934	941	942	935	5	3	30.0			
868	Guscio	935	942	943	936	5	3	30.0			
869	Guscio	936	943	944	937	5	3	30.0			
870	Guscio	937	944	945	938	5	3	30.0			
871	Guscio	938	945	946	939	5	3	30.0			
872	Guscio	939	946	768	759	5	3	30.0			
873	Guscio	339	348	947	940	5	3	30.0			
874	Guscio	940	947	948	941	5	3	30.0			
875	Guscio	941	948	949	942	5	3	30.0			
876	Guscio	942	949	950	943	5	3	30.0			
877	Guscio	943	950	951	944	5	3	30.0			
878	Guscio	944	951	952	945	5	3	30.0			
879	Guscio	945	952	953	946	5	3	30.0			
880	Guscio	946	953	777	768	5	3	30.0			
881	Guscio	348	357	954	947	5	3	30.0			
882	Guscio	947	954	955	948	5	3	30.0			
883	Guscio	948	955	956	949	5	3	30.0			
884	Guscio	949	956	957	950	5	3	30.0			
885	Guscio	950	957	958	951	5	3	30.0			
886	Guscio	951	958	959	952	5	3	30.0			
887	Guscio	952	959	960	953	5	3	30.0			
888	Guscio	953	960	786	777	5	3	30.0			
889	Guscio	357	366	961	954	5	3	30.0			
890	Guscio	954	961	962	955	5	3	30.0			
891	Guscio	955	962	963	956	5	3	30.0			
892	Guscio	956	963	964	957	5	3	30.0			
893	Guscio	957	964	965	958	5	3	30.0			
894	Guscio	958	965	966	959	5	3	30.0			
895	Guscio	959	966	967	960	5	3	30.0			
896	Guscio	960	967	795	786	5	3	30.0			
897	Guscio	366	418	968	961	5	3	30.0			
898	Guscio	961	968	969	962	5	3	30.0			
899	Guscio	962	969	970	963	5	3	30.0			
900	Guscio	963	970	971	964	5	3	30.0			
901	Guscio	964	971	972	965	5	3	30.0			
902	Guscio	965	972	973	966	5	3	30.0			
903	Guscio	966	973	974	967	5	3	30.0			
904	Guscio	967	974	847	795	5	3	30.0			
905	Guscio	418	383	975	968	5	3	30.0			
906	Guscio	968	975	976	969	5	3	30.0			
907	Guscio	969	976	977	970	5	3	30.0			

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 47 di 378



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
908	Guscio	970	977	978	971	5	3	30.0			
909	Guscio	971	978	979	972	5	3	30.0			
910	Guscio	972	979	980	973	5	3	30.0			
911	Guscio	973	980	981	974	5	3	30.0			
912	Guscio	974	981	812	847	5	3	30.0			
913	Guscio	383	392	982	975	5	3	30.0			
914	Guscio	975	982	983	976	5	3	30.0			
915	Guscio	976	983	984	977	5	3	30.0			
916	Guscio	977	984	985	978	5	3	30.0			
917	Guscio	978	985	986	979	5	3	30.0			
918	Guscio	979	986	987	980	5	3	30.0			
919	Guscio	980	987	988	981	5	3	30.0			
920	Guscio	981	988	821	812	5	3	30.0			
921	Guscio	392	401	989	982	5	3	30.0			
922	Guscio	982	989	990	983	5	3	30.0			
923	Guscio	983	990	991	984	5	3	30.0			
924	Guscio	984	991	992	985	5	3	30.0			
925	Guscio	985	992	993	986	5	3	30.0			
926	Guscio	986	993	994	987	5	3	30.0			
927	Guscio	987	994	995	988	5	3	30.0			
928	Guscio	988	995	830	821	5	3	30.0			
929	Guscio	401	410	996	989	5	3	30.0			
930	Guscio	989	996	997	990	5	3	30.0			
931	Guscio	990	997	998	991	5	3	30.0			
932	Guscio	991	998	999	992	5	3	30.0			
933	Guscio	992	999	1000	993	5	3	30.0			
934	Guscio	993	1000	1001	994	5	3	30.0			
935	Guscio	994	1001	1002	995	5	3	30.0			
936	Guscio	995	1002	839	830	5	3	30.0			
937	Guscio	410	11	1003	996	5	3	30.0			
938	Guscio	996	1003	1004	997	5	3	30.0			
939	Guscio	997	1004	1005	998	5	3	30.0			
940	Guscio	998	1005	1006	999	5	3	30.0			
941	Guscio	999	1006	1007	1000	5	3	30.0			
942	Guscio	1000	1007	1008	1001	5	3	30.0			
943	Guscio	1001	1008	1009	1002	5	3	30.0			
944	Guscio	1002	1009	643	839	5	3	30.0			
945	Setto	2	1011	1010	220	5	3	30.0			
946	Setto	220	1010	1012	223	5	3	30.0			
947	Setto	223	1012	1013	225	5	3	30.0			
948	Setto	225	1013	1014	227	5	3	30.0			
949	Setto	227	1014	1015	229	5	3	30.0			
950	Setto	229	1015	1016	231	5	3	30.0			
951	Setto	231	1016	1017	233	5	3	30.0			
952	Setto	233	1017	849	8	5	3	30.0			
953	Setto	1011	1019	1018	1010	5	3	30.0			
954	Setto	1010	1018	1020	1012	5	3	30.0			
955	Setto	1012	1020	1021	1013	5	3	30.0			
956	Setto	1013	1021	1022	1014	5	3	30.0			
957	Setto	1014	1022	1023	1015	5	3	30.0			
958	Setto	1015	1023	1024	1016	5	3	30.0			
959	Setto	1016	1024	1025	1017	5	3	30.0			
960	Setto	1017	1025	851	849	5	3	30.0			
961	Setto	1019	1027	1026	1018	5	3	30.0			
962	Setto	1018	1026	1028	1020	5	3	30.0			
963	Setto	1020	1028	1029	1021	5	3	30.0			
964	Setto	1021	1029	1030	1022	5	3	30.0			
965	Setto	1022	1030	1031	1023	5	3	30.0			
966	Setto	1023	1031	1032	1024	5	3	30.0			
967	Setto	1024	1032	1033	1025	5	3	30.0			
968	Setto	1025	1033	853	851	5	3	30.0			
969	Setto	1027	1035	1034	1026	5	3	30.0			
970	Setto	1026	1034	1036	1028	5	3	30.0			
971	Setto	1028	1036	1037	1029	5	3	30.0			
972	Setto	1029	1037	1038	1030	5	3	30.0			
973	Setto	1030	1038	1039	1031	5	3	30.0			
974	Setto	1031	1039	1040	1032	5	3	30.0			
975	Setto	1032	1040	1041	1033	5	3	30.0			
976	Setto	1033	1041	855	853	5	3	30.0			
977	Setto	1035	1043	1042	1034	5	3	30.0			

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 48 di 378

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
978	Setto	1034	1042	1044	1036	5	3	30.0			
979	Setto	1036	1044	1045	1037	5	3	30.0			
980	Setto	1037	1045	1046	1038	5	3	30.0			
981	Setto	1038	1046	1047	1039	5	3	30.0			
982	Setto	1039	1047	1048	1040	5	3	30.0			
983	Setto	1040	1048	1049	1041	5	3	30.0			
984	Setto	1041	1049	857	855	5	3	30.0			
985	Setto	1043	1051	1050	1042	5	3	30.0			
986	Setto	1042	1050	1052	1044	5	3	30.0			
987	Setto	1044	1052	1053	1045	5	3	30.0			
988	Setto	1045	1053	1054	1046	5	3	30.0			
989	Setto	1046	1054	1055	1047	5	3	30.0			
990	Setto	1047	1055	1056	1048	5	3	30.0			
991	Setto	1048	1056	1057	1049	5	3	30.0			
992	Setto	1049	1057	859	857	5	3	30.0			
993	Setto	1051	1059	1058	1050	5	3	30.0			
994	Setto	1050	1058	1060	1052	5	3	30.0			
995	Setto	1052	1060	1061	1053	5	3	30.0			
996	Setto	1053	1061	1062	1054	5	3	30.0			
997	Setto	1054	1062	1063	1055	5	3	30.0			
998	Setto	1055	1063	1064	1056	5	3	30.0			
999	Setto	1056	1064	1065	1057	5	3	30.0			
1000	Setto	1057	1065	861	859	5	3	30.0			
1001	Setto	1059	637	649	1058	5	3	30.0			
1002	Setto	1058	649	652	1060	5	3	30.0			
1003	Setto	1060	652	654	1061	5	3	30.0			
1004	Setto	1061	654	656	1062	5	3	30.0			
1005	Setto	1062	656	658	1063	5	3	30.0			
1006	Setto	1063	658	660	1064	5	3	30.0			
1007	Setto	1064	660	662	1065	5	3	30.0			
1008	Setto	1065	662	641	861	5	3	30.0			
1009	Guscio fond.	1	15	1066	582	5	8	50.0		0.60	0.30
1010	Guscio fond.	582	1066	1067	590	5	8	50.0		0.60	0.30
1011	Guscio fond.	590	1067	1068	598	5	8	50.0		0.60	0.30
1012	Guscio fond.	598	1068	1069	606	5	8	50.0		0.60	0.30
1013	Guscio fond.	606	1069	1070	614	5	8	50.0		0.60	0.30
1014	Guscio fond.	614	1070	1071	622	5	8	50.0		0.60	0.30
1015	Guscio fond.	622	1071	1072	630	5	8	50.0		0.60	0.30
1016	Guscio fond.	630	1072	222	2	5	8	50.0		0.60	0.30
1017	Guscio fond.	15	30	1073	1066	5	8	50.0		0.60	0.30
1018	Guscio fond.	1066	1073	1074	1448	5	8	50.0		0.60	0.30
1019	Guscio fond.	1067	1448	1068		5	8	50.0		0.60	0.30
1020	Guscio fond.	1068	1075	1076	1069	5	8	50.0		0.60	0.30
1021	Guscio fond.	1069	1076	1077	1070	5	8	50.0		0.60	0.30
1022	Guscio fond.	1070	1077	1078	1071	5	8	50.0		0.60	0.30
1023	Guscio fond.	1071	1078	1079	1072	5	8	50.0		0.60	0.30
1024	Guscio fond.	1072	1079	237	222	5	8	50.0		0.60	0.30
1025	Guscio fond.	30	39	1080	1073	5	8	50.0		0.60	0.30
1026	Guscio fond.	1073	1080	1081	1074	5	8	50.0		0.60	0.30
1027	Guscio fond.	1074	1081	1082	1075	5	8	50.0		0.60	0.30
1028	Guscio fond.	1075	1082	1083	1076	5	8	50.0		0.60	0.30
1029	Guscio fond.	1076	1083	1084	1077	5	8	50.0		0.60	0.30
1030	Guscio fond.	1077	1084	1085	1078	5	8	50.0		0.60	0.30
1031	Guscio fond.	1078	1085	1086	1079	5	8	50.0		0.60	0.30
1032	Guscio fond.	1079	1086	246	237	5	8	50.0		0.60	0.30
1033	Guscio fond.	39	48	1087	1080	5	8	50.0		0.60	0.30
1034	Guscio fond.	1080	1087	1088	1081	5	8	50.0		0.60	0.30
1035	Guscio fond.	1081	1088	1089	1082	5	8	50.0		0.60	0.30
1036	Guscio fond.	1082	1089	1090	1083	5	8	50.0		0.60	0.30
1037	Guscio fond.	1083	1090	1091	1084	5	8	50.0		0.60	0.30
1038	Guscio fond.	1084	1091	1092	1085	5	8	50.0		0.60	0.30
1039	Guscio fond.	1085	1092	1093	1086	5	8	50.0		0.60	0.30
1040	Guscio fond.	1086	1093	255	246	5	8	50.0		0.60	0.30
1041	Guscio fond.	48	57	1094	1087	5	8	50.0		0.60	0.30
1042	Guscio fond.	1087	1094	1095	1088	5	8	50.0		0.60	0.30
1043	Guscio fond.	1088	1095	1096	1089	5	8	50.0		0.60	0.30
1044	Guscio fond.	1089	1096	1097	1090	5	8	50.0		0.60	0.30
1045	Guscio fond.	1090	1097	1098	1091	5	8	50.0		0.60	0.30
1046	Guscio fond.	1091	1098	1099	1092	5	8	50.0		0.60	0.30
1047	Guscio fond.	1092	1099	1100	1093	5	8	50.0		0.60	0.30

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 49 di 378



Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1048	Guscio fond.	1093	1100	263	255	5	8	50.0		0.60	0.30
1049	Guscio fond.	57	66	1101	1094	5	8	50.0		0.60	0.30
1050	Guscio fond.	1094	1101	1102	1095	5	8	50.0		0.60	0.30
1051	Guscio fond.	1095	1102	1103	1096	5	8	50.0		0.60	0.30
1052	Guscio fond.	1096	1103	1104	1097	5	8	50.0		0.60	0.30
1053	Guscio fond.	1097	1104	1105	1098	5	8	50.0		0.60	0.30
1054	Guscio fond.	1098	1105	1106	1099	5	8	50.0		0.60	0.30
1055	Guscio fond.	1099	1106	1107	1100	5	8	50.0		0.60	0.30
1056	Guscio fond.	1100	1107	271	263	5	8	50.0		0.60	0.30
1057	Guscio fond.	66	75	1108	1101	5	8	50.0		0.60	0.30
1058	Guscio fond.	1101	1108	1109	1102	5	8	50.0		0.60	0.30
1059	Guscio fond.	1102	1109	1110	1103	5	8	50.0		0.60	0.30
1060	Guscio fond.	1103	1110	1111	1104	5	8	50.0		0.60	0.30
1061	Guscio fond.	1104	1111	1112	1105	5	8	50.0		0.60	0.30
1062	Guscio fond.	1105	1112	1113	1106	5	8	50.0		0.60	0.30
1063	Guscio fond.	1106	1113	1114	1107	5	8	50.0		0.60	0.30
1064	Guscio fond.	1107	1114	280	271	5	8	50.0		0.60	0.30
1065	Guscio fond.	75	84	1115	1108	5	8	50.0		0.60	0.30
1066	Guscio fond.	1108	1115	1116	1109	5	8	50.0		0.60	0.30
1067	Guscio fond.	1109	1116	1117	1110	5	8	50.0		0.60	0.30
1068	Guscio fond.	1110	1117	1118	1111	5	8	50.0		0.60	0.30
1069	Guscio fond.	1111	1118	1119	1112	5	8	50.0		0.60	0.30
1070	Guscio fond.	1112	1119	1120	1113	5	8	50.0		0.60	0.30
1071	Guscio fond.	1113	1120	1121	1114	5	8	50.0		0.60	0.30
1072	Guscio fond.	1114	1121	289	280	5	8	50.0		0.60	0.30
1073	Guscio fond.	84	93	1122	1115	5	8	50.0		0.60	0.30
1074	Guscio fond.	1115	1122	1123	1116	5	8	50.0		0.60	0.30
1075	Guscio fond.	1116	1123	1124	1117	5	8	50.0		0.60	0.30
1076	Guscio fond.	1117	1124	1125	1118	5	8	50.0		0.60	0.30
1077	Guscio fond.	1118	1125	1126	1119	5	8	50.0		0.60	0.30
1078	Guscio fond.	1119	1126	1127	1120	5	8	50.0		0.60	0.30
1079	Guscio fond.	1120	1127	1128	1121	5	8	50.0		0.60	0.30
1080	Guscio fond.	1121	1128	298	289	5	8	50.0		0.60	0.30
1081	Guscio fond.	93	102	1129	1122	5	8	50.0		0.60	0.30
1082	Guscio fond.	1122	1129	1130	1123	5	8	50.0		0.60	0.30
1083	Guscio fond.	1123	1130	1131	1124	5	8	50.0		0.60	0.30
1084	Guscio fond.	1124	1131	1132	1125	5	8	50.0		0.60	0.30
1085	Guscio fond.	1125	1132	1133	1126	5	8	50.0		0.60	0.30
1086	Guscio fond.	1126	1133	1134	1127	5	8	50.0		0.60	0.30
1087	Guscio fond.	1127	1134	1135	1128	5	8	50.0		0.60	0.30
1088	Guscio fond.	1128	1135	306	298	5	8	50.0		0.60	0.30
1089	Guscio fond.	102	111	1136	1129	5	8	50.0		0.60	0.30
1090	Guscio fond.	1129	1136	1137	1130	5	8	50.0		0.60	0.30
1091	Guscio fond.	1130	1137	1138	1131	5	8	50.0		0.60	0.30
1092	Guscio fond.	1131	1138	1139	1132	5	8	50.0		0.60	0.30
1093	Guscio fond.	1132	1139	1140	1133	5	8	50.0		0.60	0.30
1094	Guscio fond.	1133	1140	1141	1134	5	8	50.0		0.60	0.30
1095	Guscio fond.	1134	1141	1142	1135	5	8	50.0		0.60	0.30
1096	Guscio fond.	1135	1142	314	306	5	8	50.0		0.60	0.30
1097	Guscio fond.	111	120	1143	1136	5	8	50.0		0.60	0.30
1098	Guscio fond.	1136	1143	1144	1137	5	8	50.0		0.60	0.30
1099	Guscio fond.	1137	1144	1145	1138	5	8	50.0		0.60	0.30
1100	Guscio fond.	1138	1145	1146	1139	5	8	50.0		0.60	0.30
1101	Guscio fond.	1139	1146	1147	1140	5	8	50.0		0.60	0.30
1102	Guscio fond.	1140	1147	1148	1141	5	8	50.0		0.60	0.30
1103	Guscio fond.	1141	1148	1149	1142	5	8	50.0		0.60	0.30
1104	Guscio fond.	1142	1149	323	314	5	8	50.0		0.60	0.30
1105	Guscio fond.	120	129	1150	1143	5	8	50.0		0.60	0.30
1106	Guscio fond.	1143	1150	1151	1144	5	8	50.0		0.60	0.30
1107	Guscio fond.	1144	1151	1152	1145	5	8	50.0		0.60	0.30
1108	Guscio fond.	1145	1152	1153	1146	5	8	50.0		0.60	0.30
1109	Guscio fond.	1146	1153	1154	1147	5	8	50.0		0.60	0.30
1110	Guscio fond.	1147	1154	1155	1148	5	8	50.0		0.60	0.30
1111	Guscio fond.	1148	1155	1156	1149	5	8	50.0		0.60	0.30
1112	Guscio fond.	1149	1156	332	323	5	8	50.0		0.60	0.30
1113	Guscio fond.	129	138	1157	1150	5	8	50.0		0.60	0.30
1114	Guscio fond.	1150	1157	1158	1151	5	8	50.0		0.60	0.30
1115	Guscio fond.	1151	1158	1159	1152	5	8	50.0		0.60	0.30
1116	Guscio fond.	1152	1159	1160	1153	5	8	50.0		0.60	0.30
1117	Guscio fond.	1153	1160	1161	1154	5	8	50.0		0.60	0.30

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 50 di 378

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1118	Guscio fond.	1154	1161	1162	1155	5	8	50.0		0.60	0.30
1119	Guscio fond.	1155	1162	1163	1156	5	8	50.0		0.60	0.30
1120	Guscio fond.	1156	1163	341	332	5	8	50.0		0.60	0.30
1121	Guscio fond.	138	147	1164	1157	5	8	50.0		0.60	0.30
1122	Guscio fond.	1157	1164	1165	1158	5	8	50.0		0.60	0.30
1123	Guscio fond.	1158	1165	1166	1159	5	8	50.0		0.60	0.30
1124	Guscio fond.	1159	1166	1167	1160	5	8	50.0		0.60	0.30
1125	Guscio fond.	1160	1167	1168	1161	5	8	50.0		0.60	0.30
1126	Guscio fond.	1161	1168	1169	1162	5	8	50.0		0.60	0.30
1127	Guscio fond.	1162	1169	1170	1163	5	8	50.0		0.60	0.30
1128	Guscio fond.	1163	1170	350	341	5	8	50.0		0.60	0.30
1129	Guscio fond.	147	156	1171	1164	5	8	50.0		0.60	0.30
1130	Guscio fond.	1164	1171	1172	1165	5	8	50.0		0.60	0.30
1131	Guscio fond.	1165	1172	1173	1166	5	8	50.0		0.60	0.30
1132	Guscio fond.	1166	1173	1174	1167	5	8	50.0		0.60	0.30
1133	Guscio fond.	1167	1174	1175	1168	5	8	50.0		0.60	0.30
1134	Guscio fond.	1168	1175	1176	1169	5	8	50.0		0.60	0.30
1135	Guscio fond.	1169	1176	1177	1170	5	8	50.0		0.60	0.30
1136	Guscio fond.	1170	1177	359	350	5	8	50.0		0.60	0.30
1137	Guscio fond.	156	165	1178	1171	5	8	50.0		0.60	0.30
1138	Guscio fond.	1171	1178	1179	1172	5	8	50.0		0.60	0.30
1139	Guscio fond.	1172	1179	1180	1173	5	8	50.0		0.60	0.30
1140	Guscio fond.	1173	1180	1181	1174	5	8	50.0		0.60	0.30
1141	Guscio fond.	1174	1181	1182	1175	5	8	50.0		0.60	0.30
1142	Guscio fond.	1175	1182	1183	1176	5	8	50.0		0.60	0.30
1143	Guscio fond.	1176	1183	1184	1177	5	8	50.0		0.60	0.30
1144	Guscio fond.	1177	1184	368	359	5	8	50.0		0.60	0.30
1145	Guscio fond.	165	174	1185	1178	5	8	50.0		0.60	0.30
1146	Guscio fond.	1178	1185	1186	1179	5	8	50.0		0.60	0.30
1147	Guscio fond.	1179	1186	1187	1180	5	8	50.0		0.60	0.30
1148	Guscio fond.	1180	1187	1188	1181	5	8	50.0		0.60	0.30
1149	Guscio fond.	1181	1188	1189	1182	5	8	50.0		0.60	0.30
1150	Guscio fond.	1182	1189	1190	1183	5	8	50.0		0.60	0.30
1151	Guscio fond.	1183	1190	1191	1184	5	8	50.0		0.60	0.30
1152	Guscio fond.	1184	1191	376	368	5	8	50.0		0.60	0.30
1153	Guscio fond.	174	183	1192	1185	5	8	50.0		0.60	0.30
1154	Guscio fond.	1185	1192	1193	1186	5	8	50.0		0.60	0.30
1155	Guscio fond.	1186	1193	1194	1187	5	8	50.0		0.60	0.30
1156	Guscio fond.	1187	1194	1195	1188	5	8	50.0		0.60	0.30
1157	Guscio fond.	1188	1195	1196	1189	5	8	50.0		0.60	0.30
1158	Guscio fond.	1189	1196	1197	1190	5	8	50.0		0.60	0.30
1159	Guscio fond.	1190	1197	1198	1191	5	8	50.0		0.60	0.30
1160	Guscio fond.	1191	1198	385	376	5	8	50.0		0.60	0.30
1161	Guscio fond.	183	192	1199	1192	5	8	50.0		0.60	0.30
1162	Guscio fond.	1192	1199	1200	1193	5	8	50.0		0.60	0.30
1163	Guscio fond.	1193	1200	1201	1194	5	8	50.0		0.60	0.30
1164	Guscio fond.	1194	1201	1202	1195	5	8	50.0		0.60	0.30
1165	Guscio fond.	1195	1202	1203	1196	5	8	50.0		0.60	0.30
1166	Guscio fond.	1196	1203	1204	1197	5	8	50.0		0.60	0.30
1167	Guscio fond.	1197	1204	1205	1198	5	8	50.0		0.60	0.30
1168	Guscio fond.	1198	1205	394	385	5	8	50.0		0.60	0.30
1169	Guscio fond.	192	201	1206	1199	5	8	50.0		0.60	0.30
1170	Guscio fond.	1199	1206	1207	1200	5	8	50.0		0.60	0.30
1171	Guscio fond.	1200	1207	1208	1201	5	8	50.0		0.60	0.30
1172	Guscio fond.	1201	1208	1209	1202	5	8	50.0		0.60	0.30
1173	Guscio fond.	1202	1209	1210	1203	5	8	50.0		0.60	0.30
1174	Guscio fond.	1203	1210	1211	1204	5	8	50.0		0.60	0.30
1175	Guscio fond.	1204	1211	1212	1205	5	8	50.0		0.60	0.30
1176	Guscio fond.	1205	1212	403	394	5	8	50.0		0.60	0.30
1177	Guscio fond.	201	4	1213	1206	5	8	50.0		0.60	0.30
1178	Guscio fond.	1206	1213	1214	1207	5	8	50.0		0.60	0.30
1179	Guscio fond.	1207	1214	1215	1208	5	8	50.0		0.60	0.30
1180	Guscio fond.	1208	1215	1216	1209	5	8	50.0		0.60	0.30
1181	Guscio fond.	1209	1216	1217	1210	5	8	50.0		0.60	0.30
1182	Guscio fond.	1210	1217	1218	1211	5	8	50.0		0.60	0.30
1183	Guscio fond.	1211	1218	1219	1212	5	8	50.0		0.60	0.30
1184	Guscio fond.	1212	1219	5	403	5	8	50.0		0.60	0.30
1185	Guscio fond.	2	222	1220	1011	5	8	50.0		0.60	0.30
1186	Guscio fond.	1011	1220	1221	1019	5	8	50.0		0.60	0.30
1187	Guscio fond.	1019	1221	1222	1027	5	8	50.0		0.60	0.30

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1188	Guscio fond.	1027	1222	1223	1035	5	8	50.0		0.60	0.30
1189	Guscio fond.	1035	1223	1224	1043	5	8	50.0		0.60	0.30
1190	Guscio fond.	1043	1224	1225	1051	5	8	50.0		0.60	0.30
1191	Guscio fond.	1051	1225	1226	1059	5	8	50.0		0.60	0.30
1192	Guscio fond.	1059	1226	651	637	5	8	50.0		0.60	0.30
1193	Guscio fond.	222	237	1227	1220	5	8	50.0		0.60	0.30
1194	Guscio fond.	1220	1227	1228	1221	5	8	50.0		0.60	0.30
1195	Guscio fond.	1221	1228	1229	1222	5	8	50.0		0.60	0.30
1196	Guscio fond.	1222	1229	1230	1223	5	8	50.0		0.60	0.30
1197	Guscio fond.	1223	1230	1231	1224	5	8	50.0		0.60	0.30
1198	Guscio fond.	1224	1231	1232	1225	5	8	50.0		0.60	0.30
1199	Guscio fond.	1225	1232	1233	1449	5	8	50.0		0.60	0.30
1200	Guscio fond.	1226	1449	651		5	8	50.0		0.60	0.30
1201	Guscio fond.	237	246	1234	1227	5	8	50.0		0.60	0.30
1202	Guscio fond.	1227	1234	1235	1228	5	8	50.0		0.60	0.30
1203	Guscio fond.	1228	1235	1236	1229	5	8	50.0		0.60	0.30
1204	Guscio fond.	1229	1236	1237	1230	5	8	50.0		0.60	0.30
1205	Guscio fond.	1230	1237	1238	1231	5	8	50.0		0.60	0.30
1206	Guscio fond.	1231	1238	1239	1232	5	8	50.0		0.60	0.30
1207	Guscio fond.	1232	1239	1240	1233	5	8	50.0		0.60	0.30
1208	Guscio fond.	1233	1240	675	666	5	8	50.0		0.60	0.30
1209	Guscio fond.	246	255	1241	1234	5	8	50.0		0.60	0.30
1210	Guscio fond.	1234	1241	1242	1235	5	8	50.0		0.60	0.30
1211	Guscio fond.	1235	1242	1243	1236	5	8	50.0		0.60	0.30
1212	Guscio fond.	1236	1243	1244	1237	5	8	50.0		0.60	0.30
1213	Guscio fond.	1237	1244	1245	1238	5	8	50.0		0.60	0.30
1214	Guscio fond.	1238	1245	1246	1239	5	8	50.0		0.60	0.30
1215	Guscio fond.	1239	1246	1247	1240	5	8	50.0		0.60	0.30
1216	Guscio fond.	1240	1247	684	675	5	8	50.0		0.60	0.30
1217	Guscio fond.	255	263	1248	1241	5	8	50.0		0.60	0.30
1218	Guscio fond.	1241	1248	1249	1242	5	8	50.0		0.60	0.30
1219	Guscio fond.	1242	1249	1250	1243	5	8	50.0		0.60	0.30
1220	Guscio fond.	1243	1250	1251	1244	5	8	50.0		0.60	0.30
1221	Guscio fond.	1244	1251	1252	1245	5	8	50.0		0.60	0.30
1222	Guscio fond.	1245	1252	1253	1246	5	8	50.0		0.60	0.30
1223	Guscio fond.	1246	1253	1254	1247	5	8	50.0		0.60	0.30
1224	Guscio fond.	1247	1254	692	684	5	8	50.0		0.60	0.30
1225	Guscio fond.	263	271	1255	1248	5	8	50.0		0.60	0.30
1226	Guscio fond.	1248	1255	1256	1249	5	8	50.0		0.60	0.30
1227	Guscio fond.	1249	1256	1257	1250	5	8	50.0		0.60	0.30
1228	Guscio fond.	1250	1257	1258	1251	5	8	50.0		0.60	0.30
1229	Guscio fond.	1251	1258	1259	1252	5	8	50.0		0.60	0.30
1230	Guscio fond.	1252	1259	1260	1253	5	8	50.0		0.60	0.30
1231	Guscio fond.	1253	1260	1261	1254	5	8	50.0		0.60	0.30
1232	Guscio fond.	1254	1261	700	692	5	8	50.0		0.60	0.30
1233	Guscio fond.	271	280	1262	1255	5	8	50.0		0.60	0.30
1234	Guscio fond.	1255	1262	1263	1256	5	8	50.0		0.60	0.30
1235	Guscio fond.	1256	1263	1264	1257	5	8	50.0		0.60	0.30
1236	Guscio fond.	1257	1264	1265	1258	5	8	50.0		0.60	0.30
1237	Guscio fond.	1258	1265	1266	1259	5	8	50.0		0.60	0.30
1238	Guscio fond.	1259	1266	1267	1260	5	8	50.0		0.60	0.30
1239	Guscio fond.	1260	1267	1268	1261	5	8	50.0		0.60	0.30
1240	Guscio fond.	1261	1268	709	700	5	8	50.0		0.60	0.30
1241	Guscio fond.	280	289	1269	1262	5	8	50.0		0.60	0.30
1242	Guscio fond.	1262	1269	1270	1263	5	8	50.0		0.60	0.30
1243	Guscio fond.	1263	1270	1271	1264	5	8	50.0		0.60	0.30
1244	Guscio fond.	1264	1271	1272	1265	5	8	50.0		0.60	0.30
1245	Guscio fond.	1265	1272	1273	1266	5	8	50.0		0.60	0.30
1246	Guscio fond.	1266	1273	1274	1267	5	8	50.0		0.60	0.30
1247	Guscio fond.	1267	1274	1275	1268	5	8	50.0		0.60	0.30
1248	Guscio fond.	1268	1275	718	709	5	8	50.0		0.60	0.30
1249	Guscio fond.	289	298	1276	1269	5	8	50.0		0.60	0.30
1250	Guscio fond.	1269	1276	1277	1270	5	8	50.0		0.60	0.30
1251	Guscio fond.	1270	1277	1278	1271	5	8	50.0		0.60	0.30
1252	Guscio fond.	1271	1278	1279	1272	5	8	50.0		0.60	0.30
1253	Guscio fond.	1272	1279	1280	1273	5	8	50.0		0.60	0.30
1254	Guscio fond.	1273	1280	1281	1274	5	8	50.0		0.60	0.30
1255	Guscio fond.	1274	1281	1282	1275	5	8	50.0		0.60	0.30
1256	Guscio fond.	1275	1282	727	718	5	8	50.0		0.60	0.30
1257	Guscio fond.	298	306	1283	1276	5	8	50.0		0.60	0.30

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1258	Guscio fond.	1276	1283	1284	1277	5	8	50.0		0.60	0.30
1259	Guscio fond.	1277	1284	1285	1278	5	8	50.0		0.60	0.30
1260	Guscio fond.	1278	1285	1286	1279	5	8	50.0		0.60	0.30
1261	Guscio fond.	1279	1286	1287	1280	5	8	50.0		0.60	0.30
1262	Guscio fond.	1280	1287	1288	1281	5	8	50.0		0.60	0.30
1263	Guscio fond.	1281	1288	1289	1282	5	8	50.0		0.60	0.30
1264	Guscio fond.	1282	1289	735	727	5	8	50.0		0.60	0.30
1265	Guscio fond.	306	314	1290	1283	5	8	50.0		0.60	0.30
1266	Guscio fond.	1283	1290	1291	1284	5	8	50.0		0.60	0.30
1267	Guscio fond.	1284	1291	1292	1285	5	8	50.0		0.60	0.30
1268	Guscio fond.	1285	1292	1293	1286	5	8	50.0		0.60	0.30
1269	Guscio fond.	1286	1293	1294	1287	5	8	50.0		0.60	0.30
1270	Guscio fond.	1287	1294	1295	1288	5	8	50.0		0.60	0.30
1271	Guscio fond.	1288	1295	1296	1289	5	8	50.0		0.60	0.30
1272	Guscio fond.	1289	1296	743	735	5	8	50.0		0.60	0.30
1273	Guscio fond.	314	323	1297	1290	5	8	50.0		0.60	0.30
1274	Guscio fond.	1290	1297	1298	1291	5	8	50.0		0.60	0.30
1275	Guscio fond.	1291	1298	1299	1292	5	8	50.0		0.60	0.30
1276	Guscio fond.	1292	1299	1300	1293	5	8	50.0		0.60	0.30
1277	Guscio fond.	1293	1300	1301	1294	5	8	50.0		0.60	0.30
1278	Guscio fond.	1294	1301	1302	1295	5	8	50.0		0.60	0.30
1279	Guscio fond.	1295	1302	1303	1296	5	8	50.0		0.60	0.30
1280	Guscio fond.	1296	1303	752	743	5	8	50.0		0.60	0.30
1281	Guscio fond.	323	332	1304	1297	5	8	50.0		0.60	0.30
1282	Guscio fond.	1297	1304	1305	1298	5	8	50.0		0.60	0.30
1283	Guscio fond.	1298	1305	1306	1299	5	8	50.0		0.60	0.30
1284	Guscio fond.	1299	1306	1307	1300	5	8	50.0		0.60	0.30
1285	Guscio fond.	1300	1307	1308	1301	5	8	50.0		0.60	0.30
1286	Guscio fond.	1301	1308	1309	1302	5	8	50.0		0.60	0.30
1287	Guscio fond.	1302	1309	1310	1303	5	8	50.0		0.60	0.30
1288	Guscio fond.	1303	1310	761	752	5	8	50.0		0.60	0.30
1289	Guscio fond.	332	341	1311	1304	5	8	50.0		0.60	0.30
1290	Guscio fond.	1304	1311	1312	1305	5	8	50.0		0.60	0.30
1291	Guscio fond.	1305	1312	1313	1306	5	8	50.0		0.60	0.30
1292	Guscio fond.	1306	1313	1314	1307	5	8	50.0		0.60	0.30
1293	Guscio fond.	1307	1314	1315	1308	5	8	50.0		0.60	0.30
1294	Guscio fond.	1308	1315	1316	1309	5	8	50.0		0.60	0.30
1295	Guscio fond.	1309	1316	1317	1310	5	8	50.0		0.60	0.30
1296	Guscio fond.	1310	1317	770	761	5	8	50.0		0.60	0.30
1297	Guscio fond.	341	350	1318	1311	5	8	50.0		0.60	0.30
1298	Guscio fond.	1311	1318	1319	1312	5	8	50.0		0.60	0.30
1299	Guscio fond.	1312	1319	1320	1313	5	8	50.0		0.60	0.30
1300	Guscio fond.	1313	1320	1321	1314	5	8	50.0		0.60	0.30
1301	Guscio fond.	1314	1321	1322	1315	5	8	50.0		0.60	0.30
1302	Guscio fond.	1315	1322	1323	1316	5	8	50.0		0.60	0.30
1303	Guscio fond.	1316	1323	1324	1317	5	8	50.0		0.60	0.30
1304	Guscio fond.	1317	1324	779	770	5	8	50.0		0.60	0.30
1305	Guscio fond.	350	359	1325	1318	5	8	50.0		0.60	0.30
1306	Guscio fond.	1318	1325	1326	1319	5	8	50.0		0.60	0.30
1307	Guscio fond.	1319	1326	1327	1320	5	8	50.0		0.60	0.30
1308	Guscio fond.	1320	1327	1328	1321	5	8	50.0		0.60	0.30
1309	Guscio fond.	1321	1328	1329	1322	5	8	50.0		0.60	0.30
1310	Guscio fond.	1322	1329	1330	1323	5	8	50.0		0.60	0.30
1311	Guscio fond.	1323	1330	1331	1324	5	8	50.0		0.60	0.30
1312	Guscio fond.	1324	1331	788	779	5	8	50.0		0.60	0.30
1313	Guscio fond.	359	368	1332	1325	5	8	50.0		0.60	0.30
1314	Guscio fond.	1325	1332	1333	1326	5	8	50.0		0.60	0.30
1315	Guscio fond.	1326	1333	1334	1327	5	8	50.0		0.60	0.30
1316	Guscio fond.	1327	1334	1335	1328	5	8	50.0		0.60	0.30
1317	Guscio fond.	1328	1335	1336	1329	5	8	50.0		0.60	0.30
1318	Guscio fond.	1329	1336	1337	1330	5	8	50.0		0.60	0.30
1319	Guscio fond.	1330	1337	1338	1331	5	8	50.0		0.60	0.30
1320	Guscio fond.	1331	1338	797	788	5	8	50.0		0.60	0.30
1321	Guscio fond.	368	376	1339	1332	5	8	50.0		0.60	0.30
1322	Guscio fond.	1332	1339	1340	1333	5	8	50.0		0.60	0.30
1323	Guscio fond.	1333	1340	1341	1334	5	8	50.0		0.60	0.30
1324	Guscio fond.	1334	1341	1342	1335	5	8	50.0		0.60	0.30
1325	Guscio fond.	1335	1342	1343	1336	5	8	50.0		0.60	0.30
1326	Guscio fond.	1336	1343	1344	1337	5	8	50.0		0.60	0.30
1327	Guscio fond.	1337	1344	1345	1338	5	8	50.0		0.60	0.30

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1328	Guscio fond.	1338	1345	805	797	5	8	50.0		0.60	0.30
1329	Guscio fond.	376	385	1346	1339	5	8	50.0		0.60	0.30
1330	Guscio fond.	1339	1346	1347	1340	5	8	50.0		0.60	0.30
1331	Guscio fond.	1340	1347	1348	1341	5	8	50.0		0.60	0.30
1332	Guscio fond.	1341	1348	1349	1342	5	8	50.0		0.60	0.30
1333	Guscio fond.	1342	1349	1350	1343	5	8	50.0		0.60	0.30
1334	Guscio fond.	1343	1350	1351	1344	5	8	50.0		0.60	0.30
1335	Guscio fond.	1344	1351	1352	1345	5	8	50.0		0.60	0.30
1336	Guscio fond.	1345	1352	814	805	5	8	50.0		0.60	0.30
1337	Guscio fond.	385	394	1353	1346	5	8	50.0		0.60	0.30
1338	Guscio fond.	1346	1353	1354	1347	5	8	50.0		0.60	0.30
1339	Guscio fond.	1347	1354	1355	1348	5	8	50.0		0.60	0.30
1340	Guscio fond.	1348	1355	1356	1349	5	8	50.0		0.60	0.30
1341	Guscio fond.	1349	1356	1357	1350	5	8	50.0		0.60	0.30
1342	Guscio fond.	1350	1357	1358	1351	5	8	50.0		0.60	0.30
1343	Guscio fond.	1351	1358	1359	1352	5	8	50.0		0.60	0.30
1344	Guscio fond.	1352	1359	823	814	5	8	50.0		0.60	0.30
1345	Guscio fond.	394	403	1360	1353	5	8	50.0		0.60	0.30
1346	Guscio fond.	1353	1360	1361	1354	5	8	50.0		0.60	0.30
1347	Guscio fond.	1354	1361	1362	1355	5	8	50.0		0.60	0.30
1348	Guscio fond.	1355	1362	1363	1356	5	8	50.0		0.60	0.30
1349	Guscio fond.	1356	1363	1364	1357	5	8	50.0		0.60	0.30
1350	Guscio fond.	1357	1364	1365	1358	5	8	50.0		0.60	0.30
1351	Guscio fond.	1358	1365	1366	1359	5	8	50.0		0.60	0.30
1352	Guscio fond.	1359	1366	832	823	5	8	50.0		0.60	0.30
1353	Guscio fond.	403	5	1367	1360	5	8	50.0		0.60	0.30
1354	Guscio fond.	1360	1367	1368	1361	5	8	50.0		0.60	0.30
1355	Guscio fond.	1361	1368	1369	1362	5	8	50.0		0.60	0.30
1356	Guscio fond.	1362	1369	1370	1363	5	8	50.0		0.60	0.30
1357	Guscio fond.	1363	1370	1371	1364	5	8	50.0		0.60	0.30
1358	Guscio fond.	1364	1371	1372	1365	5	8	50.0		0.60	0.30
1359	Guscio fond.	1365	1372	1373	1366	5	8	50.0		0.60	0.30
1360	Guscio fond.	1366	1373	639	832	5	8	50.0		0.60	0.30
1361	Guscio fond.	1440	1442	15	1	5	8	50.0		0.60	0.30
1362	Guscio fond.	1442	1443	30	15	5	8	50.0		0.60	0.30
1363	Guscio fond.	1443	1444	39	30	5	8	50.0		0.60	0.30
1364	Guscio fond.	1444	1445	48	39	5	8	50.0		0.60	0.30
1365	Guscio fond.	1445	1446	57	48	5	8	50.0		0.60	0.30
1366	Guscio fond.	1446	1447	66	57	5	8	50.0		0.60	0.30
1367	Guscio fond.	1447	216	75	66	5	8	50.0		0.60	0.30
1368	Guscio fond.	216	217	84	75	5	8	50.0		0.60	0.30
1369	Guscio fond.	217	218	93	84	5	8	50.0		0.60	0.30
1370	Guscio fond.	218	219	102	93	5	8	50.0		0.60	0.30
1371	Guscio fond.	219	419	111	102	5	8	50.0		0.60	0.30
1372	Guscio fond.	419	645	120	111	5	8	50.0		0.60	0.30
1373	Guscio fond.	645	646	129	120	5	8	50.0		0.60	0.30
1374	Guscio fond.	646	647	138	129	5	8	50.0		0.60	0.30
1375	Guscio fond.	647	648	147	138	5	8	50.0		0.60	0.30
1376	Guscio fond.	648	848	156	147	5	8	50.0		0.60	0.30
1377	Guscio fond.	848	1376	165	156	5	8	50.0		0.60	0.30
1378	Guscio fond.	1376	1377	174	165	5	8	50.0		0.60	0.30
1379	Guscio fond.	1377	1379	183	174	5	8	50.0		0.60	0.30
1380	Guscio fond.	1379	1380	192	183	5	8	50.0		0.60	0.30
1381	Guscio fond.	1380	1397	201	192	5	8	50.0		0.60	0.30
1382	Guscio fond.	1397	1441	4	201	5	8	50.0		0.60	0.30
1383	Guscio fond.	637	651	1418	1414	5	8	50.0		0.60	0.30
1384	Guscio fond.	651	666	1419	1418	5	8	50.0		0.60	0.30
1385	Guscio fond.	666	675	1420	1419	5	8	50.0		0.60	0.30
1386	Guscio fond.	675	684	1421	1420	5	8	50.0		0.60	0.30
1387	Guscio fond.	684	692	1422	1421	5	8	50.0		0.60	0.30
1388	Guscio fond.	692	700	1423	1422	5	8	50.0		0.60	0.30
1389	Guscio fond.	700	709	1424	1423	5	8	50.0		0.60	0.30
1390	Guscio fond.	709	718	1425	1424	5	8	50.0		0.60	0.30
1391	Guscio fond.	718	727	1426	1425	5	8	50.0		0.60	0.30
1392	Guscio fond.	727	735	1427	1426	5	8	50.0		0.60	0.30
1393	Guscio fond.	735	743	1428	1427	5	8	50.0		0.60	0.30
1394	Guscio fond.	743	752	1429	1428	5	8	50.0		0.60	0.30
1395	Guscio fond.	752	761	1430	1429	5	8	50.0		0.60	0.30
1396	Guscio fond.	761	770	1431	1430	5	8	50.0		0.60	0.30
1397	Guscio fond.	770	779	1432	1431	5	8	50.0		0.60	0.30

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
1398	Guscio fond.	779	788	1433	1432	5	8	50.0		0.60	0.30
1399	Guscio fond.	788	797	1434	1433	5	8	50.0		0.60	0.30
1400	Guscio fond.	797	805	1435	1434	5	8	50.0		0.60	0.30
1401	Guscio fond.	805	814	1436	1435	5	8	50.0		0.60	0.30
1402	Guscio fond.	814	823	1437	1436	5	8	50.0		0.60	0.30
1403	Guscio fond.	823	832	1438	1437	5	8	50.0		0.60	0.30
1404	Guscio fond.	832	639	1415	1438	5	8	50.0		0.60	0.30
1405	Guscio fond.	1395	1	582	1398	5	8	50.0		0.60	0.30
1406	Guscio fond.	1398	582	590	1399	5	8	50.0		0.60	0.30
1407	Guscio fond.	1399	590	598	1400	5	8	50.0		0.60	0.30
1408	Guscio fond.	1400	598	606	1401	5	8	50.0		0.60	0.30
1409	Guscio fond.	1401	606	614	1402	5	8	50.0		0.60	0.30
1410	Guscio fond.	1402	614	622	1403	5	8	50.0		0.60	0.30
1411	Guscio fond.	1403	622	630	1404	5	8	50.0		0.60	0.30
1412	Guscio fond.	1404	630	2	1396	5	8	50.0		0.60	0.30
1413	Guscio fond.	1396	2	1011	1407	5	8	50.0		0.60	0.30
1414	Guscio fond.	1407	1011	1019	1408	5	8	50.0		0.60	0.30
1415	Guscio fond.	1408	1019	1027	1409	5	8	50.0		0.60	0.30
1416	Guscio fond.	1409	1027	1035	1410	5	8	50.0		0.60	0.30
1417	Guscio fond.	1410	1035	1043	1411	5	8	50.0		0.60	0.30
1418	Guscio fond.	1411	1043	1051	1412	5	8	50.0		0.60	0.30
1419	Guscio fond.	1412	1051	1059	1413	5	8	50.0		0.60	0.30
1420	Guscio fond.	1413	1059	637	1405	5	8	50.0		0.60	0.30
1421	Guscio fond.	4	1374	1381	1213	5	8	50.0		0.60	0.30
1422	Guscio fond.	1213	1381	1382	1214	5	8	50.0		0.60	0.30
1423	Guscio fond.	1214	1382	1383	1215	5	8	50.0		0.60	0.30
1424	Guscio fond.	1215	1383	1384	1216	5	8	50.0		0.60	0.30
1425	Guscio fond.	1216	1384	1385	1217	5	8	50.0		0.60	0.30
1426	Guscio fond.	1217	1385	1386	1218	5	8	50.0		0.60	0.30
1427	Guscio fond.	1218	1386	1387	1219	5	8	50.0		0.60	0.30
1428	Guscio fond.	1219	1387	1375	5	5	8	50.0		0.60	0.30
1429	Guscio fond.	5	1375	1388	1367	5	8	50.0		0.60	0.30
1430	Guscio fond.	1367	1388	1389	1368	5	8	50.0		0.60	0.30
1431	Guscio fond.	1368	1389	1390	1369	5	8	50.0		0.60	0.30
1432	Guscio fond.	1369	1390	1391	1370	5	8	50.0		0.60	0.30
1433	Guscio fond.	1370	1391	1392	1371	5	8	50.0		0.60	0.30
1434	Guscio fond.	1371	1392	1393	1372	5	8	50.0		0.60	0.30
1435	Guscio fond.	1372	1393	1394	1373	5	8	50.0		0.60	0.30
1436	Guscio fond.	1373	1394	1378	639	5	8	50.0		0.60	0.30
1437	Guscio fond.	1405	637	1414	1416	5	8	50.0		0.60	0.30
1438	Guscio fond.	1439	1440	1	1395	5	8	50.0		0.60	0.30
1439	Guscio fond.	1441	1417	1374	4	5	8	50.0		0.60	0.30
1440	Guscio fond.	639	1378	1406	1415	5	8	50.0		0.60	0.30
1441	Guscio fond.	1226	1225	1449		5	8	50.0		0.60	0.30
1442	Guscio fond.	651	1449	666		5	8	50.0		0.60	0.30
1443	Guscio fond.	1449	1233	666		5	8	50.0		0.60	0.30
1444	Guscio fond.	1067	1066	1448		5	8	50.0		0.60	0.30
1445	Guscio fond.	1448	1074	1075	1068	5	8	50.0		0.60	0.30

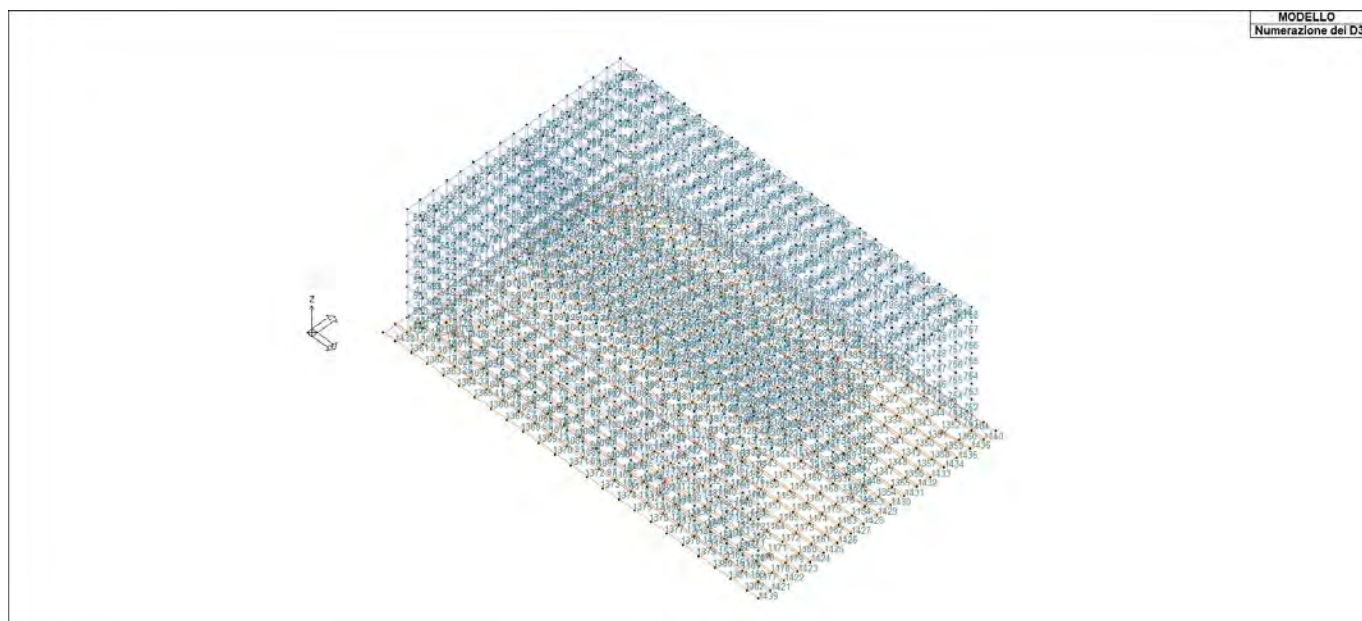


Figura 8 - MOD_NUMERAZIONE_D3

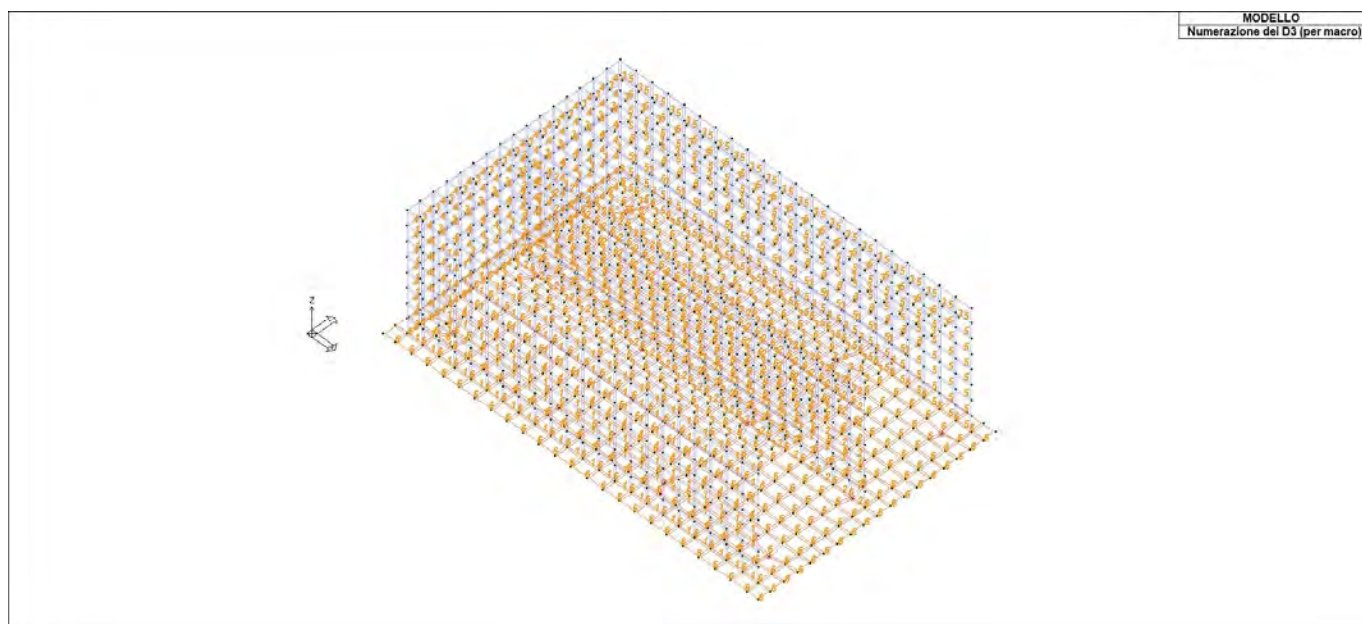


Figura 9 - MOD_NUMERAZIONE_D3_MACRO

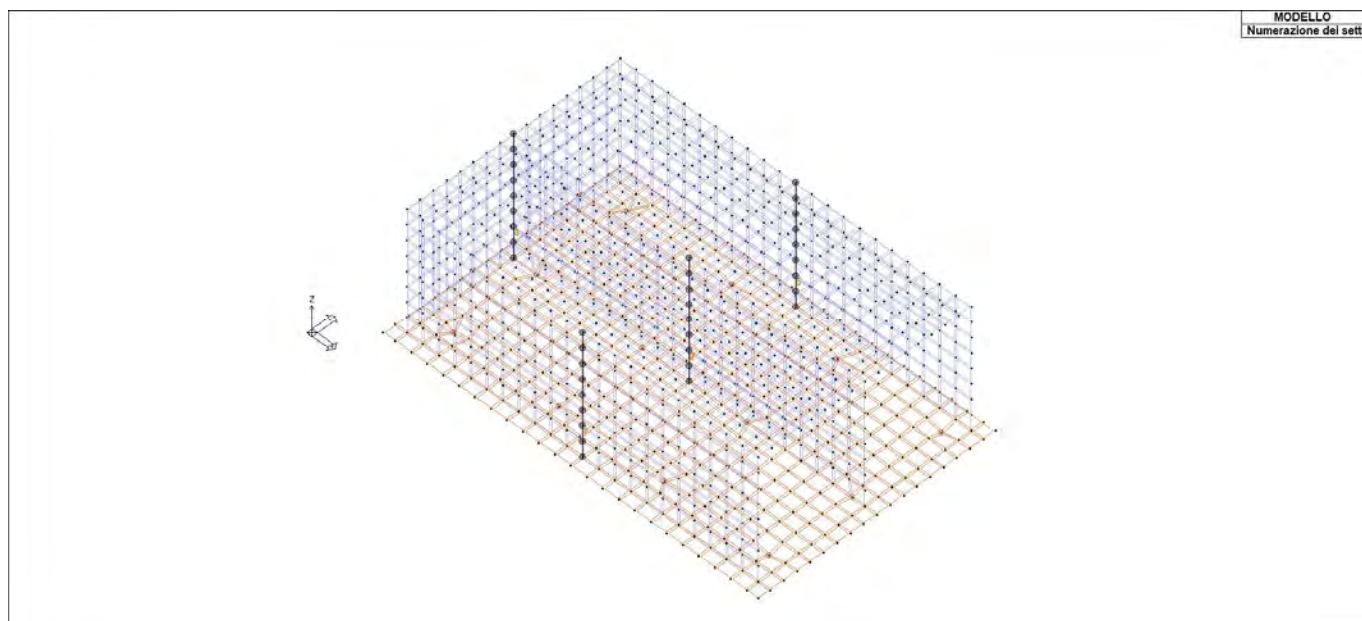


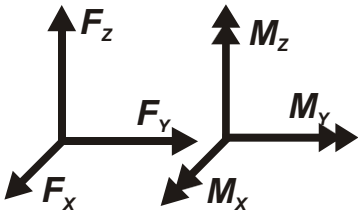
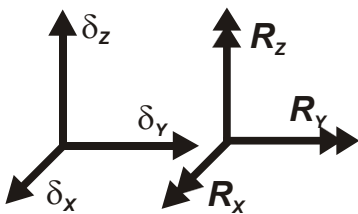
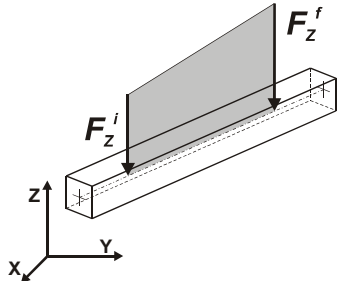
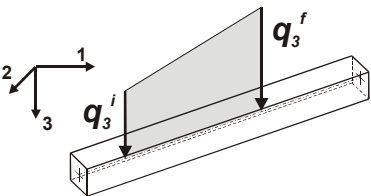
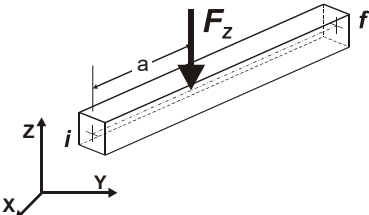
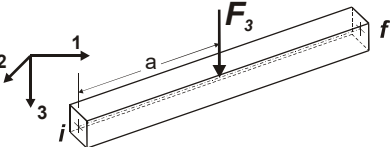
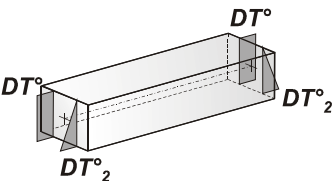
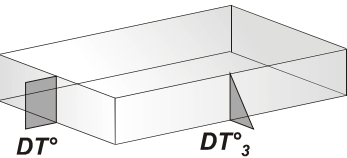
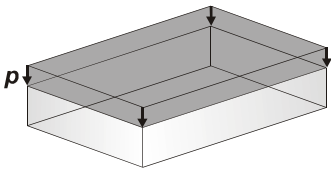
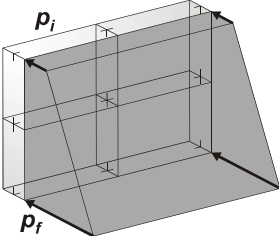
Figura 10 - MOD_NUMERAZIONE_D3_PARETI

8 MODELLAZIONE DELLE AZIONI

8.1 LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	carico concentrato nodale 6 dati (forza F_x , F_y , F_z , momento M_x , M_y , M_z)
2	spostamento nodale impresso 6 dati (spostamento T_x, T_y, T_z , rotazione R_x, R_y, R_z)
3	carico distribuito globale su elemento tipo trave 7 dati ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di inizio carico) 7 dati ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di inizio carico) 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati ($F_x, F_y, F_z, M_x, M_y, M_z$, ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati ($F_1, F_2, F_3, M_1, M_2, M_3$, ascissa di carico)
7	variazione termica applicata ad elemento tipo trave 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	carico di pressione uniforme su elemento tipo piastra 1 dato (pressione)
9	carico di pressione variabile su elemento tipo piastra 4 dati (pressione, quota, pressione, quota)
10	variazione termica applicata ad elemento tipo piastra 2 dati (variazioni termiche: media e differenza nello spessore)
11	carico variabile generale su elementi tipo trave e piastra 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	gruppo di carichi con impronta su piastra 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell'impronta, interasse tra i carichi)

 Carico concentrato nodale	 Spostamento impresso
 Carico distribuito globale	 Carico distribuito locale
 Carico concentrato globale	 Carico concentrato locale
 Carico termico 2D	 Carico termico 3D
 Carico pressione uniforme	 Carico pressione variabile

Tipo carico di pressione uniforme su piastra

Id	Tipo	pressione
		daN/cm2
7	QVK PAN ++ vento - P3:p= 8.500e-03	8.50e-03
8	QVK PAN -- vento - P3:p= 8.500e-03	8.50e-03

Tipo variazione termica applicata a piastra

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BOX CARRI BOMBOLAI TABULATI DI CALCOLO

REV. 00

Pag. 59 di 378

Id	Tipo	DT uniforme	DT 3-3
		C	C
14	DT -10 - T3:DT=-10.00	-10.00	0.0
15	DT +42 - T3:DT=42.00	42.00	0.0

Tipo	carico variabile generale

Id	Tipo	ascissa	valore	ascissa	valore
		cm	daN/cm2	cm	daN/cm2
9	C.P. PAV. IND - QV:unif - Qz - Area				
	Unif. Qz Area L2=0.0		-0.02		
10	C.P. SOL - QV:unif - Qz - Area				
	Unif. Qz Area L2=0.0		-0.02		
11	C.ACC. MANUT - QV:unif - Qz - Area				
	Unif. Qz Area L2=0.0		-0.01		
12	C.ACC. NEVE - QV:unif - Qz - Area				
	Unif. Qz Area L2=0.0		-0.01		
13	C.ACC. CAT.G. CAR_BOM - QV:unif - Qz - Area				
	Unif. Qz Area L2=0.0		-0.05		

9 SCHEMATIZZAZIONE DEI CASI DI CARICO

9.1 LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

Sono previsti i seguenti 11 tipi di casi di carico:

	Sigla	Tipo	Descrizione
1	Ggk	A	caso di carico comprensivo del peso proprio struttura
2	Gk	NA	caso di carico con azioni permanenti
3	Qk	NA	caso di carico con azioni variabili
4	Gsk	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	Qsk	A	caso di carico comprensivo dei carichi variabili sui solai
6	Qnk	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	Qtk	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	Qvk	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	Esk	SA	caso di carico sismico con analisi statica equivalente
10	Edk	SA	caso di carico sismico con analisi dinamica
11	Etk	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	Pk	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di tipo automatico A (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico SA (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).

In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

CDC	Tipo	Sigla Id	Note	Per non automatici:
1	Ggk	CDC=Ggk (peso proprio della struttura)		
2	Gk	CDC=G2k (permanente generico n.c.d.) PAV	Azioni applicate:	Ad elementi:

CDC	Tipo	Sigla Id	Note	Per non automatici:
3	Gk	CDC=G2k (permanente generico n.c.d.) SOL	[9] C.P. PAV. IND - QV:unif - Qz - Area Azioni applicate:	D3: 1009 # 1444 Ad elementi:
4	Qk	CDC=Qk (variabile generico) MANU	[10] C.P. SOL - QV:unif - Qz - Area Azioni applicate:	D3: 353 # 528, 769 # 944 Ad elementi:
5	Qk	CDC=Qk (variabile generico) NEVE	[11] C.ACC. MANUT - QV:unif - Qz - Area Azioni applicate:	D3: 353 # 528, 769 # 944 Ad elementi:
6	Qk	CDC=Qk (variabile generico) STALLO_1	[12] C.ACC. NEVE - QV:unif - Qz - Area Azioni applicate:	D3: 353 # 528, 769 # 944 Ad elementi:
7	Qk	CDC=Qk (variabile generico) STALLO_2	[13] C.ACC. CAT.G. CAR_BOM - QV:unif - Qz - Area Azioni applicate:	D3: 1009 # 1184, 1421 # 1428 Ad elementi:
8	Qk	CDC=Qk (variabile generico) TERMICO DT-10	[13] C.ACC. CAT.G. CAR_BOM - QV:unif - Qz - Area Azioni applicate:	D3: 1185 # 1360, 1429 # 1436, 1441 # 1443 Ad elementi:
9	Qk	CDC=Qk (variabile generico) TERMICO DT+42	[14] DT -10 - T3:DT=-10.00 Azioni applicate:	D3: 1 # 1444 Ad elementi:
10	Qvk	CDC=Qvk (carico da vento) dir X +	[15] DT +42 - T3:DT=42.00 Azioni applicate:	D3: 1 # 1444 Ad elementi:
11	Qvk	CDC=Qvk (carico da vento) dir X -	[7] QVK PAN ++ vento - P3:p= 8.500e-03 Azioni applicate:	D3: 529 # 592, 945 # 1008 Ad elementi:
12	Qvk	CDC=Qvk (carico da vento) dir Y +	[8] QVK PAN -- vento - P3:p= 8.500e-03 Azioni applicate:	D3: 529 # 592, 945 # 1008 Ad elementi:
13	Qvk	CDC=Qvk (carico da vento) dir Y -	[7] QVK PAN ++ vento - P3:p= 8.500e-03 Azioni applicate:	D3: 1 # 176, 593 # 768 Ad elementi:
14	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	[8] QVK PAN -- vento - P3:p= 8.500e-03 Azioni applicate:	D3: 1 # 176, 593 # 768 Ad elementi:
15	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura) partecipazione:1.00 per 2 CDC=G2k (permanente generico n.c.d.) PAV partecipazione:1.00 per 3 CDC=G2k (permanente generico n.c.d.) SOL partecipazione:1.00 per 4 CDC=Qk (variabile generico) MANU partecipazione:1.00 per 5 CDC=Qk (variabile generico) NEVE partecipazione:1.00 per 6 CDC=Qk (variabile generico) STALLO_1 partecipazione:1.00 per 7 CDC=Qk (variabile generico) STALLO_2 partecipazione:1.00 per 8 CDC=Qk (variabile generico) TERMICO DT-10 partecipazione:1.00 per 9 CDC=Qk (variabile generico) TERMICO DT+42	
16	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico	
17	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico	
18	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico	
19	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico	
20	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico	
21	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico	
22	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	come precedente CDC sismico	
23	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	come precedente CDC sismico	
24	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	come precedente CDC sismico	

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 62 di 378

CDC	Tipo	Sigla Id	Note	Per non automatici:
25	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	come precedente CDC sismico	



Figura 11 - CDC_001_CDCGgk peso proprio della struttura

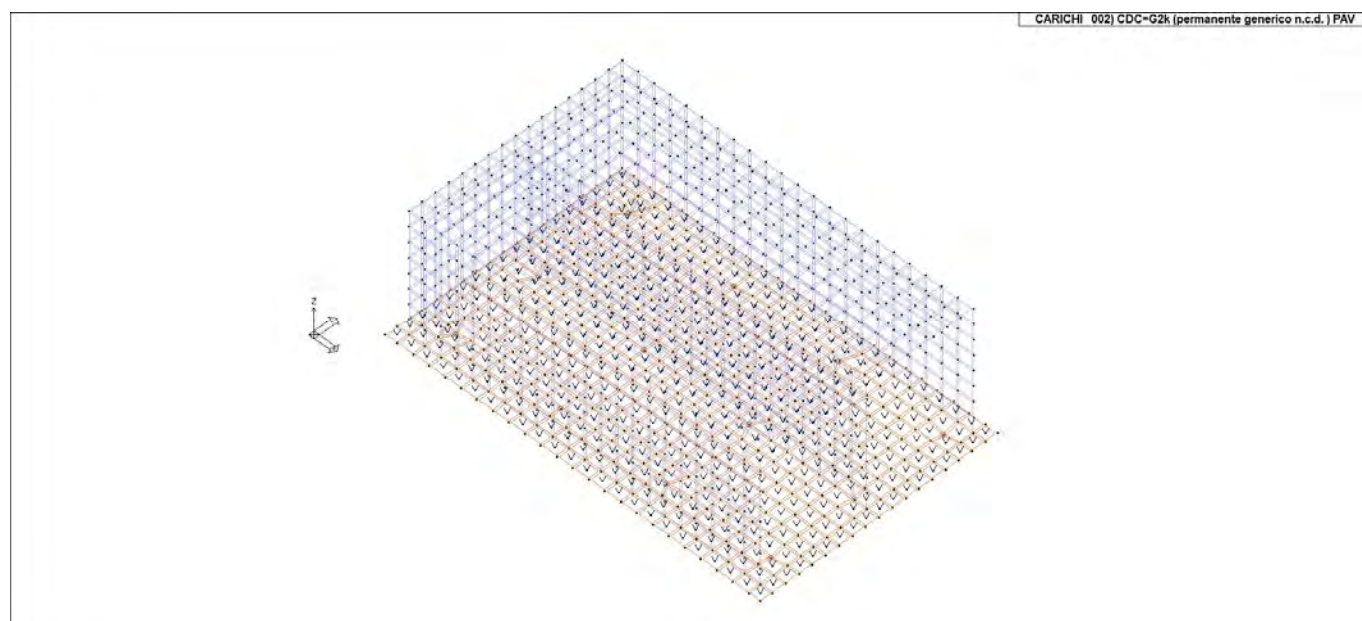


Figura 12 - CDC_002_CDCG2k permanente generico ncd PAV

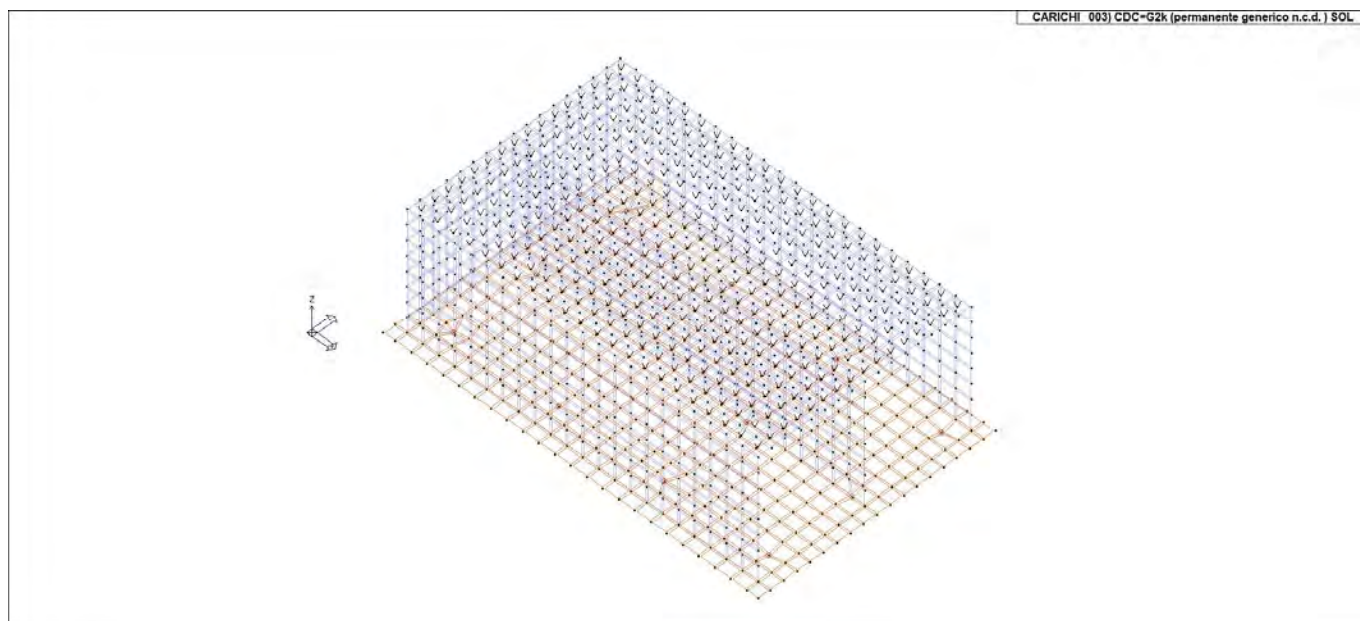


Figura 13 - CDC_003_CDCG2k permanente generico ncd SOL

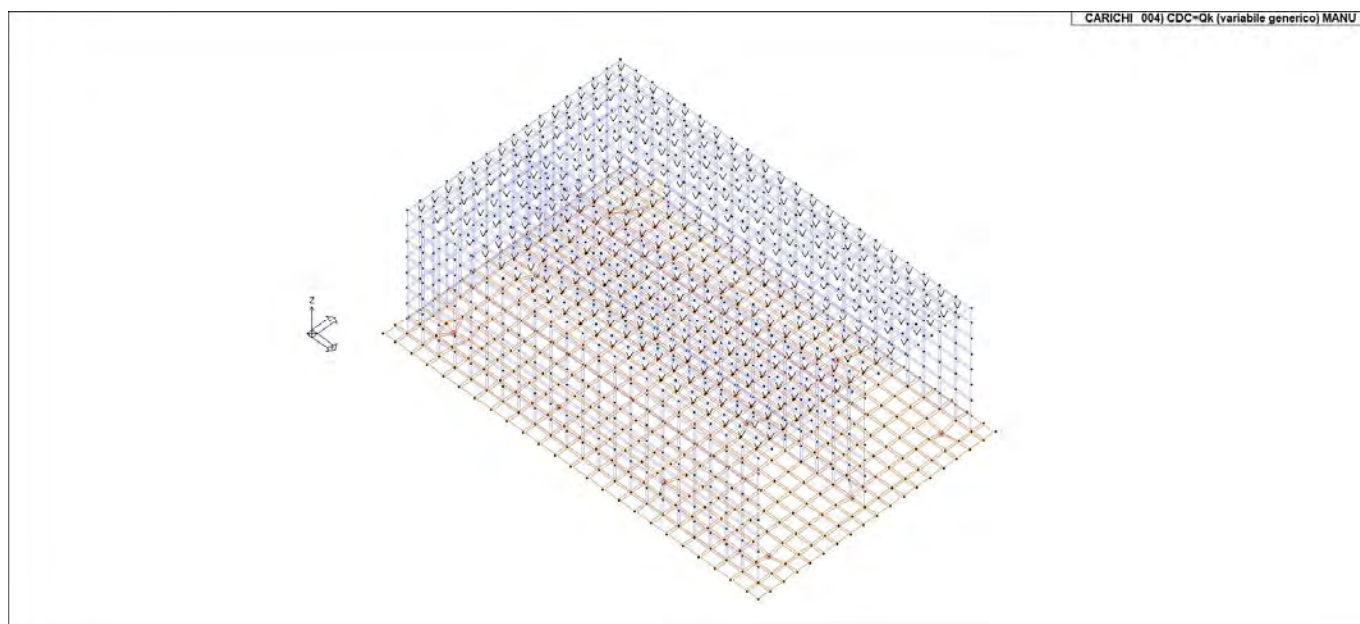


Figura 14 - CDC_004_CDCQk variabile generico MANU

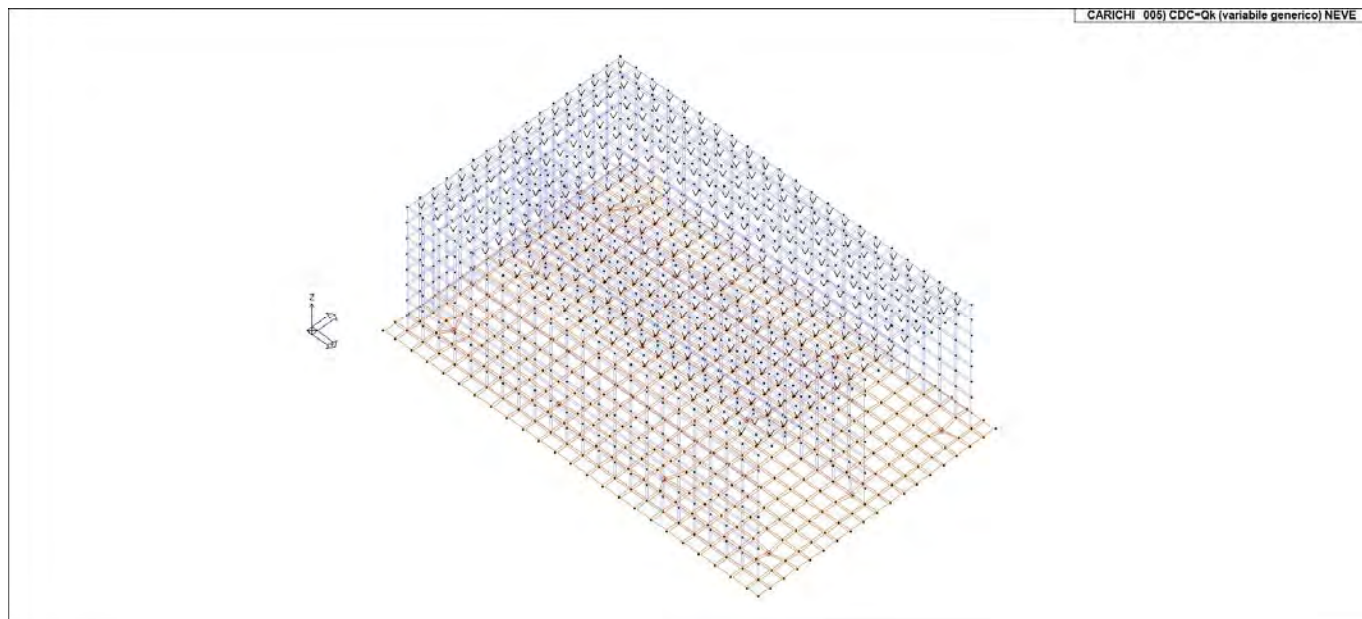


Figura 15 - CDC_005_CDCQk variabile generico NEVE

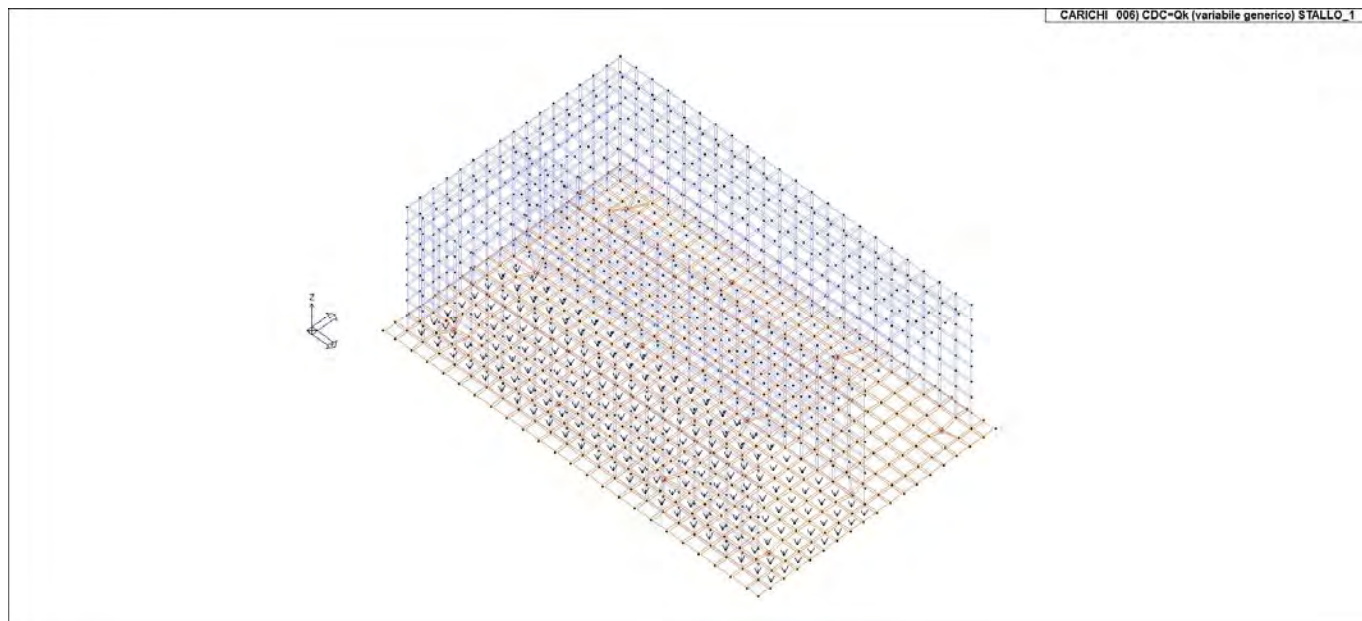


Figura 16 - CDC_006_CDCQk variabile generico STALLO1

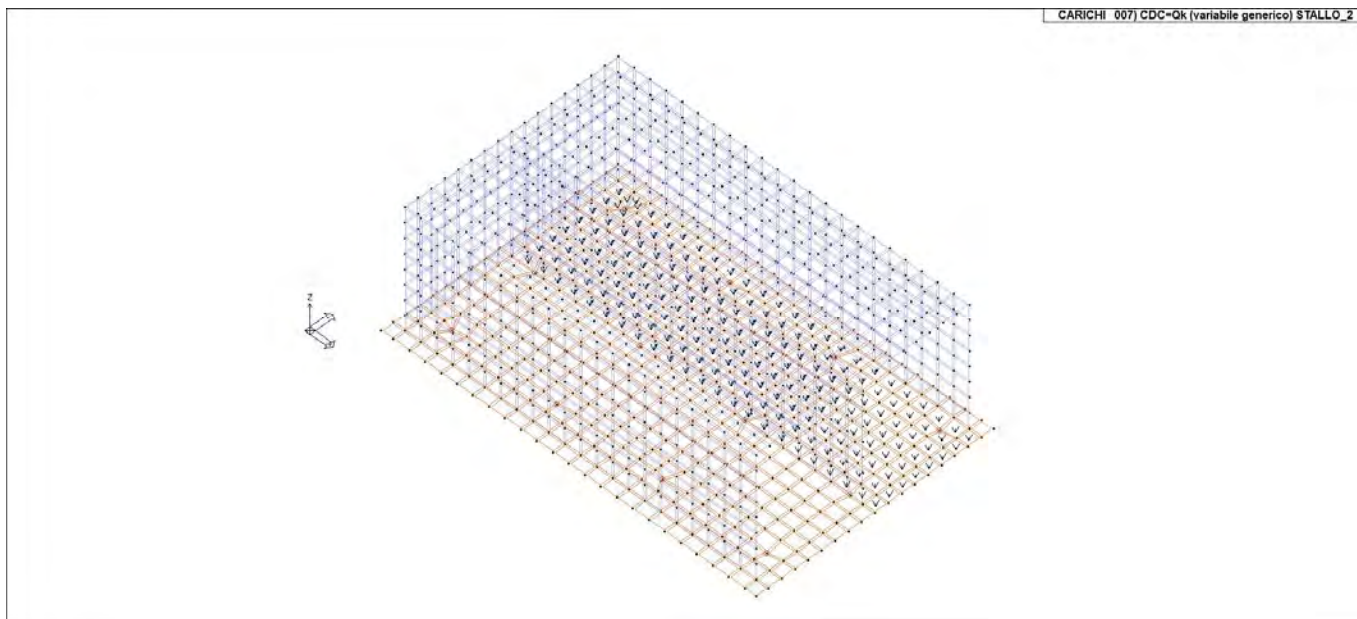


Figura 17 - CDC_007_CDCQk variabile generico STALLO2

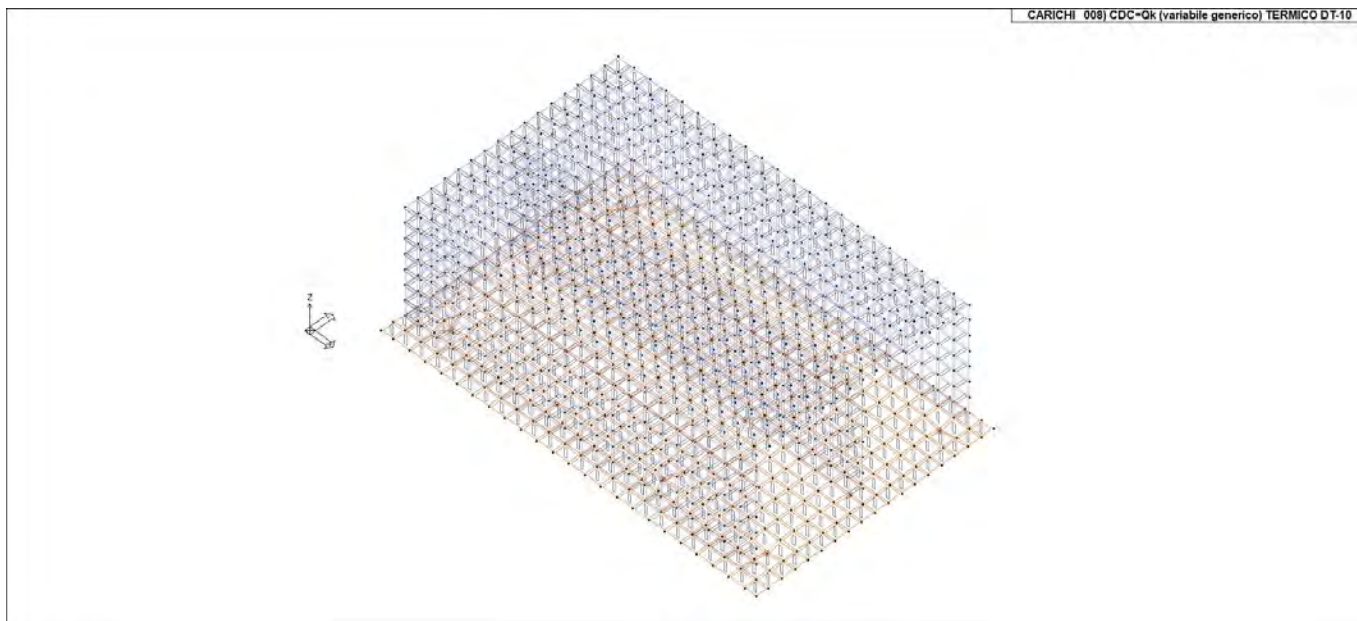


Figura 18 - CDC_008_CDCQk variabile generico TERMICO DT-10

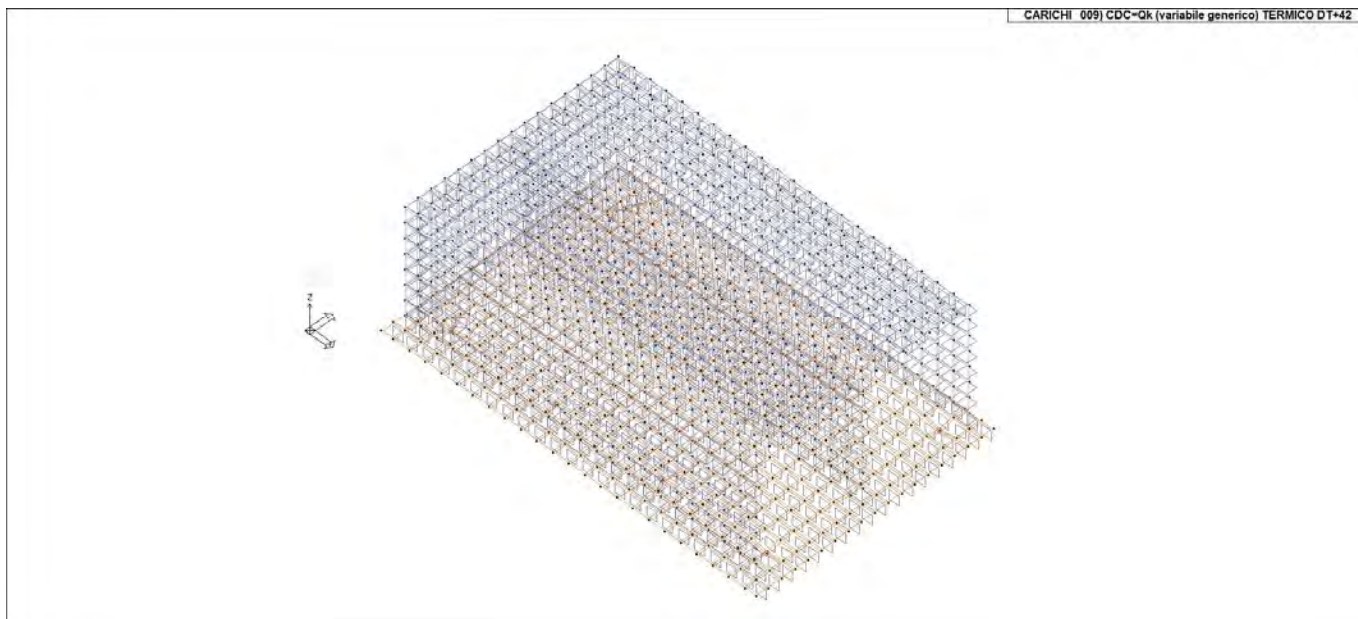


Figura 19 - CDC_009_CDCQk variabile generico TERMICO DT+42

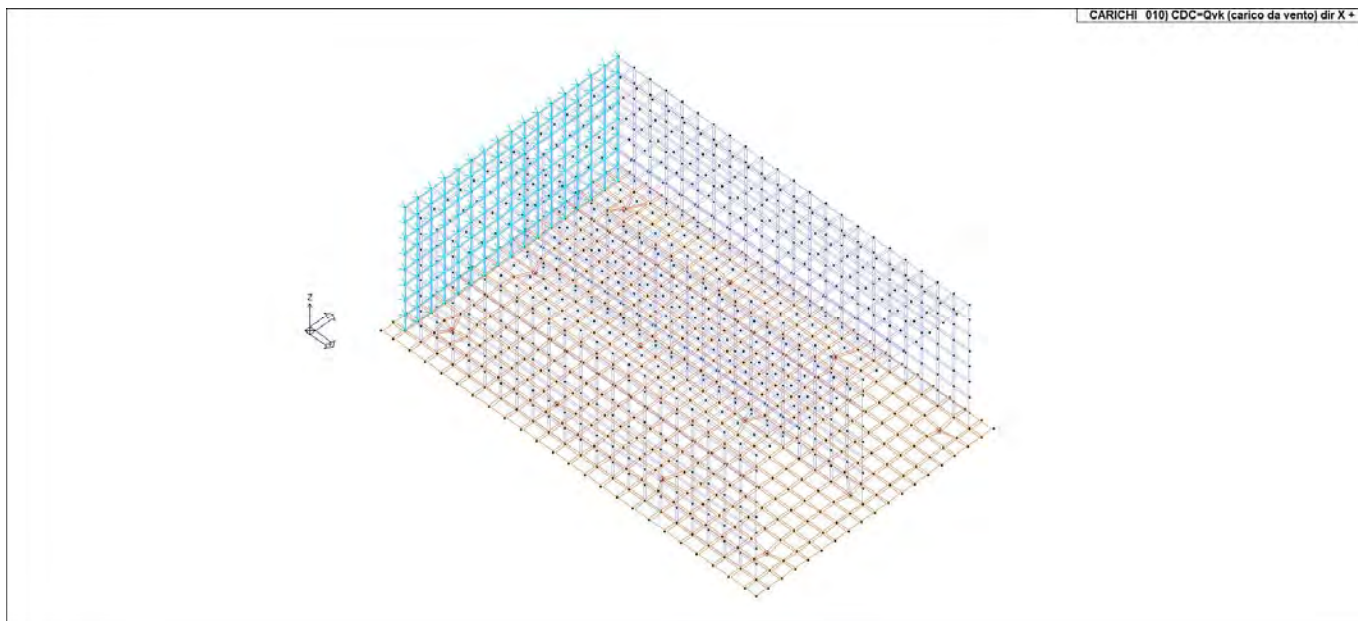


Figura 20 - CDC_010_CDCQvk carico da vento dir X +

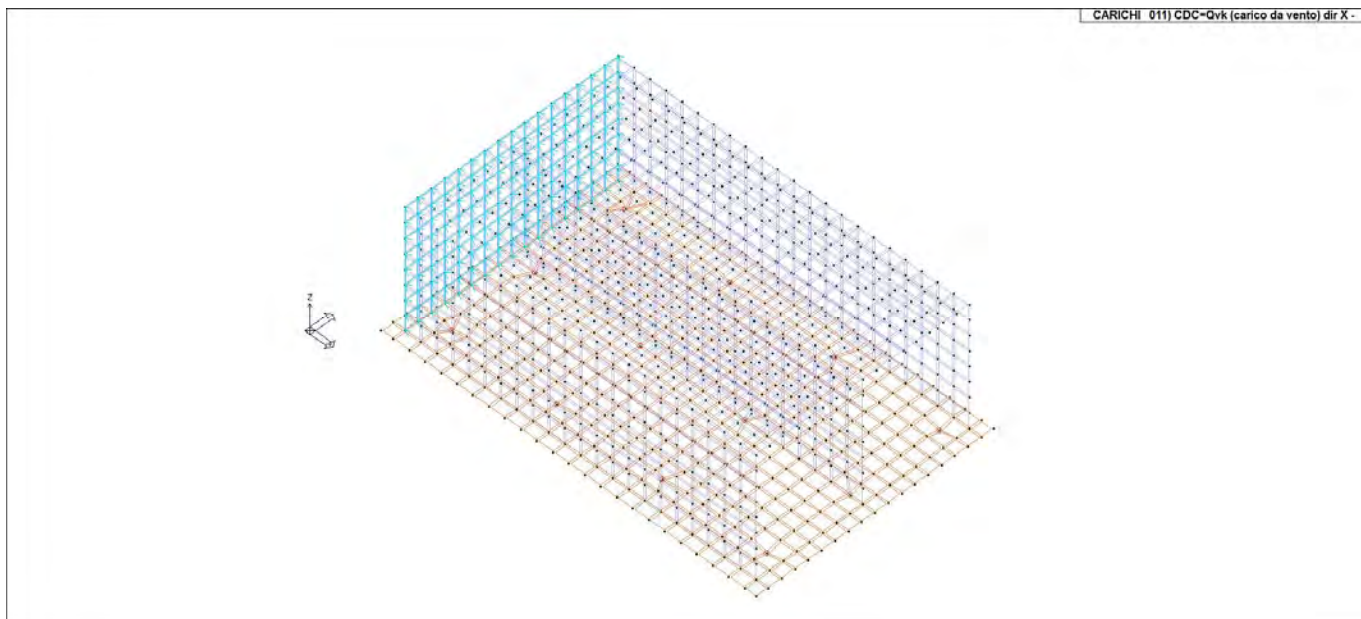


Figura 21 - CDC_011_CDCQvk carico da vento dir X -

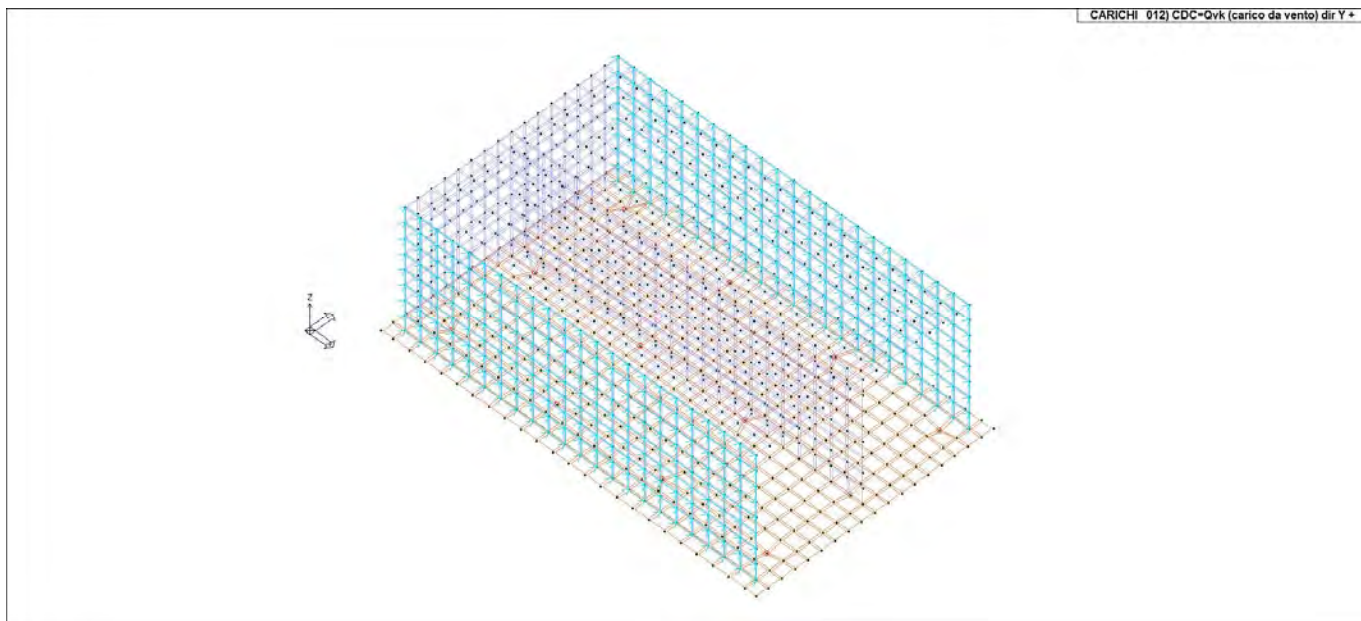


Figura 22 - CDC_012_CDCQvk carico da vento dir Y +

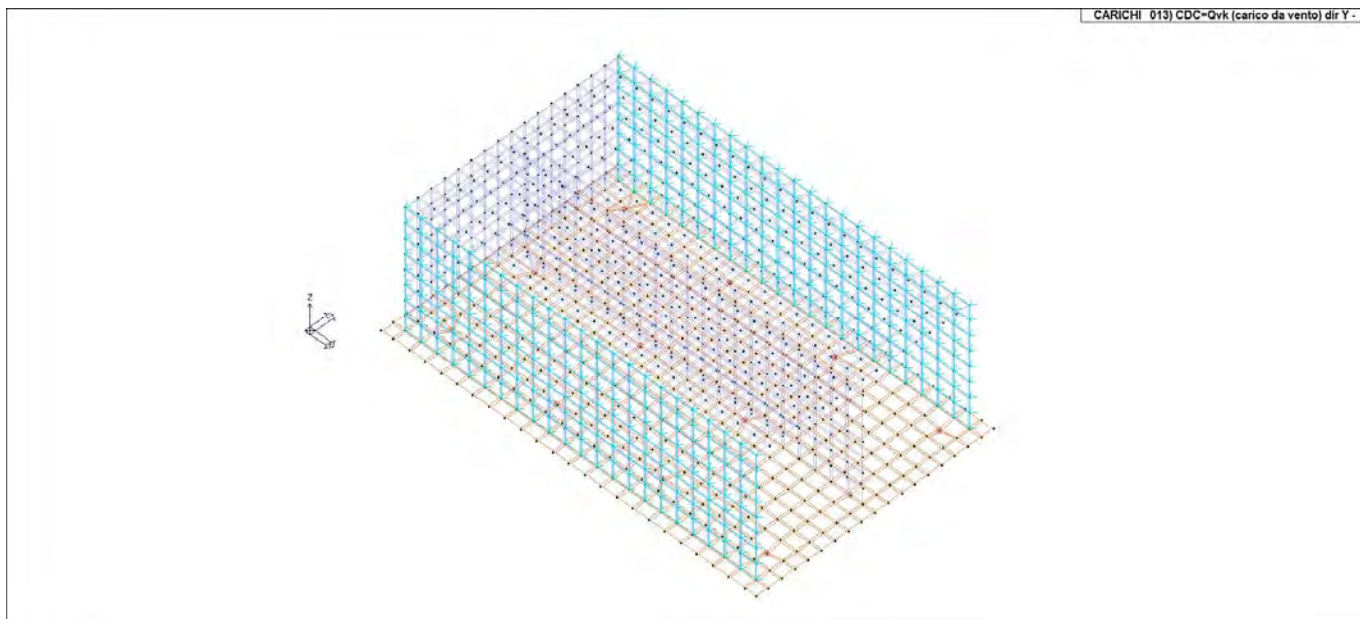


Figura 23 - CDC_013_CDCQvk carico da vento dir Y -

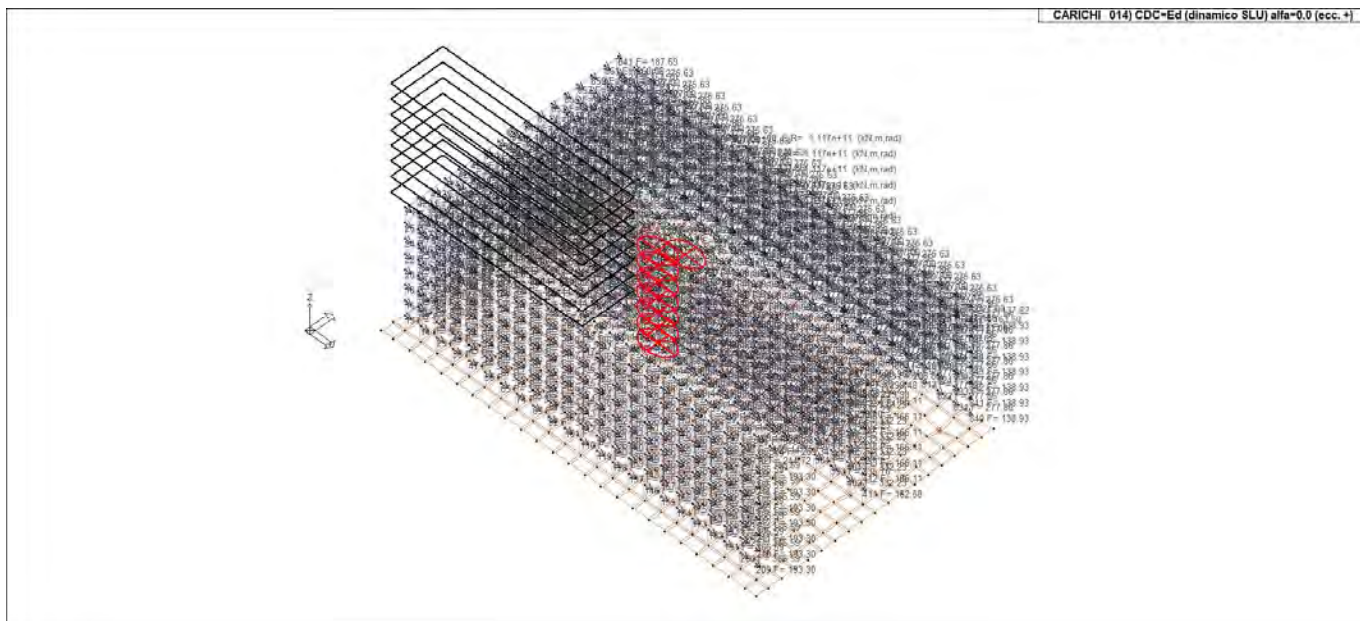


Figura 24 - CDC_014_CDCEd dinamico SLU alfa00 ecc +

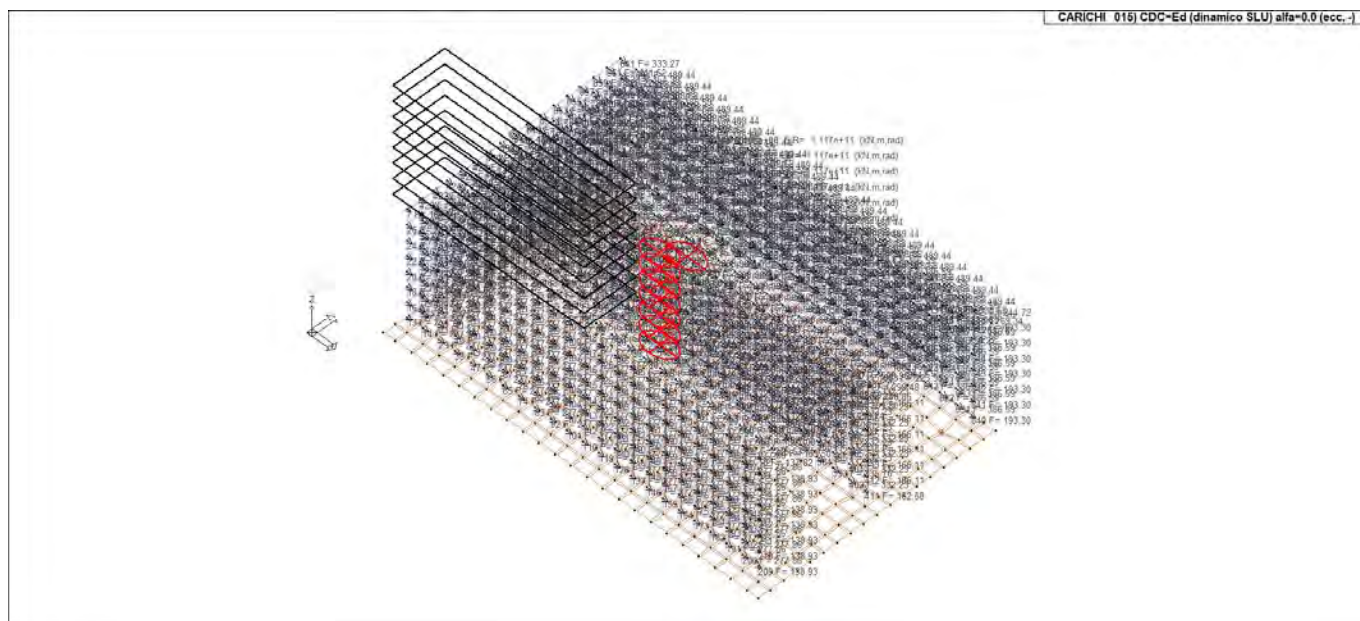


Figura 25 - CDC_015_CDCEd dinamico SLU alfa00 ecc -

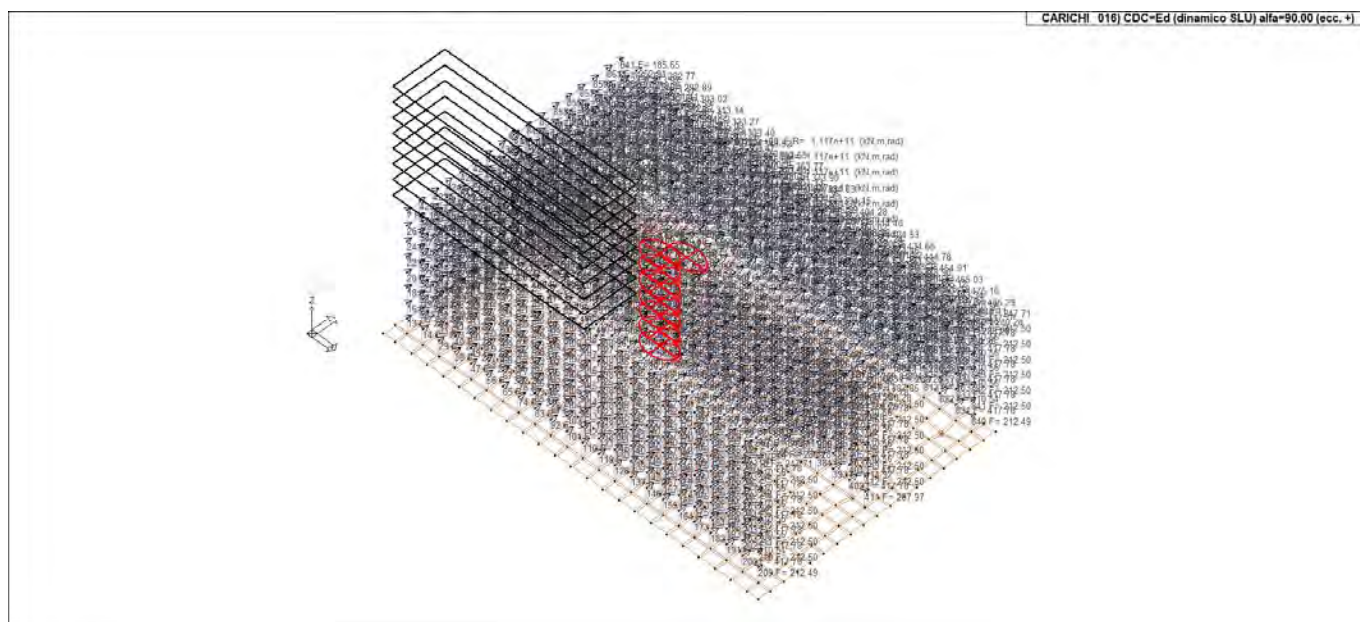


Figura 26 - CDC_016_CDCEd dinamico SLU alfa9000 ecc +

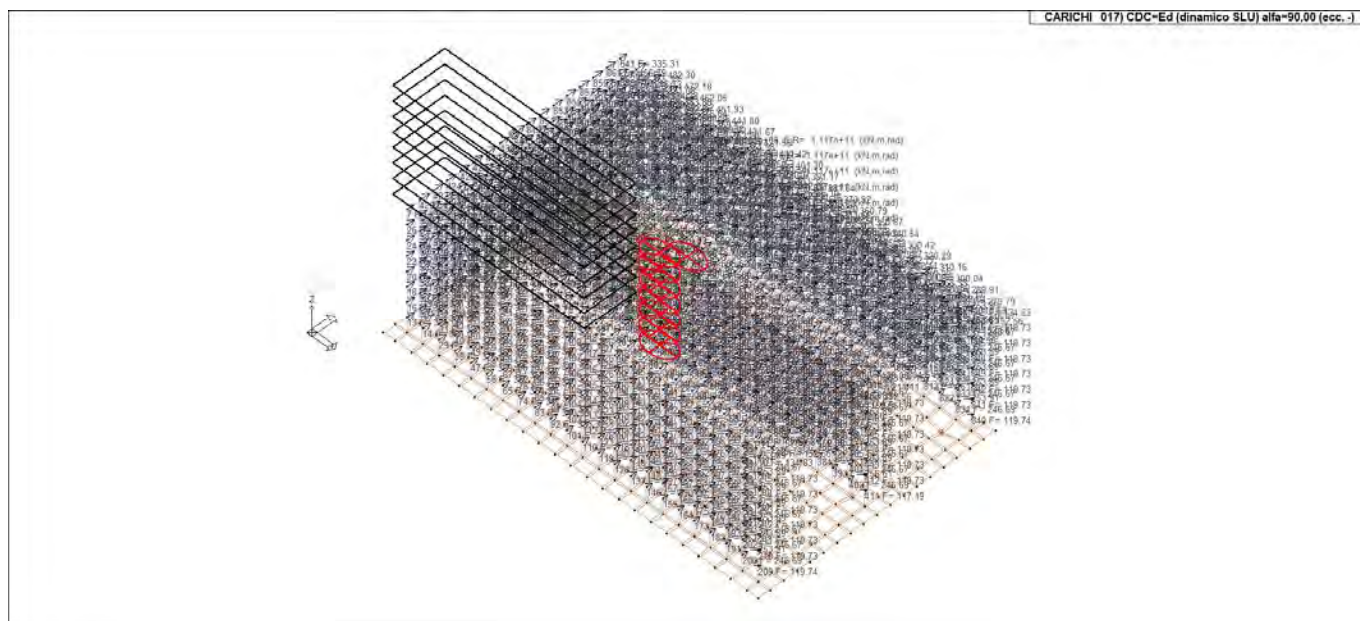


Figura 27 - CDC_017_CDCEd dinamico SLU alfa9000 ecc -

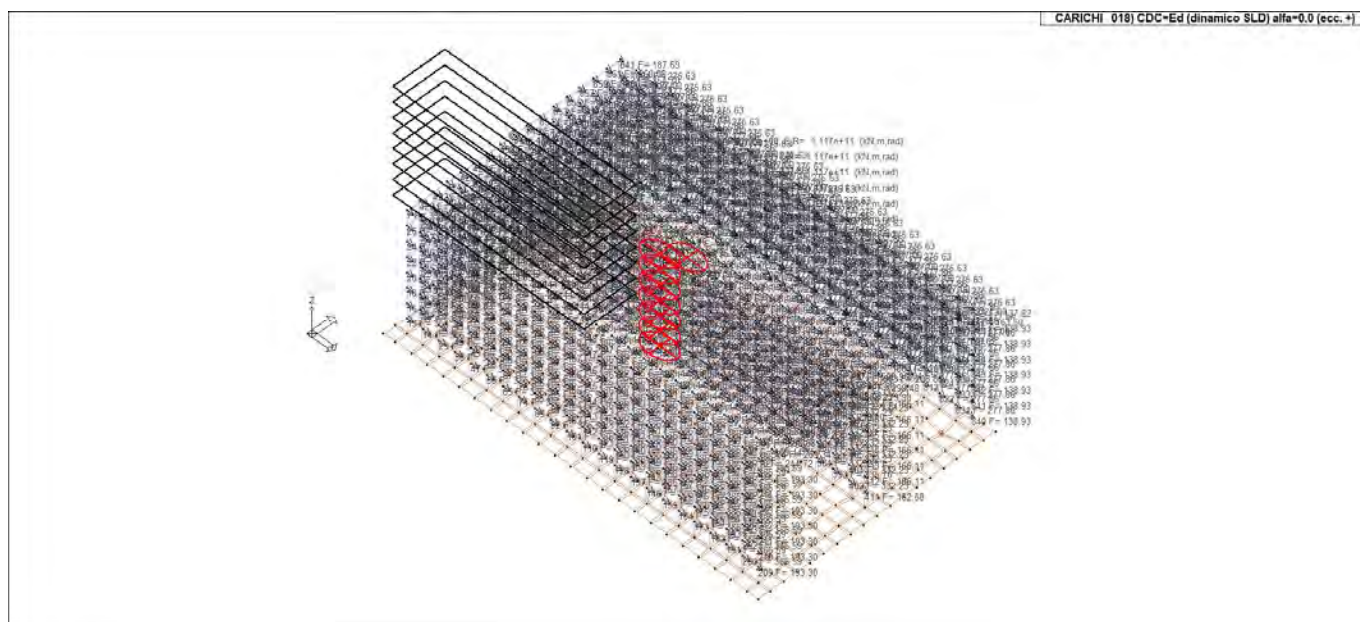


Figura 28 - CDC_018_CDCEd dinamico SLD alfa00 ecc +

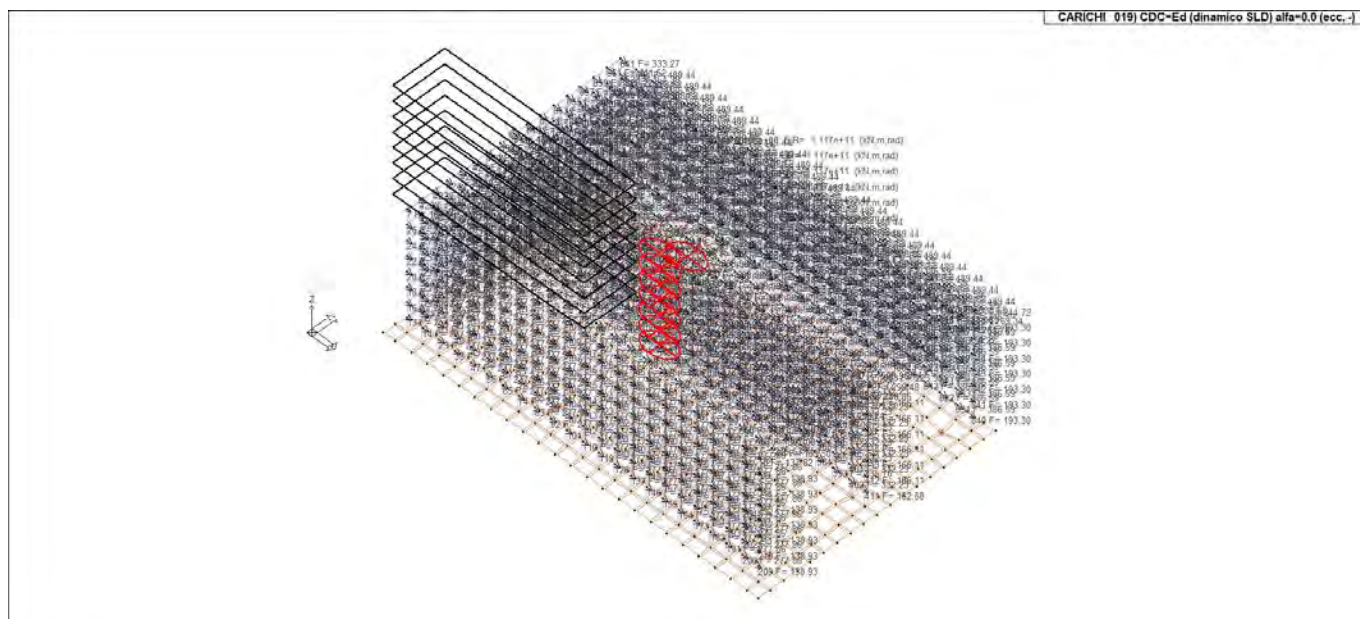


Figura 29 - CDC_019_CDCEd dinamico SLD alfa00 ecc -

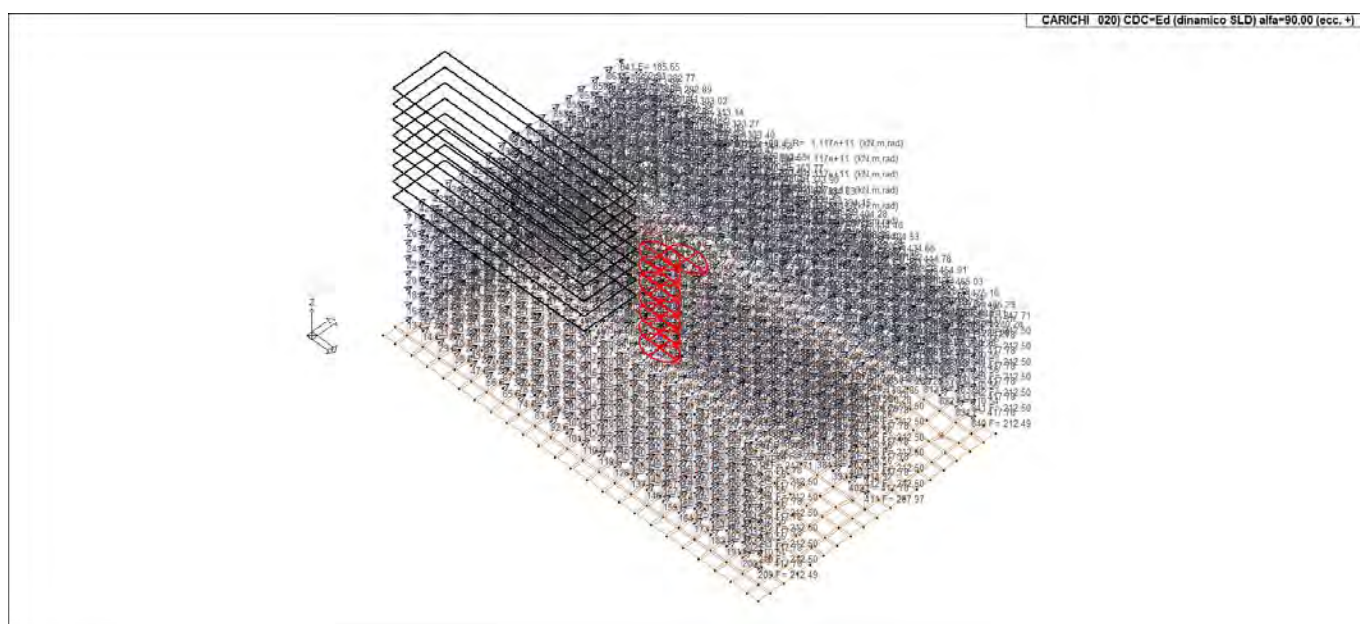


Figura 30 - CDC_020_CDCEd dinamico SLD alfa9000 ecc +

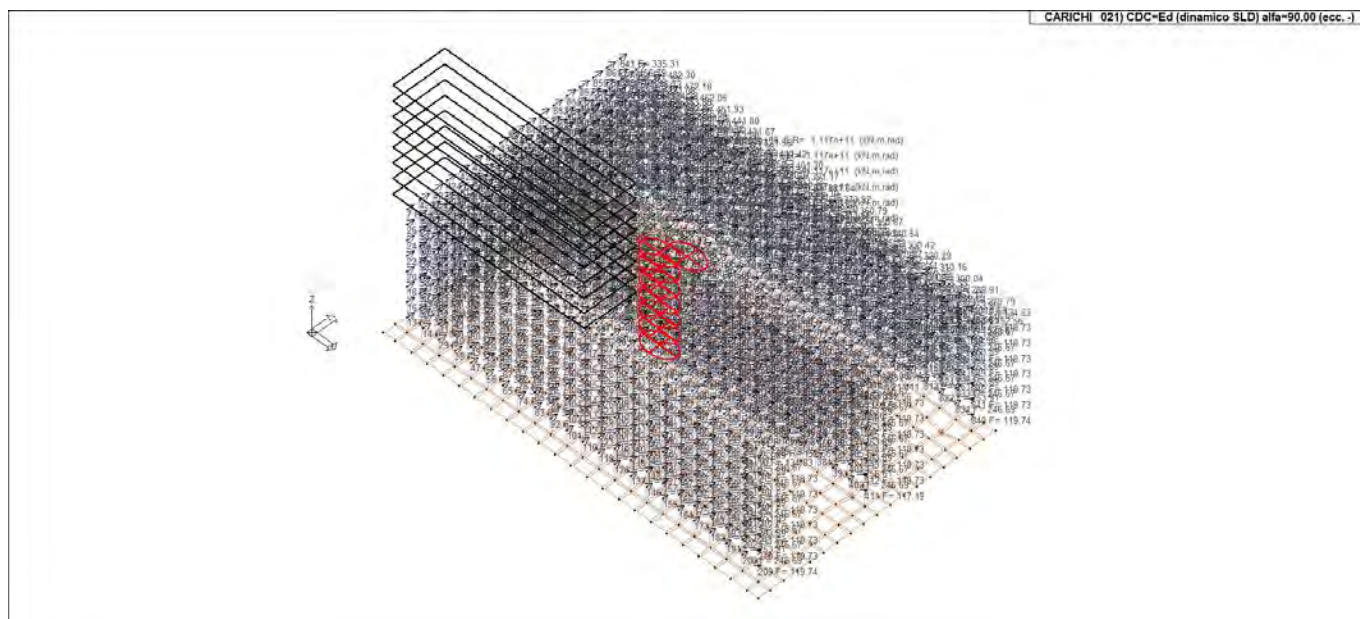


Figura 31 - CDC_021_CDCEd dinamico SLD alfa9000 ecc -

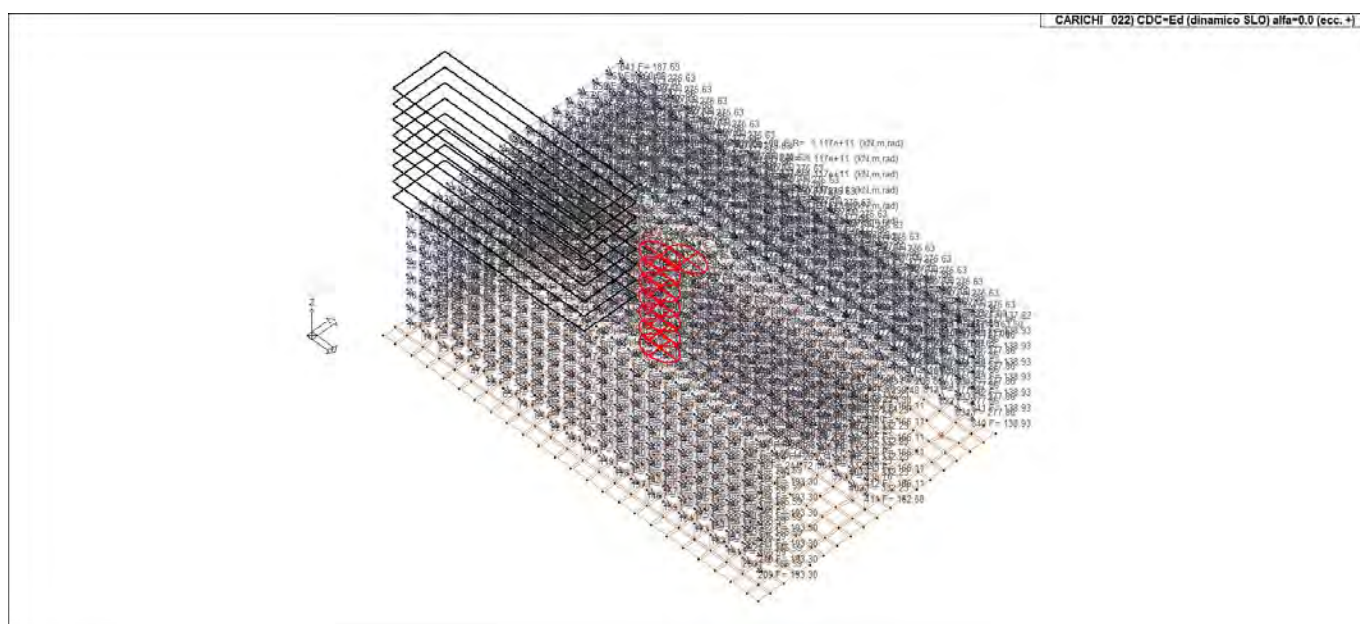


Figura 32 - CDC_022_CDCEd dinamico SLO alfa00 ecc +

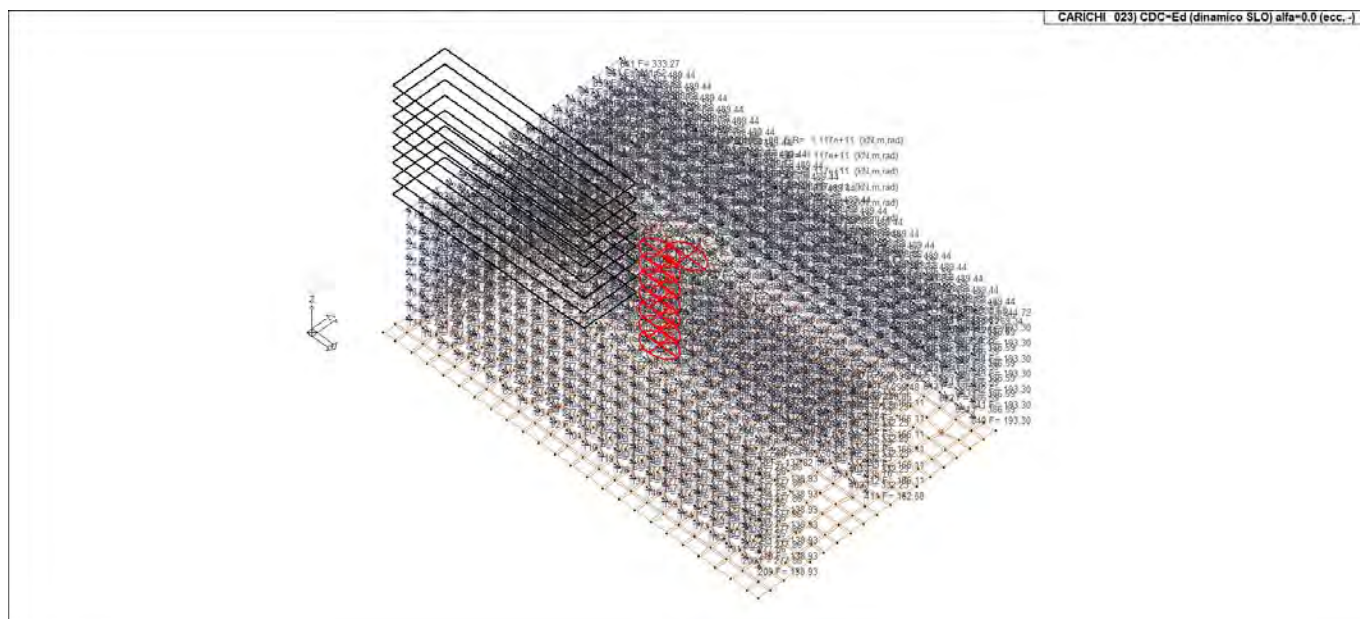


Figura 33 - CDC_023_CDCEd dinamico SLO alfa00 ecc -

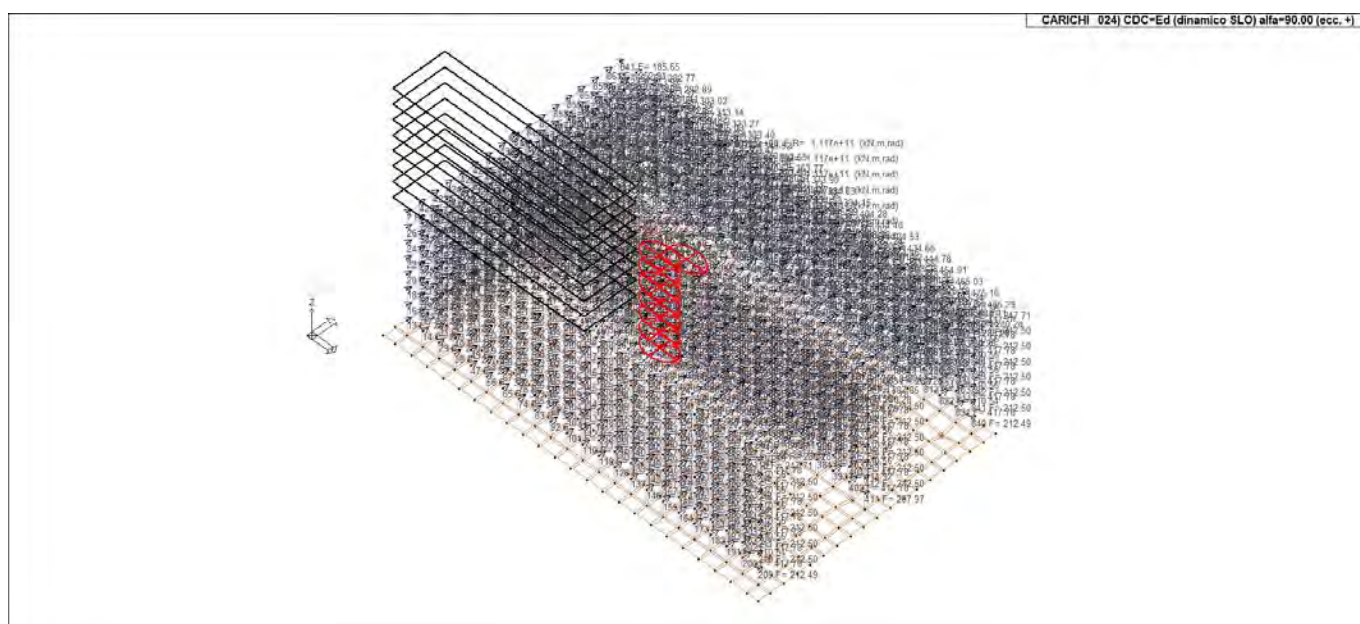


Figura 34 - CDC_024_CDCEd dinamico SLO alfa9000 ecc +

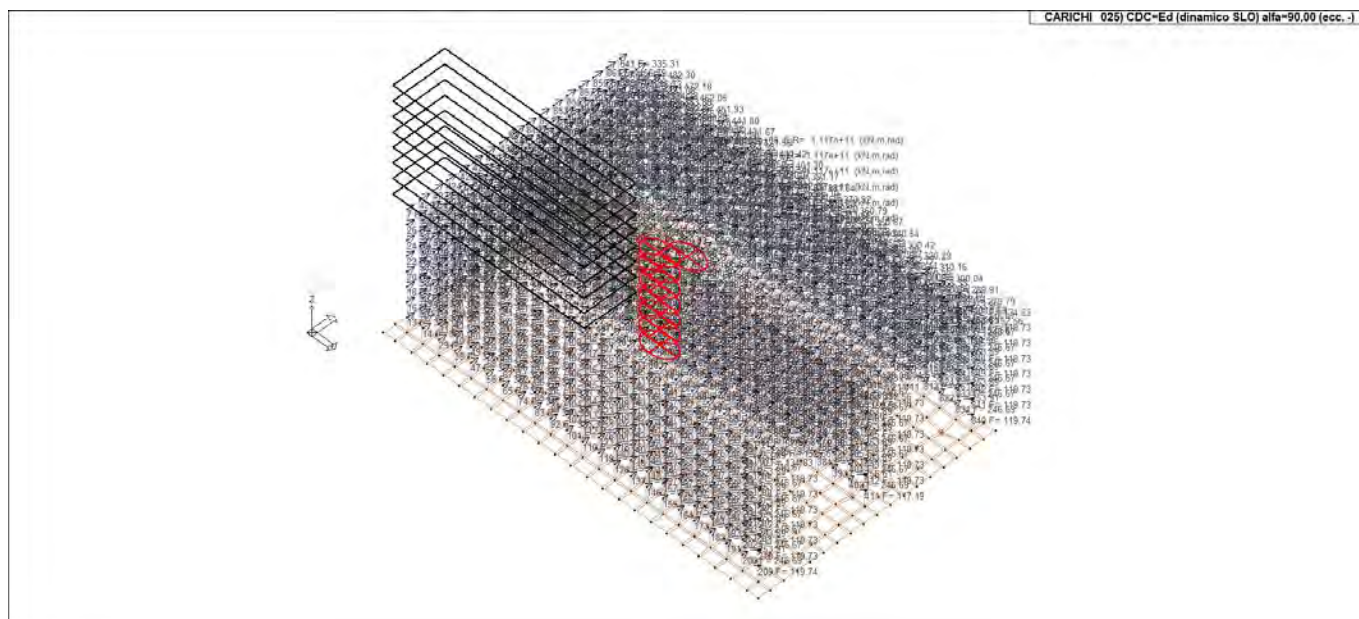


Figura 35 - CDC_025_CDCEd dinamico SLO alfa9000 ecc -

10 DEFINIZIONE DELLE COMBINAZIONI

10.1 LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente.

Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$$\gamma G_1 \cdot G_1 + \gamma G_2 \cdot G_2 + \gamma P \cdot P + \gamma Q_1 \cdot Q_{k1} + \gamma Q_2 \cdot \psi_{02} \cdot Q_{k2} + \gamma Q_3 \cdot \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione caratteristica (rara) SLE

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione frequente SLE

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione quasi permanente SLE

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G_1 + G_2 + A_d + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_2
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli $\leq 30kN$)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli $> 30kN$)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota ≤ 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),

- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.1

		Coefficiente γ_f	EQU	A1	A2
Carichi permanenti	Favorevoli	γ_{G1}	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	γ_{G2}	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γ_{Qi}	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 10	
11	SLU	Comb. SLU A1 11	
12	SLU	Comb. SLU A1 12	
13	SLU	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLU	Comb. SLU A1 15	
16	SLU	Comb. SLU A1 16	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	
19	SLU	Comb. SLU A1 19	
20	SLU	Comb. SLU A1 20	
21	SLU	Comb. SLU A1 21	
22	SLU	Comb. SLU A1 22	
23	SLU	Comb. SLU A1 23	
24	SLU	Comb. SLU A1 24	
25	SLU	Comb. SLU A1 25	
26	SLU	Comb. SLU A1 26	
27	SLU	Comb. SLU A1 27	
28	SLU	Comb. SLU A1 28	
29	SLU	Comb. SLU A1 29	
30	SLU	Comb. SLU A1 30	
31	SLU	Comb. SLU A1 31	
32	SLU	Comb. SLU A1 32	
33	SLU	Comb. SLU A1 33	
34	SLU	Comb. SLU A1 34	
35	SLU	Comb. SLU A1 35	
36	SLU	Comb. SLU A1 36	
37	SLU	Comb. SLU A1 37	
38	SLU	Comb. SLU A1 38	
39	SLU	Comb. SLU A1 39	
40	SLU	Comb. SLU A1 40	
41	SLU	Comb. SLU A1 41	
42	SLU	Comb. SLU A1 42	
43	SLU	Comb. SLU A1 43	
44	SLU	Comb. SLU A1 44	
45	SLU	Comb. SLU A1 45	
46	SLU	Comb. SLU A1 46	
47	SLU	Comb. SLU A1 47	
48	SLU	Comb. SLU A1 48	

Cmb	Tipo	Sigla Id	effetto P-delta
49	SLU	Comb. SLU A1 49	
50	SLU	Comb. SLU A1 50	
51	SLU	Comb. SLU A1 51	
52	SLU	Comb. SLU A1 52	
53	SLU	Comb. SLU A1 53	
54	SLU	Comb. SLU A1 54	
55	SLU	Comb. SLU A1 55	
56	SLU	Comb. SLU A1 56	
57	SLU	Comb. SLU A1 57	
58	SLU	Comb. SLU A1 58	
59	SLU	Comb. SLU A1 59	
60	SLU	Comb. SLU A1 60	
61	SLU	Comb. SLU A1 61	
62	SLU	Comb. SLU A1 62	
63	SLU	Comb. SLU A1 63	
64	SLU	Comb. SLU A1 64	
65	SLU	Comb. SLU A1 65	
66	SLU	Comb. SLU A1 66	
67	SLU	Comb. SLU A1 67	
68	SLU	Comb. SLU A1 68	
69	SLU	Comb. SLU A1 69	
70	SLU	Comb. SLU A1 70	
71	SLU	Comb. SLU A1 71	
72	SLU	Comb. SLU A1 72	
73	SLU	Comb. SLU A1 73	
74	SLU	Comb. SLU A1 74	
75	SLU	Comb. SLU A1 75	
76	SLU	Comb. SLU A1 76	
77	SLU	Comb. SLU A1 77	
78	SLU	Comb. SLU A1 78	
79	SLU	Comb. SLU A1 79	
80	SLU	Comb. SLU A1 80	
81	SLU	Comb. SLU A1 81	
82	SLU	Comb. SLU A1 82	
83	SLU	Comb. SLU A1 83	
84	SLU	Comb. SLU A1 84	
85	SLU	Comb. SLU A1 85	
86	SLU	Comb. SLU A1 86	
87	SLU	Comb. SLU A1 87	
88	SLU	Comb. SLU A1 88	
89	SLU	Comb. SLU A1 89	
90	SLU	Comb. SLU A1 90	
91	SLU	Comb. SLU A1 91	
92	SLU	Comb. SLU A1 92	
93	SLU	Comb. SLU A1 93	
94	SLU	Comb. SLU A1 94	
95	SLU	Comb. SLU A1 95	
96	SLU	Comb. SLU A1 96	
97	SLU	Comb. SLU A1 97	
98	SLU	Comb. SLU A1 98	
99	SLU	Comb. SLU A1 99	
100	SLU	Comb. SLU A1 100	
101	SLU	Comb. SLU A1 101	
102	SLU	Comb. SLU A1 102	
103	SLU	Comb. SLU A1 103	
104	SLU	Comb. SLU A1 104	
105	SLU	Comb. SLU A1 105	
106	SLU	Comb. SLU A1 106	
107	SLU	Comb. SLU A1 107	
108	SLU	Comb. SLU A1 108	
109	SLU	Comb. SLU A1 109	
110	SLU	Comb. SLU A1 110	
111	SLU	Comb. SLU A1 111	
112	SLU	Comb. SLU A1 112	
113	SLU	Comb. SLU A1 113	
114	SLU	Comb. SLU A1 114	
115	SLU	Comb. SLU A1 115	
116	SLU	Comb. SLU A1 116	
117	SLU	Comb. SLU A1 117	
118	SLU	Comb. SLU A1 118	

Cmb	Tipo	Sigla Id	effetto P-delta
119	SLU	Comb. SLU A1 119	
120	SLU	Comb. SLU A1 120	
121	SLU	Comb. SLU A1 121	
122	SLU	Comb. SLU A1 122	
123	SLU	Comb. SLU A1 123	
124	SLU	Comb. SLU A1 124	
125	SLU	Comb. SLU A1 125	
126	SLU	Comb. SLU A1 126	
127	SLU	Comb. SLU A1 127	
128	SLU	Comb. SLU A1 128	
129	SLU	Comb. SLU A1 129	
130	SLU	Comb. SLU A1 130	
131	SLU	Comb. SLU A1 131	
132	SLU	Comb. SLU A1 132	
133	SLU	Comb. SLU A1 133	
134	SLU	Comb. SLU A1 134	
135	SLU	Comb. SLU A1 135	
136	SLU	Comb. SLU A1 136	
137	SLE(r)	Comb. SLE(rara) 137	
138	SLE(r)	Comb. SLE(rara) 138	
139	SLE(r)	Comb. SLE(rara) 139	
140	SLE(r)	Comb. SLE(rara) 140	
141	SLE(r)	Comb. SLE(rara) 141	
142	SLE(r)	Comb. SLE(rara) 142	
143	SLE(r)	Comb. SLE(rara) 143	
144	SLE(r)	Comb. SLE(rara) 144	
145	SLE(r)	Comb. SLE(rara) 145	
146	SLE(r)	Comb. SLE(rara) 146	
147	SLE(r)	Comb. SLE(rara) 147	
148	SLE(r)	Comb. SLE(rara) 148	
149	SLE(r)	Comb. SLE(rara) 149	
150	SLE(r)	Comb. SLE(rara) 150	
151	SLE(r)	Comb. SLE(rara) 151	
152	SLE(r)	Comb. SLE(rara) 152	
153	SLE(r)	Comb. SLE(rara) 153	
154	SLE(r)	Comb. SLE(rara) 154	
155	SLE(r)	Comb. SLE(rara) 155	
156	SLE(r)	Comb. SLE(rara) 156	
157	SLE(r)	Comb. SLE(rara) 157	
158	SLE(r)	Comb. SLE(rara) 158	
159	SLE(r)	Comb. SLE(rara) 159	
160	SLE(r)	Comb. SLE(rara) 160	
161	SLE(r)	Comb. SLE(rara) 161	
162	SLE(r)	Comb. SLE(rara) 162	
163	SLE(r)	Comb. SLE(rara) 163	
164	SLE(r)	Comb. SLE(rara) 164	
165	SLE(r)	Comb. SLE(rara) 165	
166	SLE(r)	Comb. SLE(rara) 166	
167	SLE(r)	Comb. SLE(rara) 167	
168	SLE(r)	Comb. SLE(rara) 168	
169	SLE(r)	Comb. SLE(rara) 169	
170	SLE(r)	Comb. SLE(rara) 170	
171	SLE(r)	Comb. SLE(rara) 171	
172	SLE(r)	Comb. SLE(rara) 172	
173	SLE(r)	Comb. SLE(rara) 173	
174	SLE(r)	Comb. SLE(rara) 174	
175	SLE(r)	Comb. SLE(rara) 175	
176	SLE(r)	Comb. SLE(rara) 176	
177	SLE(r)	Comb. SLE(rara) 177	
178	SLE(r)	Comb. SLE(rara) 178	
179	SLE(r)	Comb. SLE(rara) 179	
180	SLE(r)	Comb. SLE(rara) 180	
181	SLE(r)	Comb. SLE(rara) 181	
182	SLE(r)	Comb. SLE(rara) 182	
183	SLE(r)	Comb. SLE(rara) 183	
184	SLE(r)	Comb. SLE(rara) 184	
185	SLE(r)	Comb. SLE(rara) 185	
186	SLE(r)	Comb. SLE(rara) 186	
187	SLE(r)	Comb. SLE(rara) 187	
188	SLE(r)	Comb. SLE(rara) 188	

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 79 di 378

Cmb	Tipo	Sigla Id	effetto P-delta
189	SLE(r)	Comb. SLE(rara) 189	
190	SLE(r)	Comb. SLE(rara) 190	
191	SLE(r)	Comb. SLE(rara) 191	
192	SLE(r)	Comb. SLE(rara) 192	
193	SLE(r)	Comb. SLE(rara) 193	
194	SLE(r)	Comb. SLE(rara) 194	
195	SLE(r)	Comb. SLE(rara) 195	
196	SLE(r)	Comb. SLE(rara) 196	
197	SLE(r)	Comb. SLE(rara) 197	
198	SLE(r)	Comb. SLE(rara) 198	
199	SLE(r)	Comb. SLE(rara) 199	
200	SLE(r)	Comb. SLE(rara) 200	
201	SLE(r)	Comb. SLE(rara) 201	
202	SLE(r)	Comb. SLE(rara) 202	
203	SLE(r)	Comb. SLE(rara) 203	
204	SLE(r)	Comb. SLE(rara) 204	
205	SLE(f)	Comb. SLE(freq.) 205	
206	SLE(f)	Comb. SLE(freq.) 206	
207	SLE(f)	Comb. SLE(freq.) 207	
208	SLE(f)	Comb. SLE(freq.) 208	
209	SLE(f)	Comb. SLE(freq.) 209	
210	SLE(f)	Comb. SLE(freq.) 210	
211	SLE(f)	Comb. SLE(freq.) 211	
212	SLE(f)	Comb. SLE(freq.) 212	
213	SLE(f)	Comb. SLE(freq.) 213	
214	SLE(f)	Comb. SLE(freq.) 214	
215	SLE(p)	Comb. SLE(perm.) 215	
216	SLU	Comb. SLU A1 (SLV sism.) 216	
217	SLU	Comb. SLU A1 (SLV sism.) 217	
218	SLU	Comb. SLU A1 (SLV sism.) 218	
219	SLU	Comb. SLU A1 (SLV sism.) 219	
220	SLU	Comb. SLU A1 (SLV sism.) 220	
221	SLU	Comb. SLU A1 (SLV sism.) 221	
222	SLU	Comb. SLU A1 (SLV sism.) 222	
223	SLU	Comb. SLU A1 (SLV sism.) 223	
224	SLU	Comb. SLU A1 (SLV sism.) 224	
225	SLU	Comb. SLU A1 (SLV sism.) 225	
226	SLU	Comb. SLU A1 (SLV sism.) 226	
227	SLU	Comb. SLU A1 (SLV sism.) 227	
228	SLU	Comb. SLU A1 (SLV sism.) 228	
229	SLU	Comb. SLU A1 (SLV sism.) 229	
230	SLU	Comb. SLU A1 (SLV sism.) 230	
231	SLU	Comb. SLU A1 (SLV sism.) 231	
232	SLU	Comb. SLU A1 (SLV sism.) 232	
233	SLU	Comb. SLU A1 (SLV sism.) 233	
234	SLU	Comb. SLU A1 (SLV sism.) 234	
235	SLU	Comb. SLU A1 (SLV sism.) 235	
236	SLU	Comb. SLU A1 (SLV sism.) 236	
237	SLU	Comb. SLU A1 (SLV sism.) 237	
238	SLU	Comb. SLU A1 (SLV sism.) 238	
239	SLU	Comb. SLU A1 (SLV sism.) 239	
240	SLU	Comb. SLU A1 (SLV sism.) 240	
241	SLU	Comb. SLU A1 (SLV sism.) 241	
242	SLU	Comb. SLU A1 (SLV sism.) 242	
243	SLU	Comb. SLU A1 (SLV sism.) 243	
244	SLU	Comb. SLU A1 (SLV sism.) 244	
245	SLU	Comb. SLU A1 (SLV sism.) 245	
246	SLU	Comb. SLU A1 (SLV sism.) 246	
247	SLU	Comb. SLU A1 (SLV sism.) 247	
248	SLE(sis)	Comb. SLE (SLD Danno sism.) 248	
249	SLE(sis)	Comb. SLE (SLD Danno sism.) 249	
250	SLE(sis)	Comb. SLE (SLD Danno sism.) 250	
251	SLE(sis)	Comb. SLE (SLD Danno sism.) 251	
252	SLE(sis)	Comb. SLE (SLD Danno sism.) 252	
253	SLE(sis)	Comb. SLE (SLD Danno sism.) 253	
254	SLE(sis)	Comb. SLE (SLD Danno sism.) 254	
255	SLE(sis)	Comb. SLE (SLD Danno sism.) 255	
256	SLE(sis)	Comb. SLE (SLD Danno sism.) 256	
257	SLE(sis)	Comb. SLE (SLD Danno sism.) 257	
258	SLE(sis)	Comb. SLE (SLD Danno sism.) 258	

Cmb	Tipo	Sigla Id	effetto P-delta
259	SLE(sis)	Comb. SLE (SLD Danno sism.) 259	
260	SLE(sis)	Comb. SLE (SLD Danno sism.) 260	
261	SLE(sis)	Comb. SLE (SLD Danno sism.) 261	
262	SLE(sis)	Comb. SLE (SLD Danno sism.) 262	
263	SLE(sis)	Comb. SLE (SLD Danno sism.) 263	
264	SLE(sis)	Comb. SLE (SLD Danno sism.) 264	
265	SLE(sis)	Comb. SLE (SLD Danno sism.) 265	
266	SLE(sis)	Comb. SLE (SLD Danno sism.) 266	
267	SLE(sis)	Comb. SLE (SLD Danno sism.) 267	
268	SLE(sis)	Comb. SLE (SLD Danno sism.) 268	
269	SLE(sis)	Comb. SLE (SLD Danno sism.) 269	
270	SLE(sis)	Comb. SLE (SLD Danno sism.) 270	
271	SLE(sis)	Comb. SLE (SLD Danno sism.) 271	
272	SLE(sis)	Comb. SLE (SLD Danno sism.) 272	
273	SLE(sis)	Comb. SLE (SLD Danno sism.) 273	
274	SLE(sis)	Comb. SLE (SLD Danno sism.) 274	
275	SLE(sis)	Comb. SLE (SLD Danno sism.) 275	
276	SLE(sis)	Comb. SLE (SLD Danno sism.) 276	
277	SLE(sis)	Comb. SLE (SLD Danno sism.) 277	
278	SLE(sis)	Comb. SLE (SLD Danno sism.) 278	
279	SLE(sis)	Comb. SLE (SLD Danno sism.) 279	
280	SLE(sis)	Comb. SLE (SLO Operativo sism.) 280	
281	SLE(sis)	Comb. SLE (SLO Operativo sism.) 281	
282	SLE(sis)	Comb. SLE (SLO Operativo sism.) 282	
283	SLE(sis)	Comb. SLE (SLO Operativo sism.) 283	
284	SLE(sis)	Comb. SLE (SLO Operativo sism.) 284	
285	SLE(sis)	Comb. SLE (SLO Operativo sism.) 285	
286	SLE(sis)	Comb. SLE (SLO Operativo sism.) 286	
287	SLE(sis)	Comb. SLE (SLO Operativo sism.) 287	
288	SLE(sis)	Comb. SLE (SLO Operativo sism.) 288	
289	SLE(sis)	Comb. SLE (SLO Operativo sism.) 289	
290	SLE(sis)	Comb. SLE (SLO Operativo sism.) 290	
291	SLE(sis)	Comb. SLE (SLO Operativo sism.) 291	
292	SLE(sis)	Comb. SLE (SLO Operativo sism.) 292	
293	SLE(sis)	Comb. SLE (SLO Operativo sism.) 293	
294	SLE(sis)	Comb. SLE (SLO Operativo sism.) 294	
295	SLE(sis)	Comb. SLE (SLO Operativo sism.) 295	
296	SLE(sis)	Comb. SLE (SLO Operativo sism.) 296	
297	SLE(sis)	Comb. SLE (SLO Operativo sism.) 297	
298	SLE(sis)	Comb. SLE (SLO Operativo sism.) 298	
299	SLE(sis)	Comb. SLE (SLO Operativo sism.) 299	
300	SLE(sis)	Comb. SLE (SLO Operativo sism.) 300	
301	SLE(sis)	Comb. SLE (SLO Operativo sism.) 301	
302	SLE(sis)	Comb. SLE (SLO Operativo sism.) 302	
303	SLE(sis)	Comb. SLE (SLO Operativo sism.) 303	
304	SLE(sis)	Comb. SLE (SLO Operativo sism.)	

Cmb	Tipo	Sigla Id	effetto P-delta
		304	
305	SLE(sis)	Comb. SLE (SLO Operativo sism.)	
		305	
306	SLE(sis)	Comb. SLE (SLO Operativo sism.)	
		306	
307	SLE(sis)	Comb. SLE (SLO Operativo sism.)	
		307	
308	SLE(sis)	Comb. SLE (SLO Operativo sism.)	
		308	
309	SLE(sis)	Comb. SLE (SLO Operativo sism.)	
		309	
310	SLE(sis)	Comb. SLE (SLO Operativo sism.)	
		310	
311	SLE(sis)	Comb. SLE (SLO Operativo sism.) 311	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
26	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
32	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
33	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
34	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
35	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
36	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
37	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
38	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
39	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
40	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
41	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
42	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	1.50	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
43	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
44	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	1.50	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
45	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	1.50	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
46	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	1.50	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
47	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	1.50	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
48	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	1.50	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
49	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
50	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
51	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
52	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.90	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
53	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
54	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
55	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
56	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
57	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
58	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
59	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
60	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 83 di 378

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
61	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
62	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
63	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
64	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
65	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
66	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
67	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
68	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
69	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
70	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
71	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
72	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
73	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
74	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
75	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
76	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.90	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
77	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.0	1.50	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
78	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.0	1.50	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
79	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.0	1.50	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
80	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.0	1.50	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
81	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
82	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
83	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
84	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
85	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
86	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
87	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
88	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
89	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
90	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
91	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
92	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
93	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
94	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
95	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
96	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
97	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
98	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
99	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
100	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
101	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
102	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
103	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
104	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.90	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
105	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	1.50	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
106	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	1.50	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
107	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	1.50	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
108	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	1.50	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
109	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
110	1.30	1.50	1.50	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
111	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
112	1.00	0.80	0.80	1.50	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
113	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
114	1.30	1.50	1.50	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
115	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
116	1.00	0.80	0.80	0.0	1.50	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
117	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
118	1.30	1.50	1.50	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
119	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
120	1.00	0.80	0.80	0.0	0.75	1.50	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
121	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
122	1.30	1.50	1.50	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
123	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
124	1.00	0.80	0.80	0.0	0.75	1.05	1.50	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
125	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
126	1.30	1.50	1.50	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
127	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
128	1.00	0.80	0.80	0.0	0.75	1.05	1.05	1.50	1.50	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
129	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 85 di 378

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
130	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
131	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
132	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	0.90	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
133	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	1.50	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
134	1.30	1.50	1.50	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	1.50	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
135	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.0	0.0	0.0	0.0	1.50	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
136	1.00	0.80	0.80	0.0	0.75	1.05	1.05	0.90	0.90	0.0	0.0	0.0	1.50	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
137	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
138	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
139	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
140	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
141	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
142	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
143	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
144	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
145	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
146	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
147	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
148	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
149	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.0	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
150	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.60	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
151	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.0	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
152	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.60	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
153	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.0	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
154	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.60	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
155	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.0	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
156	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.60	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
157	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	0.0	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
158	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	1.00	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
159	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	1.00	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
160	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	1.00	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
161	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
162	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.60	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
163	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.0	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
164	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.60	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
165	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.0	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
166	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.60	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
167	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.0	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
168	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.60	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
169	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.0	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
170	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.60	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
171	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	0.0	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
172	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	1.00	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
173	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
174	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.0	0.60	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
175	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.0	1.00	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
176	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.0	1.00	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
177	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.0	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
178	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.60	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
179	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.0	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
180	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.60	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
181	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.0	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
182	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.60	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
183	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.0	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
184	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.60	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
185	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	0.0	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
186	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	1.00	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
187	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
188	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.0	0.0	0.60	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
189	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.0	0.0	1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
190	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.0	0.0	1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
191	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.0	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
192	1.00	1.00	1.00	1.00	0.50	0.70	0.70	0.60	0.60	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
193	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.0	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
194	1.00	1.00	1.00	0.0	1.00	0.70	0.70	0.60	0.60	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
195	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.0	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
196	1.00	1.00	1.00	0.0	0.50	1.00	0.70	0.60	0.60	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
197	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.0	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
198	1.00	1.00	1.00	0.0	0.50	0.70	1.00	0.60	0.60	0.0	0.0	0.0	0.60	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
199	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	0.0	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
200	1.00	1.00	1.00	0.0	0.50	0.70	0.70	1.00	1.00	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
201	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
202	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.0	0.0	0.0	0.60	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
203	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.0	0.0	0.0	0.0	1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
204	1.00	1.00	1.00	0.0	0.50	0.70	0.70	0.60	0.60	0.0	0.0	0.0	1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
205	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
206	1.00	1.00	1.00	0.0	0.50	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
207	1.00	1.00	1.00	0.0	0.0	0.50	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
208	1.00	1.00	1.00	0.0	0.0	0.30	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
209	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
210	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.50	0.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
211	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.20	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
212	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
213	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.20	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
214	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.20	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
215	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
216	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
217	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
218	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
219	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
220	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
221	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
222	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
223	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
224	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
225	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
226	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
227	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
228	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
229	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
230	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
231	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
232	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
233	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
234	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
235	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
236	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
237	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
238	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
239	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
240	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
241	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
242	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
243	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
244	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
245	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
246	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
247	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
248	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0			
249	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0			
250	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0			
251	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0			
252	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0			
253	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0			
254	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0			
255	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0			
256	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0			
257	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0			
258	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0			
259	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0			
260	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0			
261	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0			
262	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0			
263	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0			
264	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0			
265	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0			
266	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0			
267	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 89 di 378

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0			
268	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0			
269	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0			
270	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0			
271	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0			
272	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0			
273	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
274	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0			
275	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
276	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0			
277	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0			
278	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0			
279	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0			
280	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0			
281	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0			
282	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0			
283	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0			
284	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30			
285	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30			
286	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30			
287	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30			
288	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0			
289	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0			
290	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0			
291	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0			
292	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30			
293	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30			
294	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30			
295	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30			
296	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0			
297	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0			
298	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0			
299	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0			
300	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0			
301	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
302	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0			
303	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0			
304	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00			
305	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00			
306	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00			
307	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00			
308	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00			
309	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00			
310	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00			
311	1.00	1.00	1.00	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00			

11 AZIONE SISMICA

11.1 VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito <http://esse1.mi.ingv.it/>. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento V_r che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento V_r e la probabilità di superamento P_{ver} associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno T_r e i relativi parametri di pericolosità sismica (vedi tabella successiva):

a_g : accelerazione orizzontale massima del terreno;

F_o : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T^*c : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

11.1.1 Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
III	50.0	1.5	75.0	C	T2

Per la struttura in esame si sono adottati i parametri di pericolosità sismica da analisi di Risposta Sismica locale; si sono adottati i parametri spettrali riportati nelle seguenti tabelle; i parametri consentono la definizione degli spettri elastici come previsto al cap. 3.2 delle norme tecniche:

lo spettro di risposta elastico in accelerazione della componente orizzontale del moto sismico, S_e , è definito dalle seguenti espressioni:

$$\begin{aligned} 0 \leq T < T_B & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left[\frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_B} \right) \right] \\ T_B \leq T < T_C & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \\ T_C \leq T < T_D & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left(\frac{T_C}{T} \right) \\ T_D \leq T & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left(\frac{T_C \cdot T_D}{T^2} \right) \end{aligned}$$

Lo spettro di risposta elastico in accelerazione della componente verticale del moto sismico, S_{ve} , è definito dalle espressioni:

$$\begin{aligned}
0 \leq T < T_B & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left[\frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_B} \right) \right] \\
T_B \leq T < T_C & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \\
T_C \leq T < T_D & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C}{T} \right) \\
T_D \leq T & \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C \cdot T_D}{T^2} \right)
\end{aligned}$$

I valori di S_s , T_B , T_C e T_D , sono riportati nella seguente Tabella

Categoria di sottosuolo	S_s	T_B	T_C	T_D
A, B, C, D, E	1,0	0,05 s	0,15 s	1,0 s

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente $S = S_s \cdot S_t$ (3.2.3); nel caso di RSL i valori sono unitari

F_o è il fattore che quantifica l'amplificazione spettrale massima, su sito in esame

F_v è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno a_g su sito in esame

T_b è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

T_c è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

T_d è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Simbologia adottata nelle tabelle

$Se(t)$	Accelerazioni dello spettro di input
T_r	Periodo di ritorno
T_{min}	Valore minore tra i tre periodi di vibrazione dell'edificio con massa partecipante più elevata
$2T_{max}$	Valore maggiore tra i tre periodi di vibrazione dell'edificio con massa partecipante più elevata moltiplicato per due
Integrale RSL	Integrale dello spettro di risposta sismica locale valutato nell'intervallo compreso tra T_{min} e $2T_{max}$
Integrale NTC*1.2	Integrale dello spettro da normativa amplificato del 20% valutato nell'intervallo compreso tra T_{min} e $2T_{max}$
Rapporto	Rapporto tra Integrale RSL e Integrale NTC*1.2;
Esito confronto RSL vs NTC	- Possibile l'uso dello spettro NTC se Rapporto minore di 1 e $RSL < NTC*1.3$ - Non ammesso l'uso dello spettro NTC se $RSL \geq NTC*1.3$ e Rapporto maggiore di 1 - Non ammesso l'uso dello spettro NTC (30% superato) se $RSL \geq NTC*1.3$ - Non ammesso l'uso dello spettro NTC (rapporto integrali) se Rapporto maggiore di 1
$Se(t)$ RSL	Accelerazioni dello spettro di risposta sismica locale
$Se(t)$ NTC*1.3	Accelerazioni dello spettro da normativa amplificate del 30%
Confronto ord.55	Confronto tra lo spettro di risposta sismica locale e lo spettro da normativa amplificato del 30% nell'intervallo compreso tra T_{min} e $2T_{max}$ secondo

l'Ordinanza n. 55 – 24/04/2018: - Non richiesto (ad di fuori dell'intervallo compreso tra Tmin e 2Tmax); - $RSL \leq NTC \cdot 1.3$; - $RSL > NTC \cdot 1.3$	
Esito confronto RSL vs NTC (0.7 A)	Se lo spettro di risposta sismica locale è minore del 70% dello spettro da normativa non è consentito l'uso dello spettro di risposta sismica locale (7.2.6 NTC 2018): - Possibile l'uso dello spettro RSL; - Non ammesso l'uso di RSL (0.7 non superato).
Se(t) NTC*0.7 suolo tipo A	70% delle Accelerazioni dello spettro da normativa valutato per categoria A di sottosuolo
Confronto NTC	Confronto tra lo spettro di risposta sismica locale e il 70% dello spettro da normativa: - $RSL \geq NTC\_A \cdot 0.7$; - $RSL < NTC\_A \cdot 0.7$

A seguire sono riportati i confronti tra pericolosità sismica RSL e NTC come previsto da Ordinanza n.55 – 24/04/2018 e NTC (7.2.6)

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	13.677	43.122	
22980	13.696	43.135	3.352
22981	13.764	43.135	4.793
22759	13.764	43.185	4.667
22758	13.696	43.185	3.170

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	45.2	0.098	2.524	0.461
SLD	63.0	75.4	0.126	2.640	0.438
SLV	10.0	711.8	0.281	2.347	0.462
SLC	5.0	1462.2	0.366	2.312	0.474

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.098	1.000	2.524	1.064	0.154	0.461	1.990
SLD	0.126	1.000	2.640	1.263	0.146	0.438	2.102
SLV	0.281	1.000	2.347	1.680	0.154	0.462	2.724
SLC	0.366	1.000	2.312	1.889	0.158	0.474	3.064

Modo	Frequenza	Periodo	X M efficace x g	%	Y M efficace x g	%	Z M efficace x g	%	RZ M efficace x g	%
	1/sec	sec	daN		daN		daN		daN cm2	
1	4.76	0.21	4.7	0	2.792e+05	79	23.7	0	1.721e+07	64
2	8.82	0.11	2.563e+05	73	35.2	0	5488.0	1	1096.2	0
3	11.32	0.09	97.3	0	9811.2	2	520.9	0	5.402e+06	20
4	13.91	0.07	7093.9	2	291.7	0	3.365e+05	96	5366.3	0
5	16.24	0.06	270.7	0	1.266e+04	3	1735.1	0	1.635e+05	0
6	20.08	0.05	8.427e+04	24	36.6	0	1264.8	0	23.9	0

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 94 di 378

Periodo di ritorno <Tr>	Accelerazione max <ag>	Amplificazione <Fo>	Inizio v=costante <T*c>
	[g]		[s]
30	0.080	2.486	0.451
50	0.102	2.533	0.464
72	0.123	2.645	0.438
75	0.126	2.658	0.435
101	0.140	2.610	0.439
140	0.157	2.558	0.443
201	0.179	2.501	0.447
475	0.242	2.372	0.458
712	0.280	2.314	0.463
975	0.315	2.327	0.466
2475	0.444	2.293	0.485

Confronto spettri RSL vs NTC	
Tmin	0.100
2Tmax	0.700
Integrale RSL	0.315
Integrale NTC*1.2	0.517
Rapporto	0.610
Esito confronto	Possibile l'uso dello spettro NTC

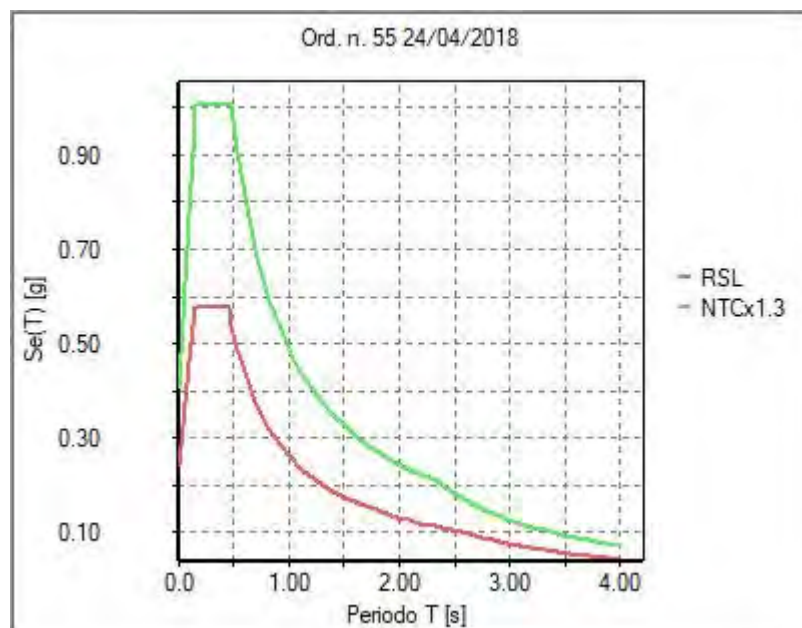


Figura 36 -

Periodo	Se(t) RSL	Se(t) NTC*1.3	Confronto ord.55
[s]	[g]	[g]	
0.000	0.243	0.407	Non richiesto
0.100	0.460	0.775	RSL <= NTC*1.3
0.153	0.575	0.968	RSL <= NTC*1.3
0.162	0.575	1.004	RSL <= NTC*1.3
0.249	0.575	1.004	RSL <= NTC*1.3
0.346	0.575	1.004	RSL <= NTC*1.3
0.443	0.575	1.004	RSL <= NTC*1.3
0.458	0.575	1.004	RSL <= NTC*1.3
0.487	0.541	1.004	RSL <= NTC*1.3
0.539	0.488	0.907	RSL <= NTC*1.3
0.636	0.414	0.769	RSL <= NTC*1.3
0.700	0.376	0.699	RSL <= NTC*1.3
0.733	0.359	0.668	Non richiesto
0.830	0.318	0.590	Non richiesto
0.926	0.284	0.528	Non richiesto
1.023	0.258	0.478	Non richiesto
1.120	0.235	0.437	Non richiesto
1.216	0.217	0.402	Non richiesto
1.313	0.201	0.373	Non richiesto
1.410	0.187	0.347	Non richiesto
1.506	0.175	0.325	Non richiesto
1.603	0.164	0.305	Non richiesto
1.700	0.155	0.288	Non richiesto
1.796	0.147	0.272	Non richiesto
1.893	0.139	0.259	Non richiesto

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Periodo	Se(t) RSL	Se(t) NTC*1.3	Confronto ord.55
1.990	0.132	0.246	Non richiesto
2.087	0.126	0.235	Non richiesto
2.183	0.121	0.224	Non richiesto
2.280	0.116	0.215	Non richiesto
2.330	0.113	0.210	Non richiesto
2.377	0.111	0.202	Non richiesto
2.473	0.107	0.186	Non richiesto
2.570	0.103	0.173	Non richiesto
2.627	0.098	0.165	Non richiesto
2.684	0.094	0.158	Non richiesto
2.742	0.090	0.152	Non richiesto
2.799	0.086	0.146	Non richiesto
2.856	0.083	0.140	Non richiesto
2.913	0.080	0.134	Non richiesto
2.970	0.077	0.129	Non richiesto
3.028	0.074	0.124	Non richiesto
3.085	0.071	0.120	Non richiesto
3.142	0.069	0.116	Non richiesto
3.199	0.066	0.111	Non richiesto
3.256	0.064	0.108	Non richiesto
3.314	0.062	0.104	Non richiesto
3.371	0.060	0.100	Non richiesto
3.428	0.058	0.097	Non richiesto
3.485	0.056	0.094	Non richiesto
3.542	0.054	0.091	Non richiesto
3.600	0.052	0.088	Non richiesto
3.657	0.051	0.085	Non richiesto
3.714	0.049	0.083	Non richiesto
3.771	0.048	0.080	Non richiesto
3.828	0.046	0.078	Non richiesto
3.886	0.045	0.076	Non richiesto
3.943	0.044	0.073	Non richiesto
4.000	0.042	0.071	Non richiesto

Confronto spettro RSL vs NTC (0.7 A)	
Esito confronto	Possibile l'uso dello spettro RSL

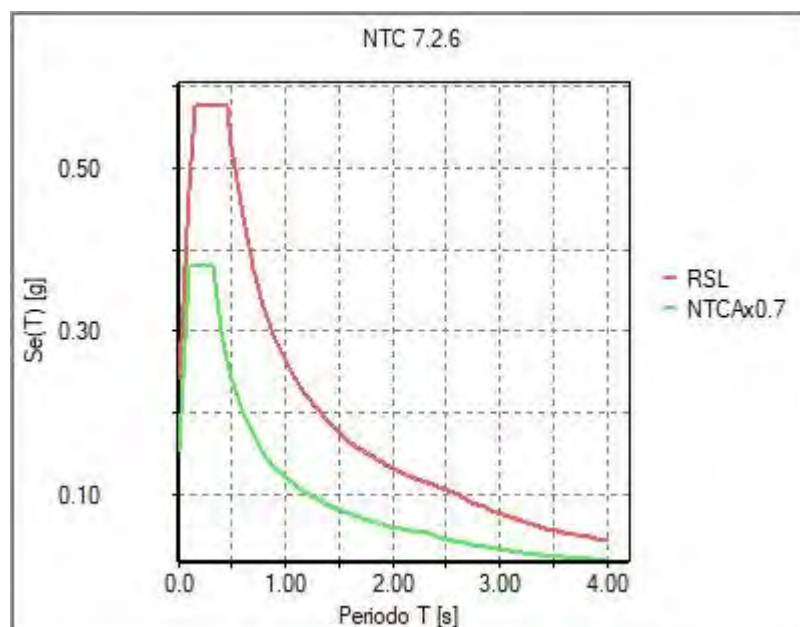


Figura 37 -

Periodo [s]	Se(t) RSL [g]	Se(t) NTC*0.7 suolo tipo A [g]	Confronto NTC
0.000	0.243	0.153	RSL >= NTC_A*0.7
0.106	0.474	0.378	RSL >= NTC_A*0.7
0.153	0.575	0.378	RSL >= NTC_A*0.7
0.205	0.575	0.378	RSL >= NTC_A*0.7
0.303	0.575	0.378	RSL >= NTC_A*0.7
0.318	0.575	0.378	RSL >= NTC_A*0.7
0.402	0.575	0.299	RSL >= NTC_A*0.7
0.458	0.575	0.263	RSL >= NTC_A*0.7
0.500	0.527	0.240	RSL >= NTC_A*0.7
0.599	0.440	0.201	RSL >= NTC_A*0.7
0.697	0.378	0.172	RSL >= NTC_A*0.7
0.796	0.331	0.151	RSL >= NTC_A*0.7
0.894	0.295	0.134	RSL >= NTC_A*0.7
0.993	0.265	0.121	RSL >= NTC_A*0.7
1.092	0.241	0.110	RSL >= NTC_A*0.7
1.190	0.221	0.101	RSL >= NTC_A*0.7
1.289	0.204	0.093	RSL >= NTC_A*0.7
1.387	0.190	0.087	RSL >= NTC_A*0.7
1.486	0.177	0.081	RSL >= NTC_A*0.7
1.584	0.166	0.076	RSL >= NTC_A*0.7
1.683	0.157	0.071	RSL >= NTC_A*0.7
1.782	0.148	0.068	RSL >= NTC_A*0.7
1.880	0.140	0.064	RSL >= NTC_A*0.7
1.979	0.133	0.061	RSL >= NTC_A*0.7
2.077	0.127	0.058	RSL >= NTC_A*0.7
2.176	0.121	0.055	RSL >= NTC_A*0.7
2.274	0.116	0.053	RSL >= NTC_A*0.7
2.330	0.113	0.052	RSL >= NTC_A*0.7
2.373	0.111	0.050	RSL >= NTC_A*0.7
2.471	0.107	0.046	RSL >= NTC_A*0.7

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Periodo	Se(t) RSL	Se(t) NTC*0.7 suolo tipo A	Confronto NTC
2.570	0.103	0.042	RSL >= NTC_A*0.7
2.627	0.098	0.041	RSL >= NTC_A*0.7
2.684	0.094	0.039	RSL >= NTC_A*0.7
2.742	0.090	0.037	RSL >= NTC_A*0.7
2.799	0.086	0.036	RSL >= NTC_A*0.7
2.856	0.083	0.034	RSL >= NTC_A*0.7
2.913	0.080	0.033	RSL >= NTC_A*0.7
2.970	0.077	0.032	RSL >= NTC_A*0.7
3.028	0.074	0.031	RSL >= NTC_A*0.7
3.085	0.071	0.029	RSL >= NTC_A*0.7
3.142	0.069	0.028	RSL >= NTC_A*0.7
3.199	0.066	0.027	RSL >= NTC_A*0.7
3.256	0.064	0.026	RSL >= NTC_A*0.7
3.314	0.062	0.026	RSL >= NTC_A*0.7
3.371	0.060	0.025	RSL >= NTC_A*0.7
3.428	0.058	0.024	RSL >= NTC_A*0.7
3.485	0.056	0.023	RSL >= NTC_A*0.7
3.542	0.054	0.022	RSL >= NTC_A*0.7
3.600	0.052	0.022	RSL >= NTC_A*0.7
3.657	0.051	0.021	RSL >= NTC_A*0.7
3.714	0.049	0.020	RSL >= NTC_A*0.7
3.771	0.048	0.020	RSL >= NTC_A*0.7
3.828	0.046	0.019	RSL >= NTC_A*0.7
3.886	0.045	0.019	RSL >= NTC_A*0.7
3.943	0.044	0.018	RSL >= NTC_A*0.7
4.000	0.042	0.018	RSL >= NTC_A*0.7

Periodo di ritorno <Tr>	Esito confronto
30	Possibile l'uso dello spettro RSL
50	Possibile l'uso dello spettro RSL
72	Possibile l'uso dello spettro RSL
101	Possibile l'uso dello spettro RSL
140	Possibile l'uso dello spettro RSL
201	Possibile l'uso dello spettro RSL
475	Possibile l'uso dello spettro RSL
975	Possibile l'uso dello spettro RSL
2475	Possibile l'uso dello spettro RSL

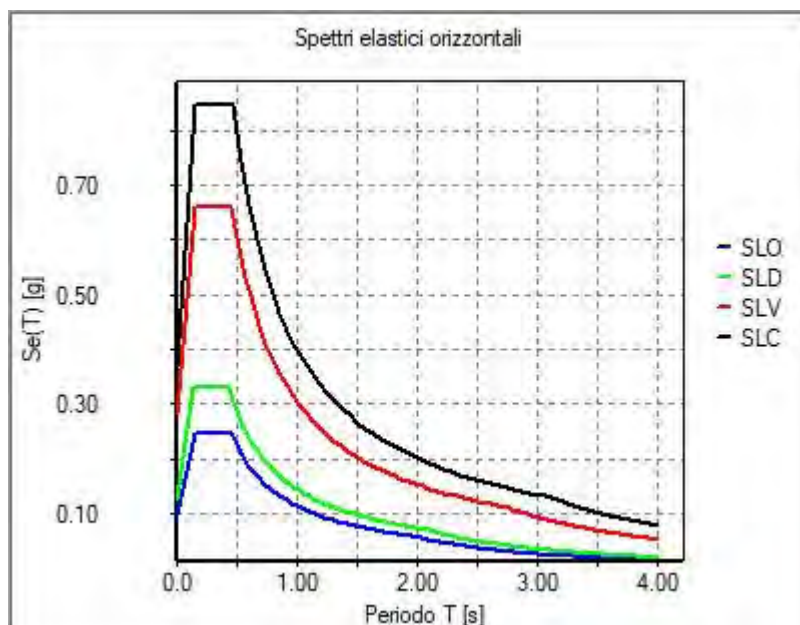


Figura 38- DIA_SPETTRI_ELASTICI_O

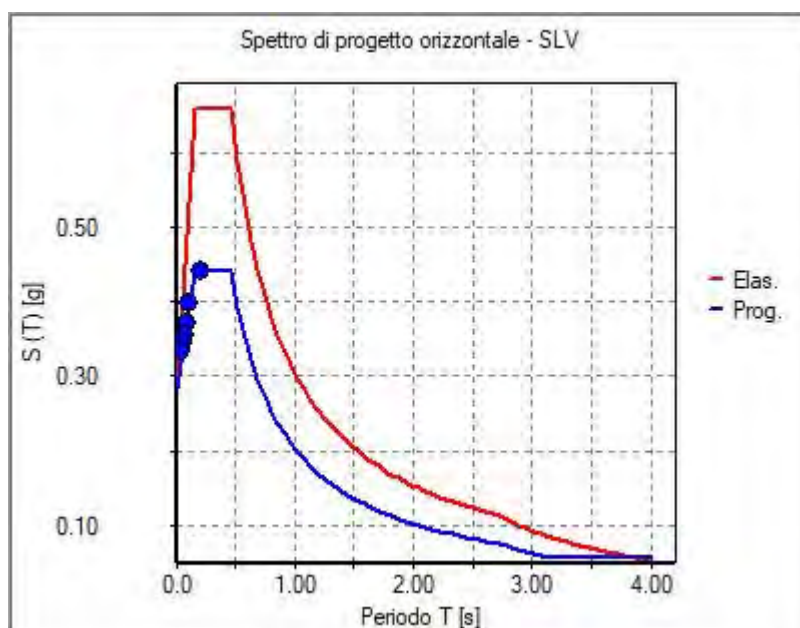


Figura 39 - DIA_SPETTRI_PROGETTO_SLV_O

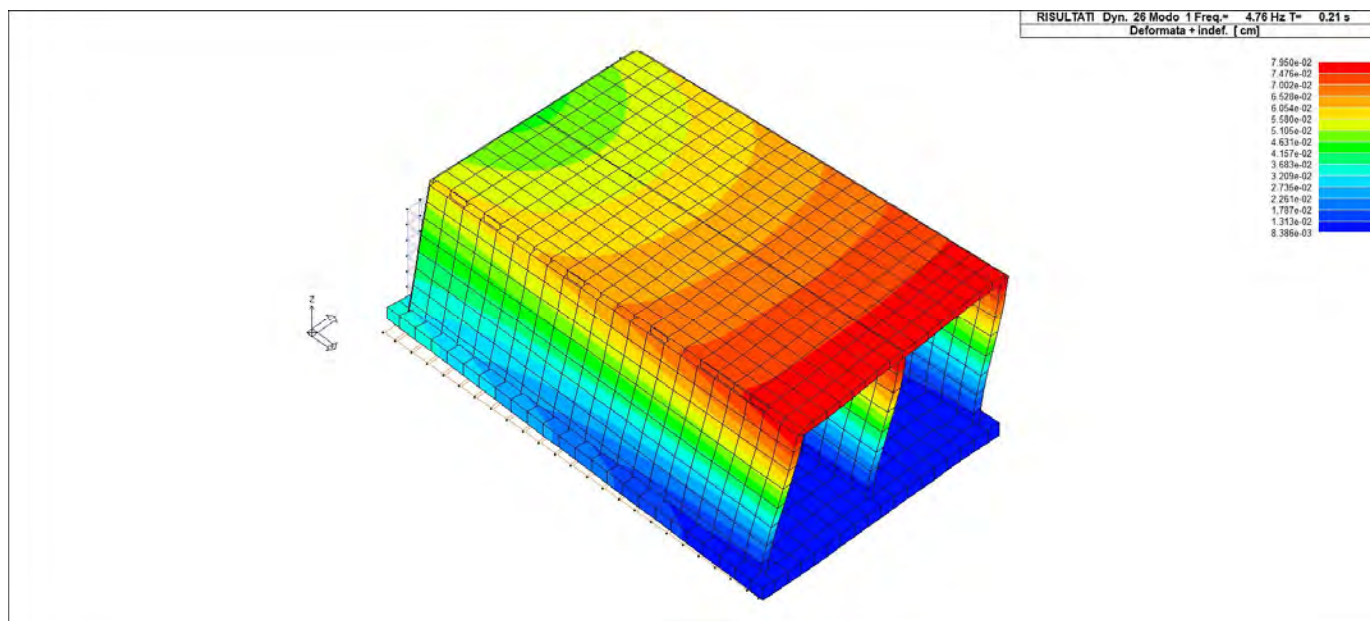


Figura 40 - INPSIS_001_FORME MODALI

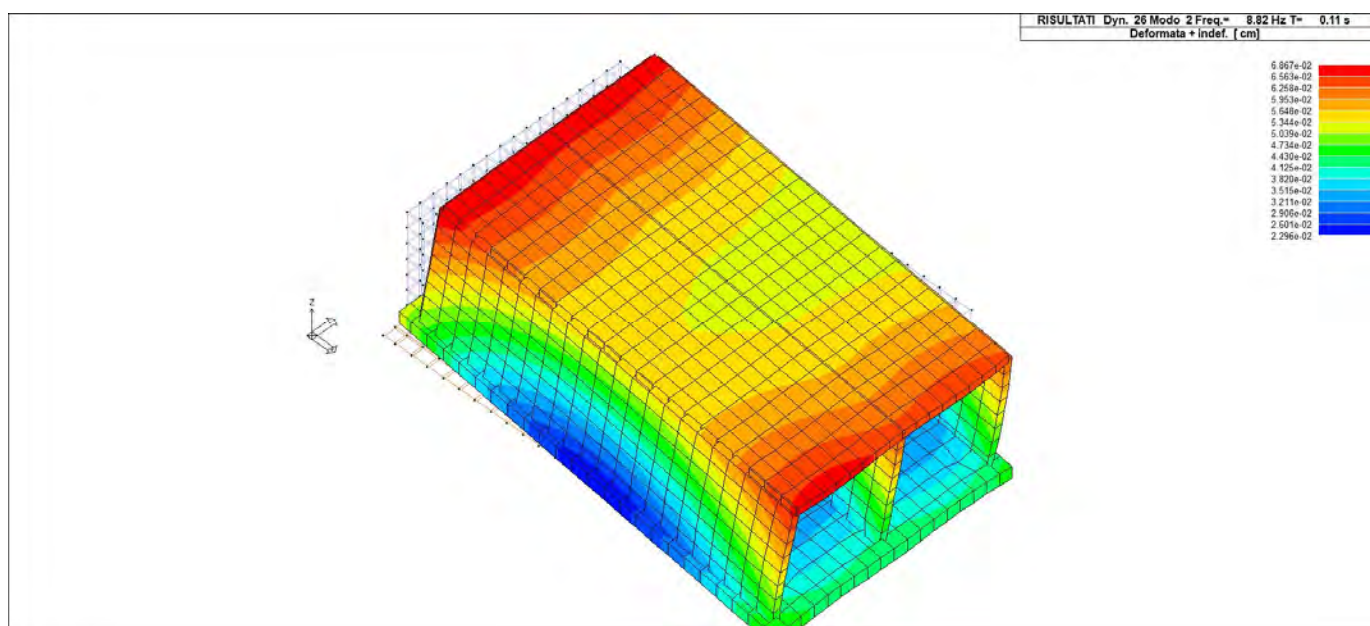


Figura 41 - INPSIS_002_FORME MODALI

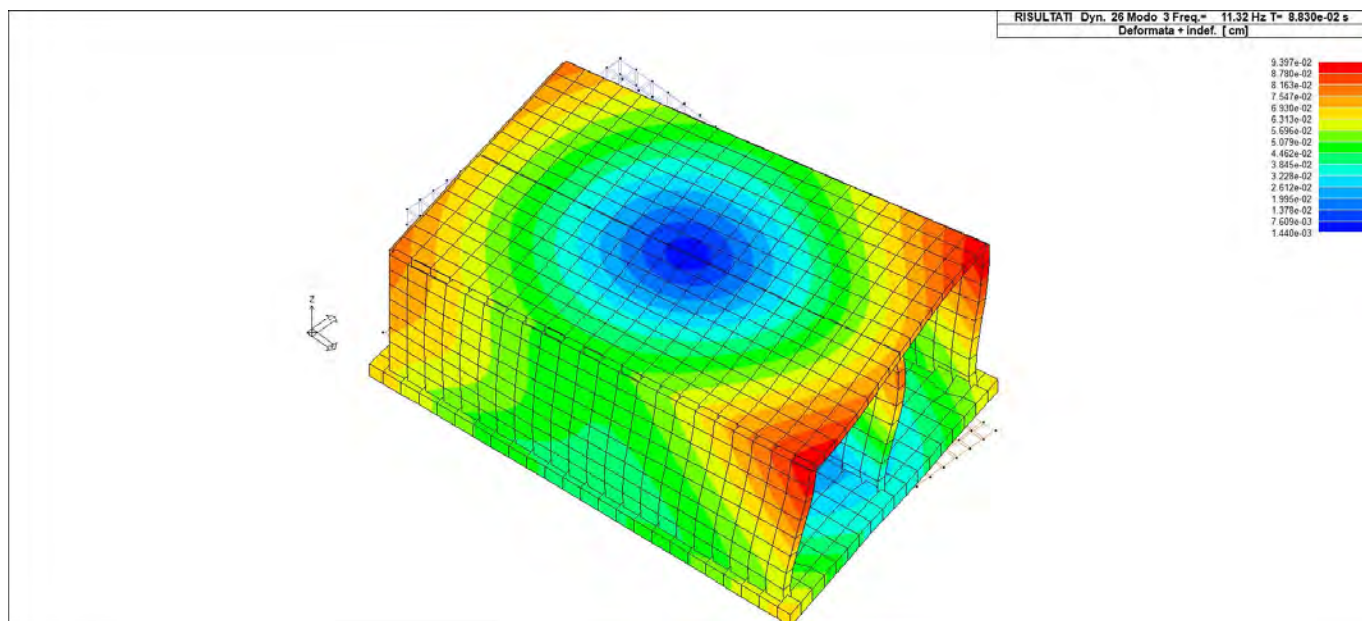


Figura 42 - INPSIS_003_FORME MODALI

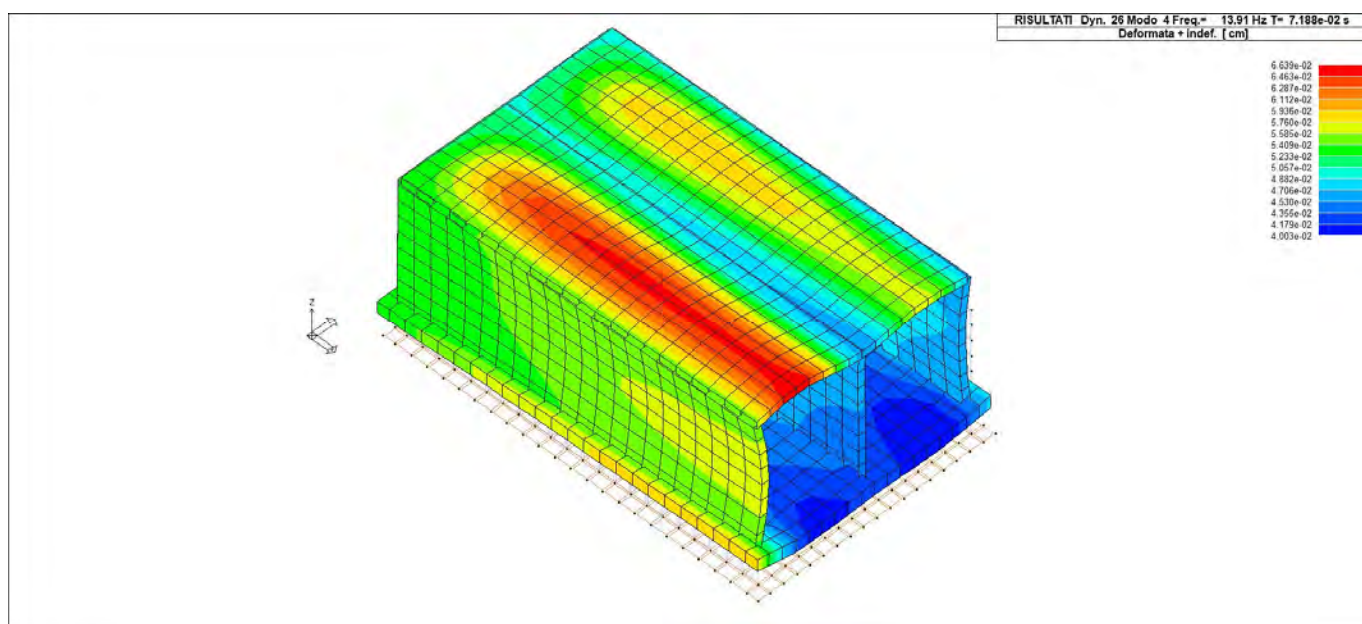


Figura 43 - INPSIS_004_FORME MODALI

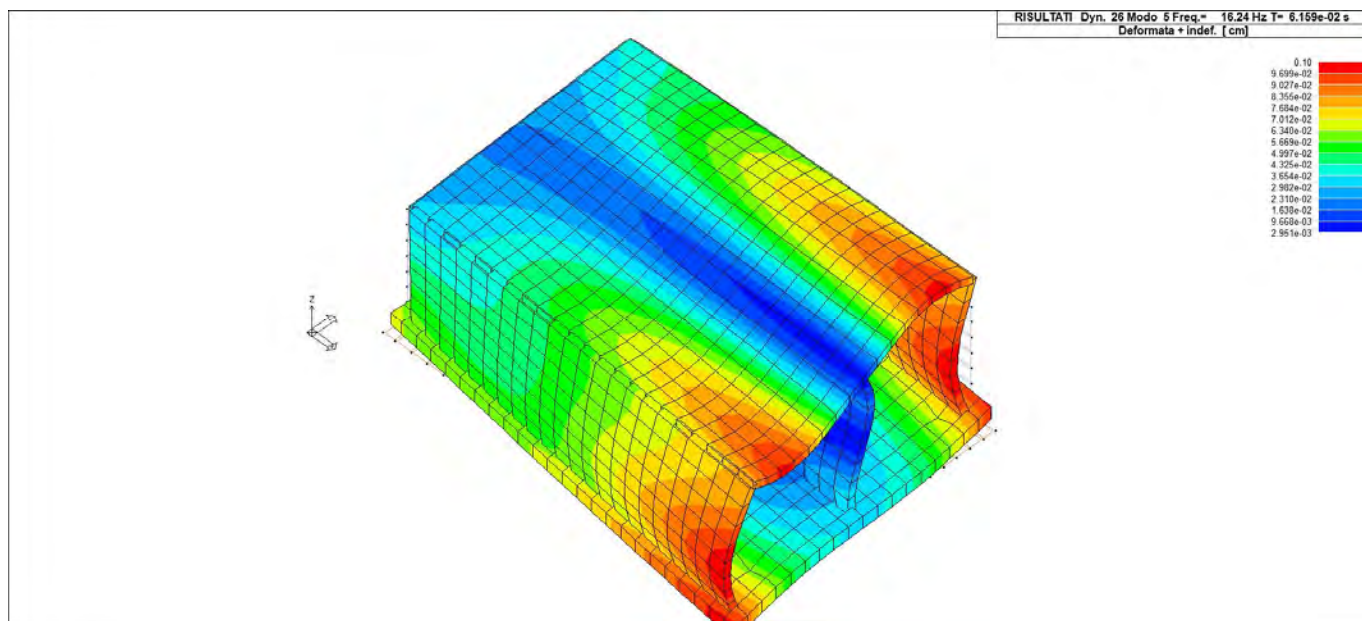


Figura 44 - INPSIS_005_FORME MODALI

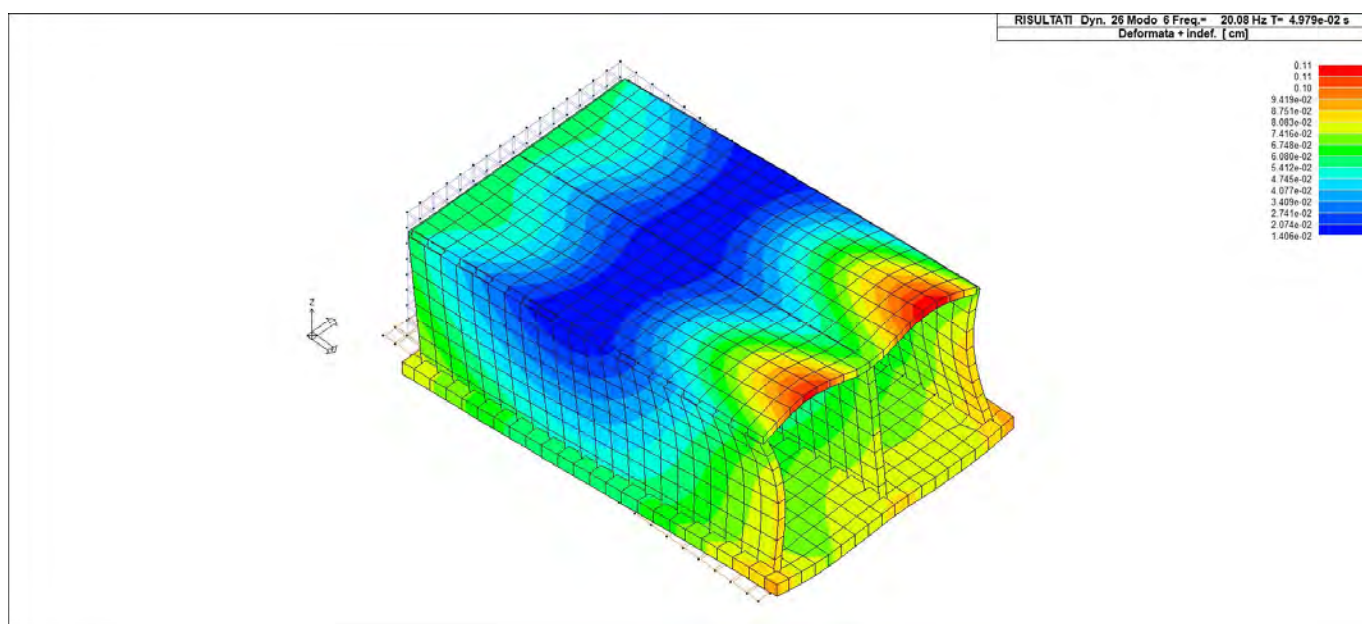


Figura 45 - INPSIS_006_FORME MODALI

12 RISULTATI ANALISI SISMICHE

12.1 LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

9. Esk caso di carico sismico con analisi statica equivalente

10. Edk caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l'azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Amplificazione ND	Coefficiente di amplificazione q/q_{ND} delle azioni sismiche (solo per elementi progettati in campo non dissipativo)
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	Valore dell'ordinata dello spettro in uso nel tratto costante
N°di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Nel caso di elementi progettati in campo non dissipativo vengono adottate le sollecitazioni calcolate con un fattore q_{ND} ricavato come da 7.3.2 in funzione del fattore di comportamento q utilizzato per la struttura: $1 < q_{ND} = 2/3 * q < 1.5$

Il coefficiente di amplificazione delle azioni sismiche rispetto alle azioni calcolate con il fattore di comportamento globale viene indicato nelle relative tabelle.

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

- a) analisi sismica statica equivalente:
 - quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - azione sismica complessiva
- b) analisi sismica dinamica con spettro di risposta:
 - quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
 - massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione η_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \eta_T/h$ da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione η_T , η_P e η_D degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \eta_T/h$ da confrontare direttamente con il valore 2 o 4 per la verifica.

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare n.7/2019 del C.S.LL.PP nelle combinazioni in SLC come previsto dal DM 17-01-2018. Per ogni combinazione è riportato il codice di verifica ed i valori utilizzati per la verifica: spostamento d_E , area ridotta e dimensione A_2 , azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio.

In particolare la tabella, per ogni combinazione di calcolo, riporta:

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva, NV – verifica negativa, ND – verifica non completata
d_E	Spostamento relativo tra le due facce combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta A_r (per dispositivi circolari)
V	Azione verticale agente
A_r	Area ridotta efficace
Dim A_2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elastomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

- 1) $V > 0$
- 2) $\text{Sig } s < f_y k$
- 3) $\text{Gam } t < 5$
- 4) $\text{Gam } s < \text{Gam } * \text{ (caratteristica dell' elastomero)}$
- 5) $\text{Gam } s < 2$
- 6) $V < 0.5 V_{cr}$

CDC	Tipo	Sigla Id	Note
14	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.440 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.114 s
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. μ d: 3.029
			classe di duttilità CD: ND
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	0.0	-45.00	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.764	0.210	0.440	173.40	4.95e-02	2.790e+05	79.7	26.22	7.49e-03	0.0	0.0
2	8.782	0.114	0.398	2.546e+05	72.7	649.06	0.2	5117.98	1.5	0.0	0.0
3	11.390	0.088	0.372	1586.39	0.5	9244.78	2.6	2150.85	0.6	0.0	0.0
4	13.923	0.072	0.355	7127.29	2.0	322.94	9.23e-02	3.357e+05	95.9	0.0	0.0
5	16.226	0.062	0.345	562.22	0.2	1.259e+04	3.6	1254.14	0.4	0.0	0.0
6	20.110	0.050	0.332	8.400e+04	24.0	178.71	5.11e-02	1254.64	0.4	0.0	0.0
7	24.699	0.040	0.323	1.75	4.99e-04	3.013e+04	8.6	14.85	4.24e-03	0.0	0.0
8	27.127	0.037	0.319	1.05	3.00e-04	329.23	9.41e-02	3.57	1.02e-03	0.0	0.0
9	28.430	0.035	0.317	6.14	1.75e-03	1.314e+04	3.8	0.04	1.10e-05	0.0	0.0
Risulta				3.480e+05		3.456e+05		3.455e+05			
In percentuale				99.43		98.74		98.71			

CDC	Tipo	Sigla Id	Note
15	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

EdilAlta

Anaergia
Fueling a Sustainable World

OWAC
ENGINEERING COMPANY

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 106 di 378

CDC	Tipo	Sigla Id	Note
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.440 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.114 s
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 3.035
			classe di duttilità CD: ND
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	0.0	45.00	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.765	0.210	0.440	77.77	2.22e-02	2.792e+05	79.8	21.35	6.10e-03	0.0	0.0
2	8.809	0.114	0.398	2.560e+05	73.1	196.19	5.60e-02	5529.94	1.6	0.0	0.0
3	11.363	0.088	0.372	471.27	0.1	9652.24	2.8	0.02	4.53e-06	0.0	0.0
4	13.906	0.072	0.355	7079.66	2.0	263.35	7.52e-02	3.364e+05	96.1	0.0	0.0
5	16.249	0.062	0.345	80.76	2.31e-02	1.271e+04	3.6	2286.16	0.7	0.0	0.0
6	20.094	0.050	0.332	8.435e+04	24.1	1.76	5.03e-04	1226.79	0.4	0.0	0.0
7	24.699	0.040	0.323	2.48	7.09e-04	3.016e+04	8.6	15.26	4.36e-03	0.0	0.0
8	27.127	0.037	0.319	1.35	3.86e-04	328.85	9.39e-02	3.88	1.11e-03	0.0	0.0
9	28.430	0.035	0.317	0.06	1.58e-05	1.315e+04	3.8	0.20	5.77e-05	0.0	0.0
Risulta				3.480e+05		3.456e+05		3.455e+05			
In percentuale				99.43		98.74		98.71			

CDC	Tipo	Sigla Id	Note
16	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.440 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.215 s
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 2.074
			classe di duttilità CD: ND
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	74.25	0.0	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.648	0.215	0.440	5.48	1.56e-03	2.776e+05	79.3	21.28	6.08e-03	0.0	0.0
2	8.822	0.113	0.398	2.563e+05	73.2	32.78	9.37e-03	5480.64	1.6	0.0	0.0
3	11.542	0.087	0.370	60.79	1.74e-02	8790.78	2.5	797.55	0.2	0.0	0.0
4	13.911	0.072	0.355	7038.53	2.0	267.56	7.64e-02	3.362e+05	96.1	0.0	0.0
5	16.310	0.061	0.344	261.08	7.46e-02	1.029e+04	2.9	1446.28	0.4	0.0	0.0
6	20.050	0.050	0.333	8.387e+04	24.0	33.44	9.55e-03	1092.79	0.3	0.0	0.0
7	23.794	0.042	0.324	1.42	4.05e-04	3.422e+04	9.8	20.95	5.99e-03	0.0	0.0
8	26.873	0.037	0.319	3.33	9.51e-04	5518.11	1.6	1.57	4.48e-04	0.0	0.0
9	27.196	0.037	0.319	2.27e-03	0.0	8227.11	2.4	2.90	8.29e-04	0.0	0.0
Risulta				3.476e+05		3.450e+05		3.451e+05			
In percentuale				99.29		98.56		98.59			

CDC	Tipo	Sigla Id	Note
17	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.440 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.205 s
			fattore q: 1.500
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 2.126
			classe di duttilità CD: ND
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	-74.25	0.0	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.876	0.205	0.440	3.69	1.05e-03	2.819e+05	80.5	26.27	7.50e-03	0.0	0.0
2	8.822	0.113	0.398	2.563e+05	73.2	34.10	9.74e-03	5498.23	1.6	0.0	0.0
3	11.271	0.089	0.373	122.06	3.49e-02	9836.22	2.8	379.55	0.1	0.0	0.0
4	13.914	0.072	0.355	7147.80	2.0	316.11	9.03e-02	3.366e+05	96.2	0.0	0.0
5	16.183	0.062	0.345	277.42	7.93e-02	1.472e+04	4.2	1968.90	0.6	0.0	0.0
6	20.109	0.050	0.332	8.449e+04	24.1	37.31	1.07e-02	1407.94	0.4	0.0	0.0
7	25.655	0.039	0.321	2.20	6.29e-04	2.578e+04	7.4	11.23	3.21e-03	0.0	0.0
8	27.142	0.037	0.319	0.81	2.31e-04	798.64	0.2	3.48	9.94e-04	0.0	0.0
9	29.868	0.033	0.316	1.76	5.02e-04	1.239e+04	3.5	0.31	8.99e-05	0.0	0.0
Risulta				3.483e+05		3.458e+05		3.459e+05			
In percentuale				99.52		98.78		98.81			

CDC	Tipo	Sigla Id	Note
18	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.332 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.114 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	0.0	-45.00	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.764	0.210	0.332	173.40	4.95e-02	2.790e+05	79.7	26.22	7.49e-03	0.0	0.0
2	8.782	0.114	0.286	2.546e+05	72.7	649.06	0.2	5117.98	1.5	0.0	0.0
3	11.390	0.088	0.249	1586.39	0.5	9244.78	2.6	2150.85	0.6	0.0	0.0
4	13.923	0.072	0.227	7127.29	2.0	322.94	9.23e-02	3.357e+05	95.9	0.0	0.0
5	16.226	0.062	0.213	562.22	0.2	1.259e+04	3.6	1254.14	0.4	0.0	0.0
6	20.110	0.050	0.196	8.400e+04	24.0	178.71	5.11e-02	1254.64	0.4	0.0	0.0
7	24.699	0.040	0.183	1.75	4.99e-04	3.013e+04	8.6	14.85	4.24e-03	0.0	0.0
8	27.127	0.037	0.178	1.05	3.00e-04	329.23	9.41e-02	3.57	1.02e-03	0.0	0.0
9	28.430	0.035	0.175	6.14	1.75e-03	1.314e+04	3.8	0.04	1.10e-05	0.0	0.0
Risulta				3.480e+05		3.456e+05		3.455e+05			
In percentuale				99.43		98.74		98.71			

CDC	Tipo	Sigla Id	Note
19	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.332 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.114 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	0.0	45.00	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.765	0.210	0.332	77.77	2.22e-02	2.792e+05	79.8	21.35	6.10e-03	0.0	0.0
2	8.809	0.114	0.286	2.560e+05	73.1	196.19	5.60e-02	5529.94	1.6	0.0	0.0
3	11.363	0.088	0.250	471.27	0.1	9652.24	2.8	0.02	4.53e-06	0.0	0.0
4	13.906	0.072	0.227	7079.66	2.0	263.35	7.52e-02	3.364e+05	96.1	0.0	0.0
5	16.249	0.062	0.212	80.76	2.31e-02	1.271e+04	3.6	2286.16	0.7	0.0	0.0
6	20.094	0.050	0.196	8.435e+04	24.1	1.76	5.03e-04	1226.79	0.4	0.0	0.0
7	24.699	0.040	0.183	2.48	7.09e-04	3.016e+04	8.6	15.26	4.36e-03	0.0	0.0
8	27.127	0.037	0.178	1.35	3.86e-04	328.85	9.39e-02	3.88	1.11e-03	0.0	0.0
9	28.430	0.035	0.175	0.06	1.58e-05	1.315e+04	3.8	0.20	5.77e-05	0.0	0.0
Risulta				3.480e+05		3.456e+05		3.455e+05			
In percentuale				99.43		98.74		98.71			

CDC	Tipo	Sigla Id	Note
20	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.332 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.215 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	74.25	0.0	204.06	650.00	0.538	0.541	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 110 di 378

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
459.38	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.648	0.215	0.332	5.48	1.56e-03	2.776e+05	79.3	21.28	6.08e-03	0.0	0.0
2	8.822	0.113	0.286	2.563e+05	73.2	32.78	9.37e-03	5480.64	1.6	0.0	0.0
3	11.542	0.087	0.248	60.79	1.74e-02	8790.78	2.5	797.55	0.2	0.0	0.0
4	13.911	0.072	0.227	7038.53	2.0	267.56	7.64e-02	3.362e+05	96.1	0.0	0.0
5	16.310	0.061	0.212	261.08	7.46e-02	1.029e+04	2.9	1446.28	0.4	0.0	0.0
6	20.050	0.050	0.196	8.387e+04	24.0	33.44	9.55e-03	1092.79	0.3	0.0	0.0
7	23.794	0.042	0.185	1.42	4.05e-04	3.422e+04	9.8	20.95	5.99e-03	0.0	0.0
8	26.873	0.037	0.178	3.33	9.51e-04	5518.11	1.6	1.57	4.48e-04	0.0	0.0
9	27.196	0.037	0.177	2.27e-03	0.0	8227.11	2.4	2.90	8.29e-04	0.0	0.0
Risulta				3.476e+05		3.450e+05		3.451e+05			
In percentuale				99.29		98.56		98.59			

CDC	Tipo	Sigla Id	Note
21	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.332 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.205 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	-74.25	0.0	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.876	0.205	0.332	3.69	1.05e-03	2.819e+05	80.5	26.27	7.50e-03	0.0	0.0
2	8.822	0.113	0.286	2.563e+05	73.2	34.10	9.74e-03	5498.23	1.6	0.0	0.0
3	11.271	0.089	0.251	122.06	3.49e-02	9836.22	2.8	379.55	0.1	0.0	0.0
4	13.914	0.072	0.227	7147.80	2.0	316.11	9.03e-02	3.366e+05	96.2	0.0	0.0
5	16.183	0.062	0.213	277.42	7.93e-02	1.472e+04	4.2	1968.90	0.6	0.0	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 111 di 378

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
6	20.109	0.050	0.196	8.449e+04	24.1	37.31	1.07e-02	1407.94	0.4	0.0	0.0
7	25.655	0.039	0.181	2.20	6.29e-04	2.578e+04	7.4	11.23	3.21e-03	0.0	0.0
8	27.142	0.037	0.178	0.81	2.31e-04	798.64	0.2	3.48	9.94e-04	0.0	0.0
9	29.868	0.033	0.173	1.76	5.02e-04	1.239e+04	3.5	0.31	8.99e-05	0.0	0.0
Risulta				3.483e+05		3.458e+05		3.459e+05			
In percentuale				99.52		98.78		98.81			

CDC	Tipo	Sigla Id	Note
22	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.246 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.114 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	0.0	-45.00	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	0.0	-45.00	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.764	0.210	0.246	173.40	4.95e-02	2.790e+05	79.7	26.22	7.49e-03	0.0	0.0
2	8.782	0.114	0.207	2.546e+05	72.7	649.06	0.2	5117.98	1.5	0.0	0.0
3	11.390	0.088	0.182	1586.39	0.5	9244.78	2.6	2150.85	0.6	0.0	0.0
4	13.923	0.072	0.167	7127.29	2.0	322.94	9.23e-02	3.357e+05	95.9	0.0	0.0
5	16.226	0.062	0.157	562.22	0.2	1.259e+04	3.6	1254.14	0.4	0.0	0.0
6	20.110	0.050	0.145	8.400e+04	24.0	178.71	5.11e-02	1254.64	0.4	0.0	0.0
7	24.699	0.040	0.137	1.75	4.99e-04	3.013e+04	8.6	14.85	4.24e-03	0.0	0.0
8	27.127	0.037	0.133	1.05	3.00e-04	329.23	9.41e-02	3.57	1.02e-03	0.0	0.0
9	28.430	0.035	0.131	6.14	1.75e-03	1.314e+04	3.8	0.04	1.10e-05	0.0	0.0
Risulta				3.480e+05		3.456e+05		3.455e+05			
In percentuale				99.43		98.74		98.71			

CDC	Tipo	Sigla Id	Note
23	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.246 g
			angolo di ingresso:0.0

CDC	Tipo	Sigla Id	Note
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.114 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	0.0	45.00	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	0.0	45.00	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.765	0.210	0.246	77.77	2.22e-02	2.792e+05	79.8	21.35	6.10e-03	0.0	0.0
2	8.809	0.114	0.207	2.560e+05	73.1	196.19	5.60e-02	5529.94	1.6	0.0	0.0
3	11.363	0.088	0.182	471.27	0.1	9652.24	2.8	0.02	4.53e-06	0.0	0.0
4	13.906	0.072	0.167	7079.66	2.0	263.35	7.52e-02	3.364e+05	96.1	0.0	0.0
5	16.249	0.062	0.157	80.76	2.31e-02	1.271e+04	3.6	2286.16	0.7	0.0	0.0
6	20.094	0.050	0.146	8.435e+04	24.1	1.76	5.03e-04	1226.79	0.4	0.0	0.0
7	24.699	0.040	0.137	2.48	7.09e-04	3.016e+04	8.6	15.26	4.36e-03	0.0	0.0
8	27.127	0.037	0.133	1.35	3.86e-04	328.85	9.39e-02	3.88	1.11e-03	0.0	0.0
9	28.430	0.035	0.131	0.06	1.58e-05	1.315e+04	3.8	0.20	5.77e-05	0.0	0.0
Risulta				3.480e+05		3.456e+05		3.455e+05			
In percentuale				99.43		98.74		98.71			

CDC	Tipo	Sigla Id	Note
24	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.246 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.215 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	74.25	0.0	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	74.25	0.0	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.648	0.215	0.246	5.48	1.56e-03	2.776e+05	79.3	21.28	6.08e-03	0.0	0.0
2	8.822	0.113	0.207	2.563e+05	73.2	32.78	9.37e-03	5480.64	1.6	0.0	0.0
3	11.542	0.087	0.181	60.79	1.74e-02	8790.78	2.5	797.55	0.2	0.0	0.0
4	13.911	0.072	0.167	7038.53	2.0	267.56	7.64e-02	3.362e+05	96.1	0.0	0.0
5	16.310	0.061	0.157	261.08	7.46e-02	1.029e+04	2.9	1446.28	0.4	0.0	0.0
6	20.050	0.050	0.146	8.387e+04	24.0	33.44	9.55e-03	1092.79	0.3	0.0	0.0
7	23.794	0.042	0.138	1.42	4.05e-04	3.422e+04	9.8	20.95	5.99e-03	0.0	0.0
8	26.873	0.037	0.133	3.33	9.51e-04	5518.11	1.6	1.57	4.48e-04	0.0	0.0
9	27.196	0.037	0.133	2.27e-03	0.0	8227.11	2.4	2.90	8.29e-04	0.0	0.0
Risulta				3.476e+05		3.450e+05		3.451e+05			
In percentuale				99.29		98.56		98.59			

CDC	Tipo	Sigla Id	Note
25	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.246 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.205 s
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
525.00	1.655e+05	932.57	650.00	-74.25	0.0	204.06	650.00	0.538	0.541	0.0
459.38	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
393.75	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
328.12	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
262.50	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
196.88	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
131.25	2.636e+04	817.71	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
65.62	2.636e+04	817.68	650.00	-74.25	0.0	204.06	650.00	0.538	0.456	0.0
Risulta	3.500e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.876	0.205	0.246	3.69	1.05e-03	2.819e+05	80.5	26.27	7.50e-03	0.0	0.0
2	8.822	0.113	0.207	2.563e+05	73.2	34.10	9.74e-03	5498.23	1.6	0.0	0.0
3	11.271	0.089	0.183	122.06	3.49e-02	9836.22	2.8	379.55	0.1	0.0	0.0
4	13.914	0.072	0.167	7147.80	2.0	316.11	9.03e-02	3.366e+05	96.2	0.0	0.0
5	16.183	0.062	0.157	277.42	7.93e-02	1.472e+04	4.2	1968.90	0.6	0.0	0.0
6	20.109	0.050	0.145	8.449e+04	24.1	37.31	1.07e-02	1407.94	0.4	0.0	0.0
7	25.655	0.039	0.135	2.20	6.29e-04	2.578e+04	7.4	11.23	3.21e-03	0.0	0.0
8	27.142	0.037	0.133	0.81	2.31e-04	798.64	0.2	3.48	9.94e-04	0.0	0.0
9	29.868	0.033	0.130	1.76	5.02e-04	1.239e+04	3.5	0.31	8.99e-05	0.0	0.0
Risulta				3.483e+05		3.458e+05		3.459e+05			
In percentuale				99.52		98.78		98.81			

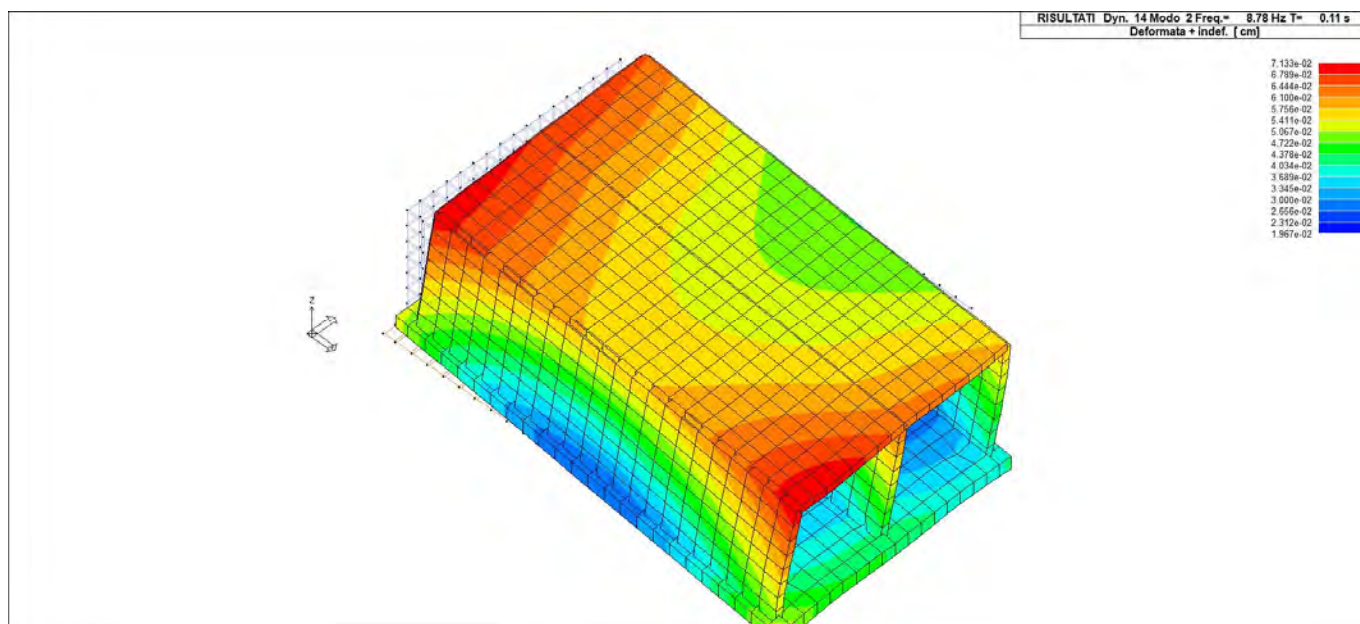


Figura 46 - RIS_MODALX_002_CDCEd dinamico SLU alfa00 ecc +

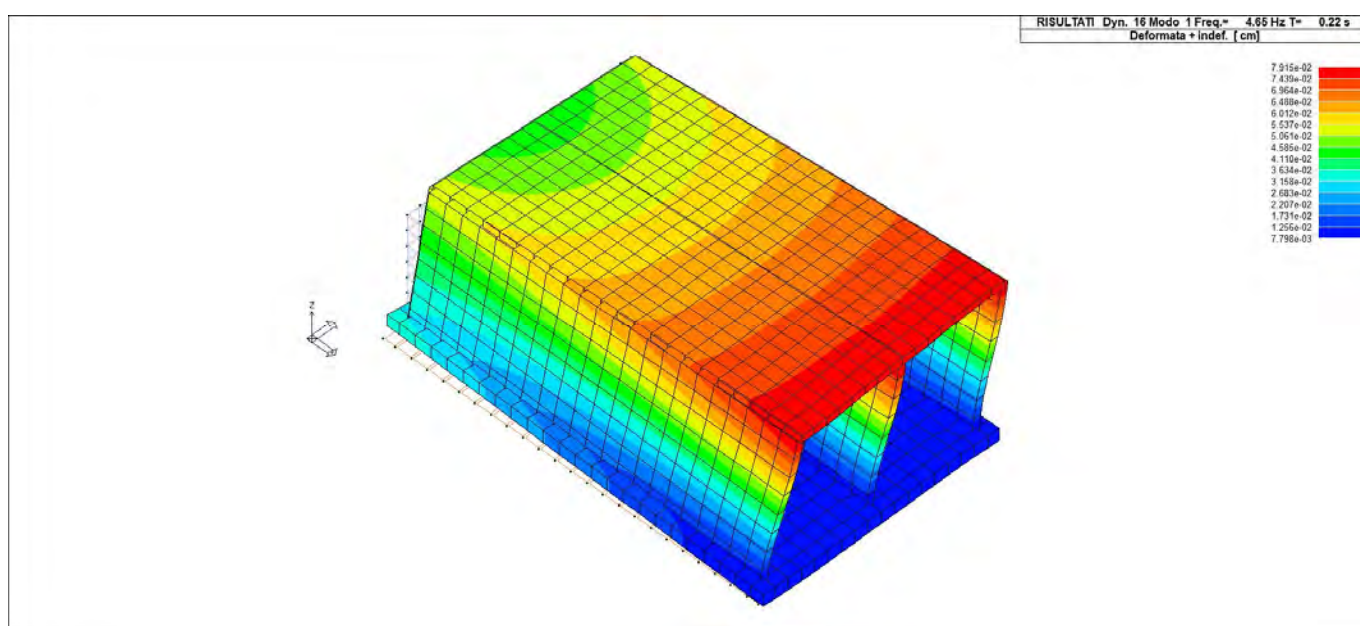


Figura 47 - RIS_MODALY_001_CDCEd dinamico SLU alfa9000 ecc +

13 RISULTATI NODALI

13.1 LEGENDA RISULTATI NODALI

Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
1	70	-0.36	-0.22	-0.35	1.33e-04	-1.52e-04	-1.82e-05
1	126	-0.36	-0.23	-0.37	1.80e-04	-1.64e-04	-1.72e-05
1	134	-0.22	-0.15	-0.38	1.94e-04	-1.56e-04	-1.06e-05
1	172	-0.24	-0.14	-0.26	9.69e-05	-1.11e-04	-1.25e-05
1	200	-0.24	-0.15	-0.28	1.28e-04	-1.19e-04	-1.19e-05
1	204	-0.15	-0.10	-0.28	1.38e-04	-1.14e-04	-7.50e-06
1	210	-0.12	-0.07	-0.25	8.13e-05	-9.39e-05	-8.00e-06
1	215	-4.15e-03	-4.33e-04	-0.24	6.71e-05	-7.90e-05	-3.08e-06
1	222	-0.06	0.04	-0.25	-8.76e-05	-1.55e-04	-3.08e-05
1	239	-0.01	-0.07	-0.52	6.57e-04	-3.14e-04	1.63e-05
1	241	0.02	-0.09	-0.46	6.32e-04	-2.23e-04	3.17e-05
1	254	-0.05	0.03	-0.25	-4.97e-05	-1.32e-04	-2.29e-05
1	271	-8.56e-03	-0.05	-0.45	5.12e-04	-2.55e-04	9.96e-06
1	273	0.02	-0.07	-0.41	4.93e-04	-1.89e-04	2.19e-05
1	286	-0.04	0.02	-0.24	-1.96e-05	-1.17e-04	-1.76e-05
1	303	-7.29e-03	-0.04	-0.40	3.97e-04	-2.09e-04	6.47e-06
1	305	0.01	-0.05	-0.37	3.83e-04	-1.61e-04	1.53e-05
2	54	-0.22	-5.28e-03	-0.33	2.81e-05	-1.55e-04	3.49e-06
2	70	-0.36	-7.77e-03	-0.33	2.68e-05	-1.88e-04	6.14e-06
2	134	-0.22	-0.02	-0.32	1.00e-04	-1.52e-04	5.21e-06
2	164	-0.15	-3.64e-03	-0.25	2.12e-05	-1.14e-04	2.29e-06
2	172	-0.24	-5.30e-03	-0.25	2.03e-05	-1.36e-04	4.05e-06
2	204	-0.15	-0.02	-0.24	6.94e-05	-1.11e-04	3.43e-06
2	210	-0.12	-3.16e-03	-0.23	2.00e-05	-1.06e-04	1.89e-06
2	214	-3.31e-03	-3.34e-03	-0.23	3.02e-05	-7.80e-05	0.0
2	215	-3.31e-03	-1.06e-03	-0.23	2.04e-05	-7.79e-05	0.0
2	226	-0.05	0.01	-0.32	-1.53e-04	-2.00e-04	5.30e-06
2	227	-0.05	-0.03	-0.32	1.75e-04	-2.04e-04	1.64e-05
2	241	0.01	-0.09	-0.21	5.45e-04	-4.83e-05	3.17e-05
2	250	-0.04	0.03	-0.29	-9.26e-05	-1.64e-04	-1.71e-05
2	259	-0.04	-0.02	-0.29	1.37e-04	-1.68e-04	1.14e-05
2	273	7.71e-03	-0.07	-0.21	4.16e-04	-5.70e-05	2.25e-05
2	282	-0.03	0.02	-0.27	-6.35e-05	-1.40e-04	-1.25e-05
2	291	-0.03	-0.02	-0.28	1.07e-04	-1.43e-04	8.24e-06
2	305	4.69e-03	-0.05	-0.22	3.14e-04	-6.28e-05	1.65e-05
3	69	0.03	-0.02	-0.38	3.47e-05	-5.11e-05	-1.68e-06
3	70	-0.24	-0.02	-0.05	3.29e-05	-8.56e-05	1.38e-06
3	134	-0.16	-0.08	-0.15	1.10e-04	-7.38e-05	-2.26e-05
3	171	0.01	-0.01	-0.28	2.61e-05	-4.04e-05	-1.22e-06
3	172	-0.17	-0.02	-0.06	2.49e-05	-6.34e-05	0.0
3	204	-0.11	-0.06	-0.12	7.61e-05	-5.55e-05	-1.51e-05
3	209	-5.93e-03	-0.01	-0.24	2.48e-05	-4.33e-05	0.0

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
3	210	-0.10	-0.01	-0.13	2.43e-05	-5.48e-05	0.0
3	214	-0.03	-0.02	-0.21	3.49e-05	-4.61e-05	-3.78e-06
3	215	-0.03	-0.01	-0.21	2.47e-05	-4.60e-05	0.0
3	227	-0.14	-0.13	-0.27	1.68e-04	-1.58e-04	-5.11e-05
3	235	-0.06	-0.45	-0.23	5.39e-04	-8.41e-05	-2.22e-04
3	259	-0.11	-0.10	-0.25	1.33e-04	-1.26e-04	-3.92e-05
3	267	-0.05	-0.34	-0.23	4.12e-04	-7.35e-05	-1.67e-04
3	291	-0.08	-0.08	-0.24	1.05e-04	-1.04e-04	-2.94e-05
3	299	-0.05	-0.26	-0.22	3.12e-04	-6.60e-05	-1.24e-04
4	44	0.34	-0.22	-0.22	2.36e-04	6.13e-05	1.06e-05
4	118	0.20	-0.14	-0.28	3.30e-04	-2.76e-05	7.26e-06
4	126	0.34	-0.23	-0.27	3.29e-04	2.40e-05	1.38e-05
4	158	0.23	-0.15	-0.20	2.29e-04	1.70e-05	5.14e-06
4	196	0.13	-0.09	-0.20	2.45e-04	-2.73e-05	4.11e-06
4	200	0.23	-0.15	-0.20	2.45e-04	7.11e-06	8.45e-06
4	210	0.11	-0.07	-0.18	2.15e-04	-2.76e-05	0.0
4	215	-2.91e-03	-1.31e-03	-0.17	2.07e-04	-7.05e-05	-5.74e-06
4	221	0.06	-0.01	-0.27	3.89e-04	5.22e-06	2.33e-05
4	222	-0.06	7.97e-03	-0.08	2.62e-05	-1.46e-04	-3.48e-05
4	235	-0.01	-0.08	-0.17	4.05e-04	-2.57e-04	1.89e-05
4	253	0.04	-8.58e-03	-0.24	3.39e-04	-1.75e-05	1.55e-05
4	254	-0.05	5.96e-03	-0.11	7.54e-05	-1.23e-04	-2.70e-05
4	267	-8.70e-03	-0.06	-0.17	3.57e-04	-2.10e-04	1.24e-05
4	285	0.03	-6.81e-03	-0.22	3.04e-04	-3.27e-05	9.83e-06
4	286	-0.03	4.19e-03	-0.12	1.11e-04	-1.08e-04	-2.13e-05
4	299	-7.02e-03	-0.05	-0.17	3.19e-04	-1.73e-04	7.76e-06
5	26	0.20	-3.83e-03	-0.23	1.85e-06	2.37e-05	1.67e-06
5	44	0.34	-4.76e-03	-0.18	7.85e-06	1.10e-04	1.25e-06
5	134	0.20	-0.02	-0.23	7.55e-06	2.06e-05	9.43e-06
5	150	0.14	-2.71e-03	-0.17	0.0	8.03e-06	1.24e-06
5	158	0.23	-3.60e-03	-0.17	4.23e-06	5.31e-05	1.21e-06
5	204	0.13	-0.01	-0.17	4.74e-06	6.01e-06	6.42e-06
5	207	-2.75e-03	-1.60e-03	-0.16	3.81e-06	-5.98e-05	1.07e-06
5	210	0.11	-2.42e-03	-0.16	0.0	-5.02e-06	1.11e-06
5	214	-2.76e-03	-3.21e-03	-0.15	-2.41e-06	-6.00e-05	2.17e-06
5	215	-2.76e-03	-1.28e-03	-0.15	-3.14e-06	-6.00e-05	1.12e-06
5	224	0.05	0.02	-0.23	-2.73e-05	5.03e-05	-1.68e-05
5	226	-0.05	0.03	-0.08	0.0	-1.68e-04	2.93e-06
5	235	-0.02	-0.08	-0.13	2.95e-05	-9.65e-05	2.31e-05
5	250	-0.04	9.92e-03	-0.10	-1.85e-05	-1.37e-04	-1.62e-05
5	256	0.03	0.01	-0.21	-2.05e-05	1.92e-05	-1.18e-05
5	267	-0.01	-0.06	-0.14	2.05e-05	-8.63e-05	1.71e-05
5	282	-0.03	7.13e-03	-0.12	-1.44e-05	-1.16e-04	-1.16e-05
5	288	0.02	8.76e-03	-0.19	-1.58e-05	-2.59e-06	-8.31e-06
5	299	-0.01	-0.05	-0.14	1.44e-05	-7.91e-05	1.30e-05
6	69	-0.01	-0.02	-0.37	3.67e-05	-5.56e-05	-1.80e-06
6	70	-0.11	-0.02	-0.03	3.49e-05	-7.42e-05	1.16e-06
6	134	-0.08	-0.09	-0.13	1.11e-04	-6.73e-05	-2.20e-05
6	171	-0.01	-0.01	-0.27	2.75e-05	-4.32e-05	-1.30e-06
6	172	-0.08	-0.02	-0.04	2.64e-05	-5.56e-05	0.0
6	204	-0.06	-0.06	-0.11	7.69e-05	-5.10e-05	-1.48e-05
6	209	-0.02	-0.01	-0.23	2.62e-05	-4.45e-05	-1.04e-06
6	210	-0.05	-0.01	-0.12	2.57e-05	-5.07e-05	0.0
6	214	-0.03	-0.02	-0.20	3.61e-05	-4.61e-05	-3.78e-06
6	215	-0.03	-0.01	-0.20	2.61e-05	-4.60e-05	0.0
6	227	-0.14	-0.15	-0.22	1.54e-04	-1.55e-04	-4.94e-05
6	231	-0.14	-0.15	-0.22	1.52e-04	-1.55e-04	-3.55e-05
6	235	-0.06	-0.51	-0.21	4.93e-04	-8.26e-05	-2.17e-04
6	259	-0.11	-0.12	-0.22	1.23e-04	-1.24e-04	-3.79e-05
6	263	-0.11	-0.11	-0.22	1.21e-04	-1.24e-04	-2.74e-05
6	267	-0.05	-0.39	-0.21	3.78e-04	-7.24e-05	-1.63e-04
6	291	-0.08	-0.09	-0.21	9.80e-05	-1.03e-04	-2.85e-05
6	295	-0.08	-0.09	-0.21	9.68e-05	-1.03e-04	-2.07e-05
6	299	-0.05	-0.29	-0.21	2.87e-04	-6.52e-05	-1.21e-04
7	125	0.07	0.02	-0.43	6.52e-05	-5.40e-05	-1.57e-05
7	126	-0.40	-0.27	-0.11	7.23e-05	-6.00e-05	-5.24e-06
7	199	0.05	0.01	-0.32	4.58e-05	-4.05e-05	-1.02e-05
7	200	-0.27	-0.18	-0.11	5.05e-05	-4.46e-05	-3.16e-06
7	209	0.01	9.90e-03	-0.27	1.73e-05	-3.29e-05	0.0
7	210	-0.15	-0.09	-0.16	1.97e-05	-3.49e-05	4.42e-06

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
7	215	-0.03	-0.01	-0.24	1.79e-05	-3.34e-05	1.76e-06
7	219	-0.17	-0.10	-0.40	2.01e-04	-2.00e-04	-8.15e-05
7	239	-0.15	-0.38	-0.52	5.74e-04	-2.41e-04	-2.07e-04
7	241	-0.07	-0.40	-0.46	5.56e-04	-1.62e-04	-1.65e-04
7	251	-0.13	-0.08	-0.36	1.56e-04	-1.54e-04	-6.02e-05
7	271	-0.12	-0.29	-0.45	4.37e-04	-1.89e-04	-1.55e-04
7	273	-0.06	-0.30	-0.41	4.23e-04	-1.32e-04	-1.24e-04
7	283	-0.10	-0.06	-0.33	1.20e-04	-1.22e-04	-4.40e-05
7	303	-0.10	-0.22	-0.40	3.29e-04	-1.48e-04	-1.15e-04
7	305	-0.05	-0.23	-0.37	3.19e-04	-1.07e-04	-9.14e-05
8	69	0.08	-0.02	-0.40	3.09e-05	-4.16e-05	-1.91e-06
8	70	-0.41	-0.02	-0.08	2.83e-05	-7.60e-05	0.0
8	134	-0.26	-0.08	-0.17	1.02e-04	-6.48e-05	-2.22e-05
8	171	0.05	-0.01	-0.29	2.32e-05	-3.33e-05	-1.39e-06
8	172	-0.27	-0.02	-0.08	2.15e-05	-5.62e-05	0.0
8	204	-0.17	-0.05	-0.14	7.07e-05	-4.87e-05	-1.49e-05
8	209	0.01	-0.01	-0.26	2.21e-05	-3.67e-05	-1.13e-06
8	210	-0.15	-0.01	-0.15	2.12e-05	-4.82e-05	0.0
8	214	-0.03	-0.02	-0.23	3.16e-05	-3.95e-05	-3.88e-06
8	215	-0.03	-0.01	-0.23	2.19e-05	-3.94e-05	0.0
8	227	-0.14	-0.13	-0.32	1.78e-04	-1.51e-04	-4.97e-05
8	241	2.84e-03	-0.39	-0.21	5.55e-04	-1.11e-05	-1.61e-04
8	259	-0.11	-0.10	-0.29	1.39e-04	-1.20e-04	-3.82e-05
8	273	-5.74e-03	-0.30	-0.22	4.23e-04	-1.93e-05	-1.22e-04
8	291	-0.08	-0.08	-0.28	1.09e-04	-9.75e-05	-2.87e-05
8	305	-0.01	-0.23	-0.22	3.20e-04	-2.49e-05	-9.05e-05
9	69	0.04	-0.02	-0.39	3.39e-05	-4.90e-05	-1.65e-06
9	70	-0.28	-0.02	-0.05	3.20e-05	-8.72e-05	1.41e-06
9	134	-0.18	-0.08	-0.15	1.08e-04	-7.43e-05	-2.27e-05
9	171	0.02	-0.01	-0.28	2.54e-05	-3.89e-05	-1.19e-06
9	172	-0.19	-0.02	-0.06	2.42e-05	-6.44e-05	0.0
9	204	-0.12	-0.06	-0.13	7.51e-05	-5.58e-05	-1.52e-05
9	209	-2.56e-03	-0.01	-0.24	2.43e-05	-4.22e-05	0.0
9	210	-0.11	-0.01	-0.13	2.37e-05	-5.50e-05	0.0
9	214	-0.03	-0.02	-0.22	3.42e-05	-4.53e-05	-3.78e-06
9	215	-0.03	-0.01	-0.22	2.41e-05	-4.52e-05	0.0
9	227	-0.14	-0.13	-0.28	1.70e-04	-1.58e-04	-5.16e-05
9	243	-0.06	-0.44	-0.24	5.34e-04	-8.33e-05	-1.79e-04
9	259	-0.11	-0.10	-0.26	1.34e-04	-1.26e-04	-3.95e-05
9	275	-0.05	-0.33	-0.23	4.08e-04	-7.26e-05	-1.35e-04
9	291	-0.08	-0.08	-0.25	1.06e-04	-1.04e-04	-2.97e-05
9	307	-0.05	-0.25	-0.23	3.09e-04	-6.52e-05	-1.00e-04
10	100	0.33	-0.18	0.04	-1.39e-04	-1.77e-05	1.69e-05
10	125	-0.15	-4.81e-03	-0.33	-1.72e-04	-7.24e-05	-2.68e-05
10	126	0.31	-0.29	-0.02	-1.43e-04	-5.63e-05	-1.48e-05
10	186	0.21	-0.12	-0.03	-1.42e-04	-2.62e-05	9.05e-06
10	199	-0.10	-4.87e-03	-0.24	-1.29e-04	-5.38e-05	-1.85e-05
10	200	0.20	-0.19	-0.03	-1.10e-04	-4.31e-05	-1.04e-05
10	209	-0.06	8.69e-03	-0.20	-1.39e-04	-4.39e-05	-7.09e-06
10	210	0.09	-0.09	-0.10	-1.30e-04	-3.85e-05	-3.07e-06
10	215	-0.03	-0.01	-0.18	-1.37e-04	-4.26e-05	-6.13e-06
10	219	-0.17	-0.24	-0.10	1.18e-04	-2.20e-04	-9.58e-05
10	221	0.07	-0.18	-0.27	-2.90e-05	2.84e-05	-3.55e-05
10	235	-0.15	-0.69	-0.17	4.96e-04	-2.66e-04	-2.35e-04
10	251	-0.13	-0.18	-0.12	4.77e-05	-1.72e-04	-7.28e-05
10	253	0.04	-0.14	-0.25	-4.87e-05	6.42e-06	-2.91e-05
10	267	-0.12	-0.52	-0.17	3.36e-04	-2.10e-04	-1.78e-04
10	283	-0.10	-0.14	-0.14	0.0	-1.37e-04	-5.54e-05
10	285	0.02	-0.10	-0.23	-7.10e-05	-7.74e-06	-2.35e-05
10	299	-0.10	-0.39	-0.17	2.14e-04	-1.66e-04	-1.34e-04
11	41	-0.14	-0.02	-0.32	3.86e-05	-7.56e-05	-1.90e-06
11	44	0.33	-0.02	0.08	2.67e-05	-5.26e-05	1.25e-06
11	134	0.17	-0.11	-0.08	9.50e-05	-7.65e-05	-2.64e-05
11	157	-0.10	-0.01	-0.23	2.89e-05	-5.79e-05	-1.41e-06
11	158	0.21	-0.02	-2.10e-03	2.69e-05	-5.55e-05	0.0
11	204	0.11	-0.07	-0.07	6.65e-05	-5.85e-05	-1.77e-05
11	209	-0.06	-0.01	-0.19	2.73e-05	-5.98e-05	-1.27e-06
11	210	0.09	-0.01	-0.07	2.63e-05	-5.85e-05	0.0
11	214	-0.03	-0.03	-0.16	3.49e-05	-5.95e-05	-4.56e-06
11	215	-0.03	-0.01	-0.16	2.71e-05	-5.95e-05	-1.05e-06

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
11	224	0.08	0.17	-0.24	-4.69e-05	5.28e-05	5.44e-05
11	227	-0.14	-0.20	-0.09	1.01e-04	-1.72e-04	-5.65e-05
11	235	-0.06	-0.69	-0.14	3.06e-04	-9.67e-05	-2.44e-04
11	256	0.05	0.13	-0.21	-2.85e-05	2.10e-05	4.12e-05
11	259	-0.11	-0.15	-0.11	8.26e-05	-1.40e-04	-4.33e-05
11	267	-0.05	-0.52	-0.14	2.35e-04	-8.63e-05	-1.84e-04
11	288	0.03	0.09	-0.20	-1.42e-05	-1.14e-06	3.05e-05
11	291	-0.08	-0.12	-0.12	6.84e-05	-1.18e-04	-3.26e-05
11	299	-0.05	-0.39	-0.15	1.82e-04	-7.90e-05	-1.37e-04
12	69	-0.02	-0.02	-0.36	3.69e-05	-5.66e-05	-1.80e-06
12	70	-0.08	-0.02	-0.02	3.52e-05	-7.11e-05	1.10e-06
12	134	-0.06	-0.09	-0.13	1.10e-04	-6.54e-05	-2.19e-05
12	171	-0.02	-0.01	-0.27	2.77e-05	-4.39e-05	-1.31e-06
12	172	-0.06	-0.02	-0.04	2.66e-05	-5.35e-05	0.0
12	204	-0.04	-0.06	-0.11	7.64e-05	-4.98e-05	-1.47e-05
12	209	-0.02	-0.01	-0.23	2.64e-05	-4.48e-05	-1.05e-06
12	210	-0.04	-0.01	-0.11	2.58e-05	-4.96e-05	0.0
12	214	-0.03	-0.02	-0.20	3.61e-05	-4.60e-05	-3.77e-06
12	215	-0.03	-0.01	-0.20	2.62e-05	-4.59e-05	0.0
12	227	-0.14	-0.16	-0.21	1.50e-04	-1.55e-04	-4.89e-05
12	231	-0.14	-0.15	-0.21	1.49e-04	-1.55e-04	-3.50e-05
12	235	-0.06	-0.52	-0.21	4.80e-04	-8.22e-05	-2.15e-04
12	259	-0.11	-0.12	-0.21	1.20e-04	-1.24e-04	-3.76e-05
12	263	-0.11	-0.12	-0.21	1.19e-04	-1.24e-04	-2.70e-05
12	267	-0.05	-0.40	-0.20	3.68e-04	-7.21e-05	-1.62e-04
12	291	-0.08	-0.09	-0.21	9.59e-05	-1.02e-04	-2.83e-05
12	295	-0.08	-0.09	-0.21	9.49e-05	-1.02e-04	-2.04e-05
12	299	-0.05	-0.30	-0.20	2.80e-04	-6.49e-05	-1.20e-04
13	70	-0.37	-0.22	-0.32	8.03e-05	-1.05e-04	-2.33e-05
13	126	-0.37	-0.24	-0.34	1.27e-04	-1.15e-04	-2.55e-05
13	133	0.06	0.01	-0.37	1.10e-04	-7.26e-05	-6.50e-06
13	172	-0.25	-0.15	-0.24	5.72e-05	-7.63e-05	-1.64e-05
13	200	-0.25	-0.16	-0.25	8.81e-05	-8.28e-05	-1.79e-05
13	203	0.04	9.58e-03	-0.28	7.73e-05	-5.45e-05	-5.18e-06
13	207	-7.72e-03	-3.55e-03	-0.25	3.55e-05	-4.61e-05	-6.32e-06
13	210	-0.13	-0.08	-0.24	4.34e-05	-6.05e-05	-1.19e-05
13	215	-7.74e-03	-2.87e-03	-0.24	3.03e-05	-4.63e-05	-6.40e-06
13	219	-0.08	-0.02	-0.40	2.16e-04	-2.21e-04	-1.76e-05
13	239	-0.04	-0.11	-0.52	5.94e-04	-2.54e-04	1.97e-05
13	241	0.02	-0.13	-0.46	5.80e-04	-1.68e-04	1.98e-05
13	251	-0.06	-0.01	-0.36	1.70e-04	-1.74e-04	-1.44e-05
13	271	-0.03	-0.08	-0.45	4.55e-04	-2.02e-04	1.22e-05
13	273	0.01	-0.10	-0.41	4.45e-04	-1.40e-04	1.18e-05
13	283	-0.04	-0.01	-0.33	1.34e-04	-1.39e-04	-1.21e-05
13	303	-0.03	-0.06	-0.40	3.46e-04	-1.61e-04	7.33e-06
13	305	6.35e-03	-0.07	-0.37	3.38e-04	-1.16e-04	6.98e-06
14	70	-0.34	-0.22	-0.31	1.03e-04	0.0	-4.36e-05
14	126	-0.34	-0.24	-0.33	1.53e-04	0.0	-4.64e-05
14	133	0.05	0.01	-0.37	1.27e-04	0.0	-3.99e-05
14	172	-0.23	-0.15	-0.24	7.31e-05	0.0	-3.25e-05
14	200	-0.23	-0.16	-0.25	1.07e-04	0.0	-3.44e-05
14	203	0.03	7.74e-03	-0.27	8.95e-05	0.0	-3.01e-05
14	207	-7.55e-03	-5.24e-03	-0.24	4.45e-05	0.0	-2.77e-05
14	210	-0.12	-0.08	-0.23	5.61e-05	0.0	-3.02e-05
14	215	-7.56e-03	-4.57e-03	-0.24	3.94e-05	0.0	-2.79e-05
14	219	-0.08	-0.02	-0.39	2.32e-04	0.0	-6.43e-05
14	239	-0.04	-0.11	-0.50	6.22e-04	0.0	-5.98e-05
14	241	0.02	-0.13	-0.45	6.09e-04	0.0	-2.98e-06
14	251	-0.06	-0.02	-0.35	1.84e-04	0.0	-5.42e-05
14	271	-0.03	-0.09	-0.44	4.79e-04	0.0	-5.12e-05
14	273	0.01	-0.10	-0.40	4.69e-04	0.0	-1.11e-05
14	283	-0.04	-0.01	-0.32	1.47e-04	0.0	-4.70e-05
14	303	-0.03	-0.07	-0.38	3.65e-04	0.0	-4.51e-05
14	305	6.49e-03	-0.08	-0.36	3.58e-04	0.0	-1.56e-05
15	70	-0.33	-0.22	-0.34	1.93e-04	-1.24e-04	-1.13e-05
15	126	-0.33	-0.23	-0.36	2.41e-04	-1.36e-04	-1.06e-05
15	134	-0.20	-0.15	-0.37	2.52e-04	-1.28e-04	-1.05e-05
15	172	-0.22	-0.14	-0.26	1.41e-04	-9.06e-05	-8.80e-06
15	200	-0.22	-0.15	-0.27	1.73e-04	-9.85e-05	-8.33e-06
15	204	-0.13	-0.10	-0.27	1.80e-04	-9.34e-05	-8.26e-06

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
15	207	-4.22e-03	-9.51e-04	-0.24	1.07e-04	-6.02e-05	-9.48e-06
15	210	-0.11	-0.07	-0.24	1.20e-04	-7.45e-05	-9.24e-06
15	215	-4.23e-03	-6.25e-04	-0.24	1.01e-04	-6.03e-05	-9.55e-06
15	222	-0.06	0.04	-0.24	-5.09e-05	-1.33e-04	-3.82e-05
15	239	-0.01	-0.07	-0.50	7.17e-04	-2.83e-04	9.39e-06
15	241	0.02	-0.09	-0.45	6.85e-04	-1.96e-04	2.50e-05
15	254	-0.05	0.03	-0.24	-1.41e-05	-1.11e-04	-3.01e-05
15	271	-8.62e-03	-0.05	-0.44	5.65e-04	-2.27e-04	3.21e-06
15	273	0.02	-0.07	-0.40	5.41e-04	-1.64e-04	1.53e-05
15	286	-0.04	0.02	-0.24	1.55e-05	-9.62e-05	-2.45e-05
15	303	-7.36e-03	-0.04	-0.38	4.46e-04	-1.83e-04	0.0
15	305	0.01	-0.05	-0.36	4.28e-04	-1.38e-04	8.76e-06
16	70	-0.38	-0.23	-0.29	5.02e-05	-7.83e-05	-2.51e-05
16	126	-0.38	-0.24	-0.30	9.63e-05	-8.75e-05	-3.30e-05
16	133	0.05	8.15e-03	-0.38	1.04e-04	-6.64e-05	-1.88e-05
16	172	-0.25	-0.15	-0.22	3.63e-05	-5.75e-05	-1.80e-05
16	200	-0.25	-0.16	-0.23	6.70e-05	-6.36e-05	-2.33e-05
16	203	0.03	4.91e-03	-0.28	7.22e-05	-4.96e-05	-1.38e-05
16	209	0.03	0.02	-0.25	2.10e-05	-3.75e-05	-8.49e-06
16	210	-0.13	-0.08	-0.22	2.94e-05	-4.81e-05	-1.50e-05
16	215	-0.01	-4.45e-03	-0.24	2.30e-05	-4.00e-05	-1.00e-05
16	219	-0.09	-0.03	-0.40	2.09e-04	-2.10e-04	-3.84e-05
16	239	-0.06	-0.15	-0.52	5.85e-04	-2.42e-04	-5.32e-05
16	241	-3.92e-03	-0.17	-0.46	5.70e-04	-1.58e-04	1.70e-05
16	251	-0.07	-0.02	-0.36	1.63e-04	-1.64e-04	-3.06e-05
16	271	-0.04	-0.11	-0.45	4.47e-04	-1.91e-04	-4.24e-05
16	273	-5.99e-03	-0.13	-0.41	4.35e-04	-1.30e-04	9.13e-06
16	283	-0.05	-0.02	-0.33	1.27e-04	-1.31e-04	-2.51e-05
16	303	-0.04	-0.08	-0.40	3.37e-04	-1.51e-04	-3.41e-05
16	305	-7.40e-03	-0.10	-0.37	3.29e-04	-1.07e-04	4.07e-06
17	70	-0.34	-0.23	-0.28	5.62e-05	0.0	-6.25e-05
17	126	-0.34	-0.25	-0.30	1.07e-04	0.0	-7.10e-05
17	133	0.05	4.86e-03	-0.37	1.13e-04	0.0	-6.05e-05
17	172	-0.23	-0.15	-0.22	4.04e-05	0.0	-4.63e-05
17	200	-0.23	-0.17	-0.23	7.44e-05	0.0	-5.20e-05
17	203	0.03	2.47e-03	-0.28	7.84e-05	0.0	-4.49e-05
17	209	0.02	0.02	-0.24	2.24e-05	0.0	-3.60e-05
17	210	-0.12	-0.08	-0.22	3.25e-05	0.0	-4.18e-05
17	215	-0.01	-6.43e-03	-0.24	2.48e-05	0.0	-3.74e-05
17	219	-0.09	-0.03	-0.39	2.22e-04	0.0	-8.17e-05
17	239	-0.06	-0.15	-0.50	6.15e-04	0.0	-9.72e-05
17	241	-3.73e-03	-0.17	-0.45	6.00e-04	0.0	-6.37e-05
17	251	-0.07	-0.03	-0.35	1.73e-04	0.0	-6.97e-05
17	271	-0.04	-0.12	-0.44	4.70e-04	0.0	-8.21e-05
17	273	-5.82e-03	-0.13	-0.40	4.58e-04	0.0	-5.69e-05
17	283	-0.05	-0.02	-0.32	1.35e-04	0.0	-6.10e-05
...							
1449	305	-2.35e-03	-0.05	-0.10	3.08e-04	4.68e-05	0.0
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-0.41	-0.69	-0.57	-1.48e-03	-7.12e-04	-2.70e-04
		0.37	0.55	0.08	1.66e-03	6.36e-04	2.32e-04

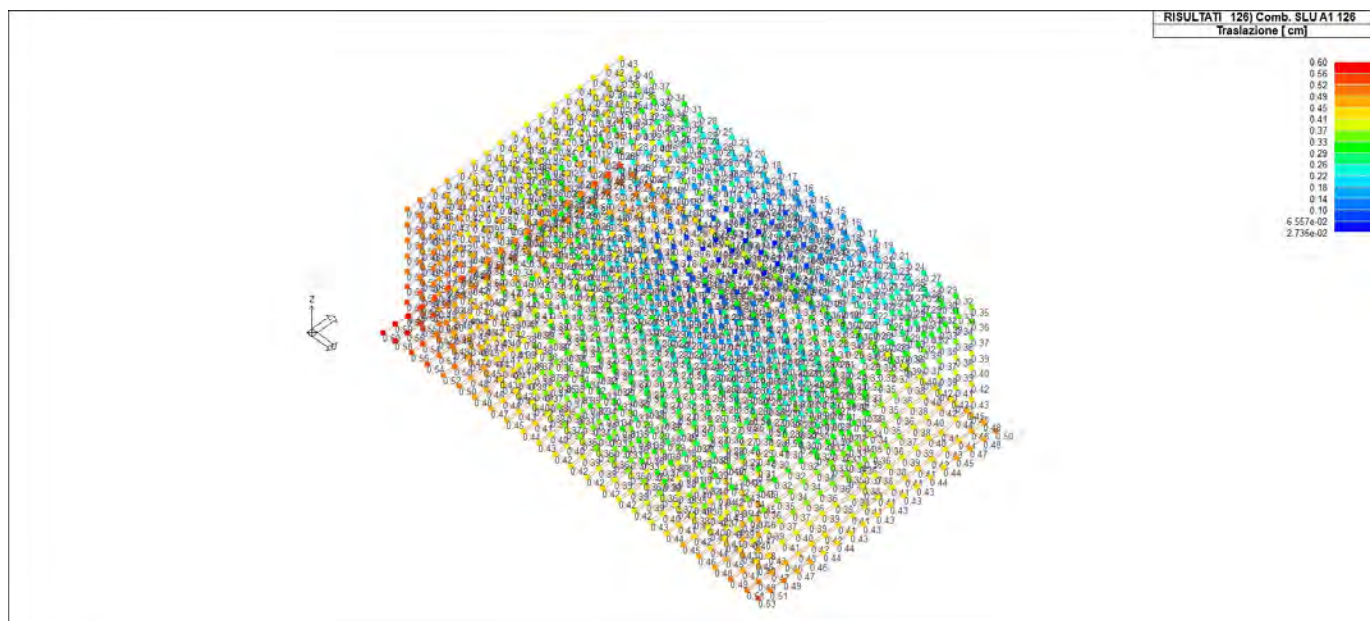


Figura 48 - RIS_SPOSTAMENTI_126_Comb SLU A1 126

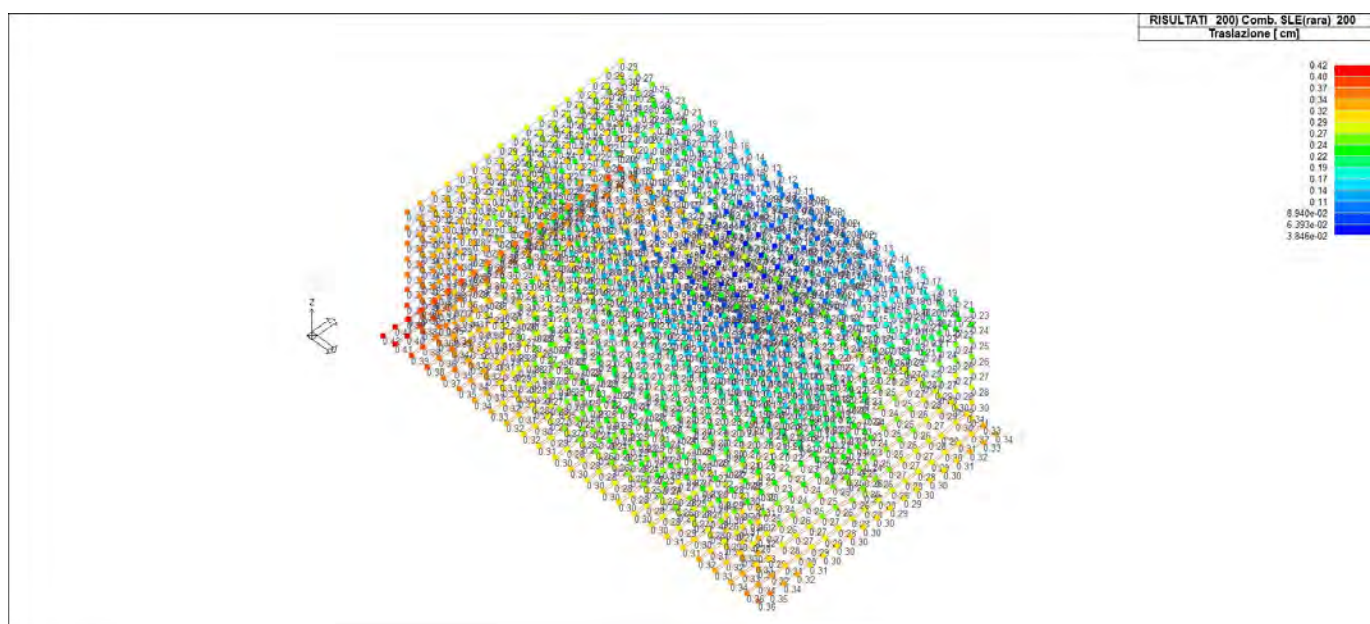


Figura 49 - RIS_SPOSTAMENTI_200_Comb SLErara 200

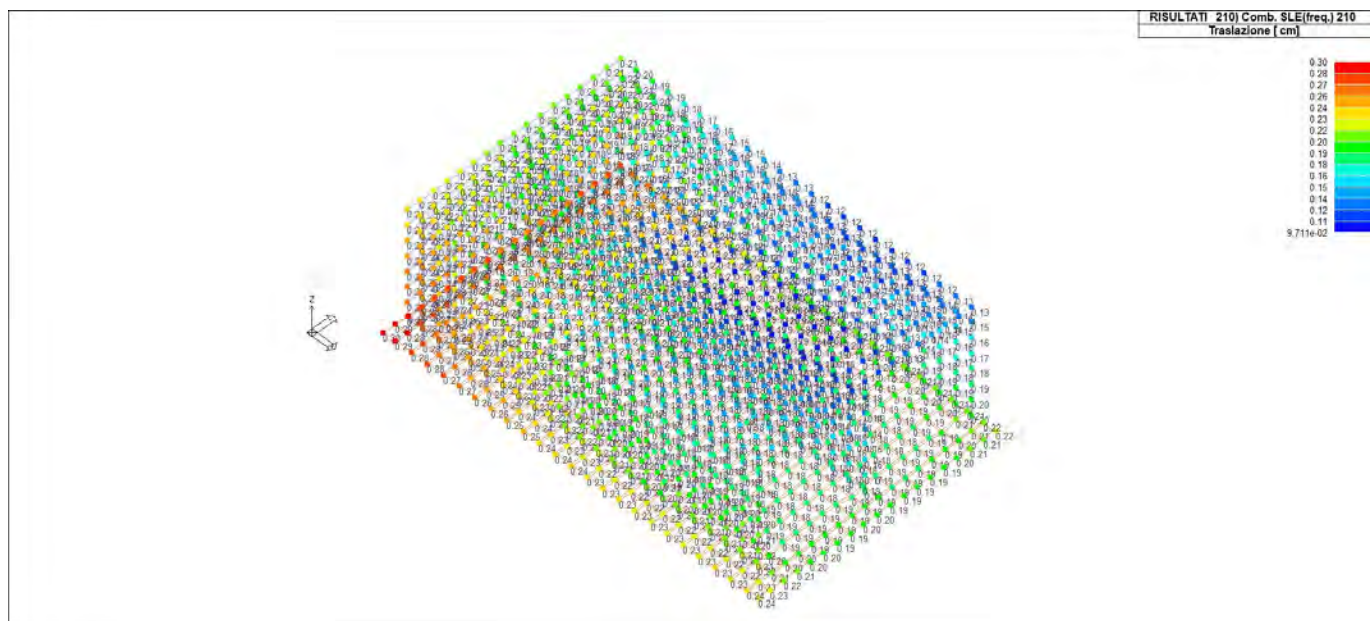


Figura 50 - RIS_SPOSTAMENTI_210_Comb SLEfreq 210

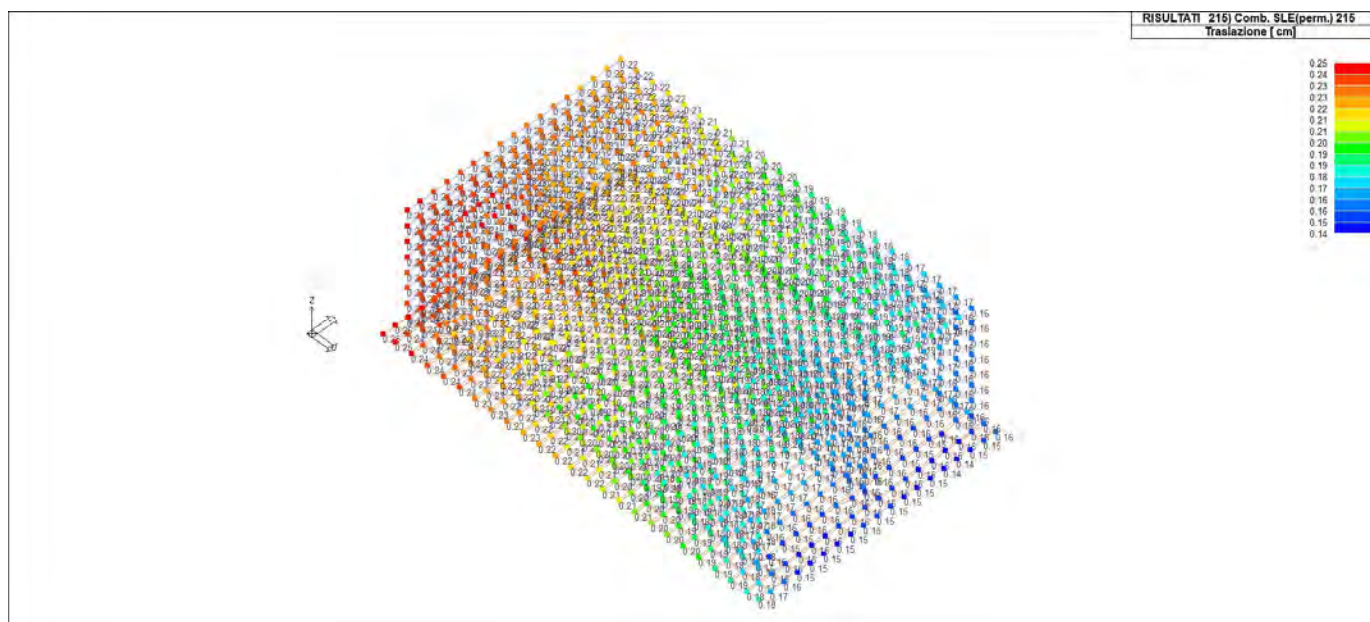


Figura 51 - RIS_SPOSTAMENTI_215_Comb SLEperm 215

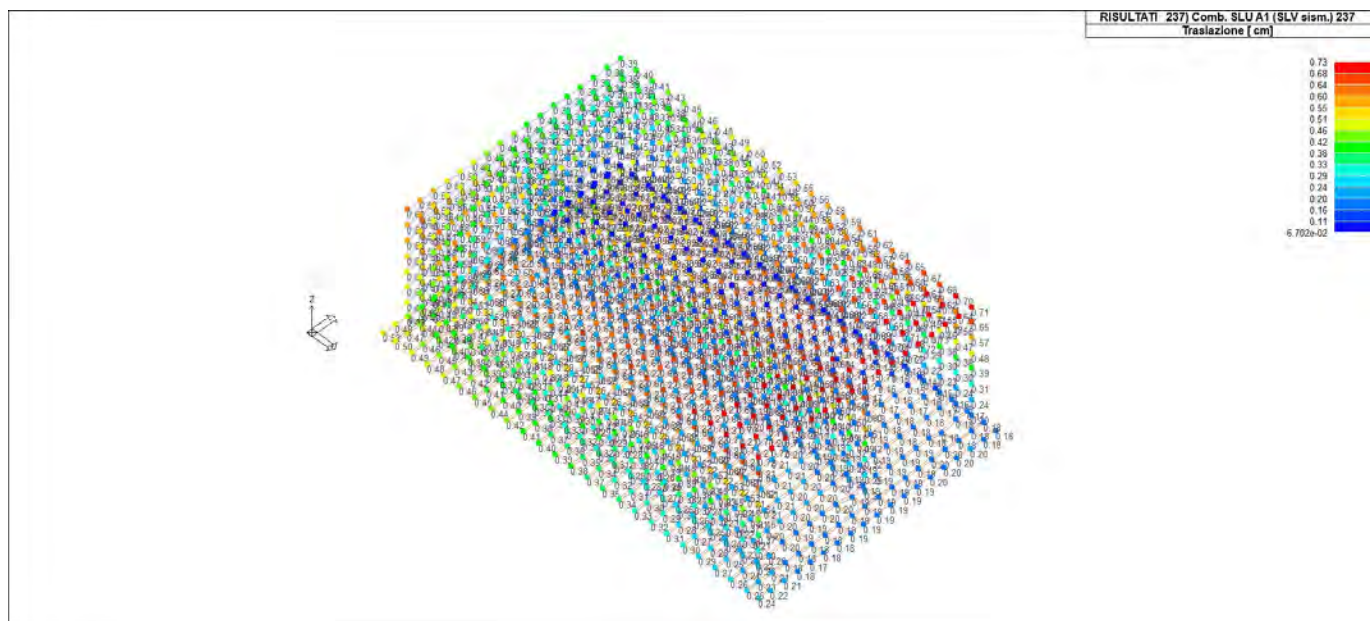


Figura 52 - RIS_SPOSTAMENTI_237_Comb SLU A1 SLV sism 237

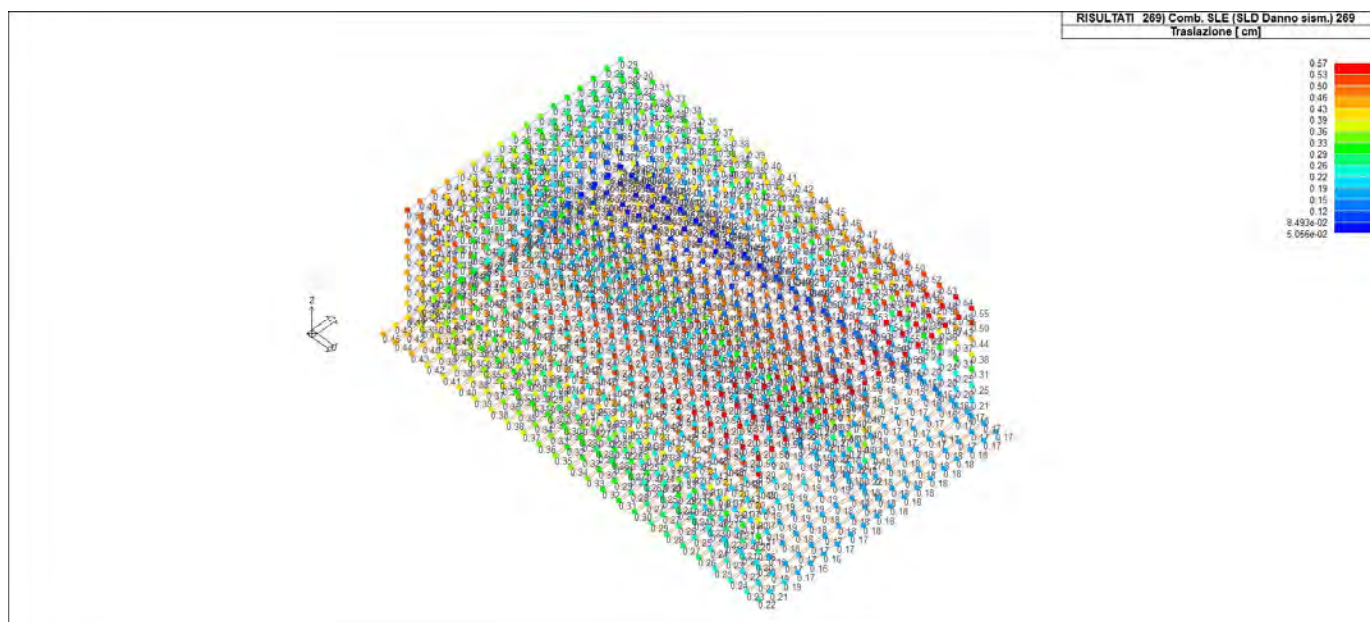


Figura 53 - RIS_SPOSTAMENTI_269_Comb SLE SLD Danno sism 269

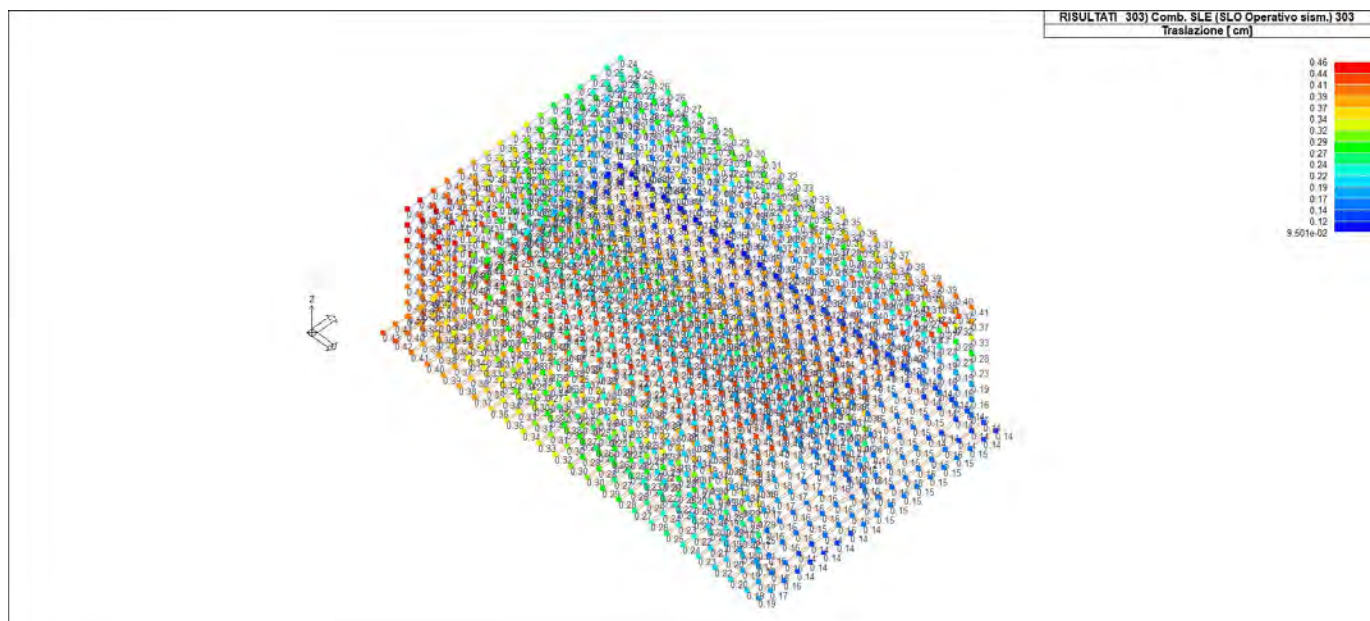


Figura 54 - RIS_SPOSTAMENTI_303_Comb SLE SLO Operativo sism 303

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		daN	daN	daN	daN cm	daN cm	daN cm
222	47	9790.39	184.11	-4.199e+04	2.944e+04	-7.787e+05	-9.08
222	54	-2.851e+04	-559.71	-5.743e+04	-2.572e+04	2.063e+06	416.25
222	72	-4.750e+04	-957.65	-4.342e+04	-6.285e+04	3.500e+06	603.82
222	105	9027.31	2090.81	-5.550e+04	1.234e+05	-7.433e+05	-506.10
222	159	6587.84	129.68	-4.134e+04	2.485e+04	-5.424e+05	17.02
222	164	-1.898e+04	-370.38	-4.299e+04	-1.526e+04	1.366e+06	285.41
222	172	-3.160e+04	-631.49	-4.230e+04	-3.667e+04	2.310e+06	425.62
222	189	6047.47	1396.63	-4.171e+04	8.418e+04	-5.051e+05	-329.49
222	206	166.99	19.06	-4.027e+04	1.553e+04	-6.722e+04	70.00
222	210	-1.562e+04	-306.48	-4.003e+04	-1.092e+04	1.114e+06	246.61
222	211	276.75	16.86	-3.977e+04	1.520e+04	-7.459e+04	71.10
222	213	168.68	270.25	-3.985e+04	2.707e+04	-6.713e+04	1.80
222	215	170.93	18.50	-3.986e+04	1.532e+04	-6.739e+04	69.10
222	217	6949.13	-3590.90	-2.672e+04	-1.261e+05	-5.054e+05	3025.18
222	224	6805.45	3215.67	-2.607e+04	1.615e+05	-4.884e+05	-2053.25
222	227	-6463.58	-3178.67	-5.364e+04	-1.309e+05	3.537e+05	2191.45
222	244	1970.79	8511.17	-3.494e+04	2.567e+05	-1.719e+05	-5840.35
222	249	4986.92	-2600.02	-3.045e+04	-8.308e+04	-3.774e+05	2167.20
222	256	4879.10	2350.87	-2.998e+04	1.183e+05	-3.648e+05	-1435.07
222	259	-4537.24	-2313.86	-4.974e+04	-8.764e+04	2.300e+05	1573.27
222	276	1447.74	6364.16	-3.631e+04	1.922e+05	-1.409e+05	-4291.42
222	281	3664.50	-1896.87	-3.305e+04	-5.549e+04	-2.924e+05	1596.44
222	288	3585.72	1728.45	-3.270e+04	8.977e+04	-2.832e+05	-1027.57
222	291	-3243.85	-1691.45	-4.702e+04	-5.912e+04	1.484e+05	1165.77
222	308	1095.91	4719.54	-3.728e+04	1.458e+05	-1.206e+05	-3156.56
289	44	-1.486e+04	-889.34	-3.746e+04	-6.441e+04	1.069e+06	143.09
289	53	2570.13	-62.17	-5.246e+04	-1392.25	-2.440e+05	-41.05
289	72	-1.558e+04	-886.55	-3.764e+04	-6.424e+04	1.119e+06	129.93
289	134	-9222.93	-2713.14	-5.002e+04	-1.728e+05	6.345e+05	353.18
289	158	-9909.47	-638.11	-3.701e+04	-4.544e+04	6.992e+05	92.80
289	163	1716.69	-57.08	-3.916e+04	-1763.20	-1.684e+05	-28.40
289	172	-1.039e+04	-636.25	-3.713e+04	-4.533e+04	7.325e+05	84.03
289	204	-6145.35	-1824.40	-3.753e+04	-1.160e+05	4.172e+05	234.43
289	206	-13.38	-138.27	-3.643e+04	-7802.10	-3.977e+04	-7.76
289	210	-5110.07	-381.97	-3.552e+04	-2.614e+04	3.395e+05	39.55
289	215	-8.85	-137.23	-3.602e+04	-7762.91	-4.013e+04	-7.90
289	217	6985.77	-3331.38	-3.130e+04	-1.711e+05	-5.073e+05	2624.08
289	228	6863.24	3283.12	-3.094e+04	2.006e+05	-4.936e+05	-2268.37
289	231	-6880.95	-3557.57	-4.109e+04	-2.161e+05	4.134e+05	2252.57
289	247	-1902.17	-8970.07	-3.799e+04	-4.487e+05	7.761e+04	3754.60

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
289	249	4962.59	-2502.77	-3.265e+04	-1.277e+05	-3.711e+05	1843.95
289	260	4870.98	2408.76	-3.239e+04	1.462e+05	-3.609e+05	-1629.97
289	263	-4888.69	-2683.21	-3.965e+04	-1.617e+05	2.807e+05	1614.18
289	279	-1353.86	-6773.92	-3.744e+04	-3.382e+05	4.305e+04	2702.36
289	281	3597.24	-1881.48	-3.358e+04	-9.594e+04	-2.803e+05	1337.84
289	292	3530.50	1743.30	-3.338e+04	1.057e+05	-2.729e+05	-1193.97
289	295	-3548.21	-2017.75	-3.865e+04	-1.212e+05	1.926e+05	1178.17
289	311	-983.61	-5059.62	-3.705e+04	-2.527e+05	2.012e+04	1991.05
350	25	-2622.33	-109.54	-4.810e+04	-6189.22	1.499e+05	-57.01
350	42	1.706e+04	-857.79	-4.438e+04	-6.083e+04	-1.335e+06	102.92
350	72	1.635e+04	-810.43	-3.350e+04	-5.785e+04	-1.273e+06	98.80
350	134	9963.15	-2756.54	-4.512e+04	-1.900e+05	-8.026e+05	128.91
350	149	-1744.75	-90.99	-3.578e+04	-5199.30	9.446e+04	-41.43
350	158	1.138e+04	-589.82	-3.330e+04	-4.162e+04	-8.956e+05	65.19
350	172	1.090e+04	-592.31	-3.317e+04	-4.179e+04	-8.625e+05	56.31
350	204	6645.57	-1855.65	-3.379e+04	-1.278e+05	-5.405e+05	82.52
350	207	16.77	-117.61	-3.290e+04	17.11	-4.054e+04	-22.09
350	210	5541.75	-368.79	-3.178e+04	-2.531e+04	-4.575e+05	15.96
350	214	18.09	-444.29	-3.248e+04	-2.958e+04	-4.081e+04	-17.03
350	215	17.36	-157.68	-3.247e+04	-9914.25	-4.072e+04	-28.84
350	217	7033.61	-2818.73	-3.616e+04	-1.808e+05	-5.109e+05	2738.74
350	221	7027.38	-2543.95	-3.616e+04	-1.569e+05	-5.102e+05	2679.75
350	222	-6992.67	2228.60	-2.878e+04	1.371e+05	4.287e+05	-2737.44
350	235	-1869.54	-9761.45	-3.163e+04	-6.095e+05	7.684e+04	1957.80
350	249	5005.11	-2158.86	-3.507e+04	-1.380e+05	-3.739e+05	1944.48
350	253	4999.79	-1952.76	-3.508e+04	-1.201e+05	-3.733e+05	1889.12
350	254	-4965.07	1637.41	-2.987e+04	1.003e+05	2.918e+05	-1946.81
350	267	-1321.86	-7386.27	-3.187e+04	-4.611e+05	4.219e+04	1379.97
350	281	3635.20	-1642.51	-3.436e+04	-1.049e+05	-2.825e+05	1409.06
350	285	3631.19	-1489.54	-3.436e+04	-9.162e+04	-2.820e+05	1366.80
350	286	-3596.47	1174.19	-3.058e+04	7.179e+04	2.006e+05	-1424.49
350	299	-952.63	-5522.82	-3.204e+04	-3.448e+05	1.928e+04	1017.12
403	25	-7993.90	-230.03	-4.282e+04	-2.179e+04	5.119e+05	41.02
403	42	4.891e+04	-758.82	-4.073e+04	-5.330e+04	-3.699e+06	166.35
403	72	4.809e+04	-697.51	-3.072e+04	-4.797e+04	-3.623e+06	141.92
403	134	2.928e+04	-2793.29	-4.065e+04	-2.061e+05	-2.249e+06	447.83
403	149	-5286.16	-178.26	-3.174e+04	-1.653e+04	3.304e+05	31.36
403	158	3.265e+04	-530.78	-3.035e+04	-3.754e+04	-2.477e+06	114.91
403	172	3.218e+04	-537.48	-2.996e+04	-3.796e+04	-2.445e+06	106.47
403	204	1.956e+04	-1887.09	-3.029e+04	-1.394e+05	-1.510e+06	302.57
403	207	369.07	-182.79	-2.889e+04	-8895.76	-8.831e+04	35.51
403	210	1.634e+04	-369.20	-2.821e+04	-2.719e+04	-1.271e+06	71.11
403	214	367.07	-513.44	-2.846e+04	-3.996e+04	-8.813e+04	79.80
403	215	366.16	-219.04	-2.846e+04	-1.819e+04	-8.803e+04	35.44
403	217	7326.45	-2399.17	-4.020e+04	-1.691e+05	-5.522e+05	2666.22
403	224	7202.42	2314.82	-4.036e+04	1.532e+05	-5.386e+05	-1831.07
403	227	-6470.11	-2752.91	-1.655e+04	-1.896e+05	3.625e+05	1901.96
403	235	-1503.76	-1.249e+04	-2.467e+04	-9.441e+05	2.776e+04	1593.13
403	249	5315.72	-1907.23	-3.685e+04	-1.357e+05	-4.171e+05	1900.16
403	256	5222.20	1722.19	-3.696e+04	1.140e+05	-4.069e+05	-1284.50
403	259	-4489.89	-2160.28	-1.996e+04	-1.504e+05	2.309e+05	1355.38
403	267	-961.36	-9434.32	-2.576e+04	-7.133e+05	-6342.53	1101.00
403	281	3956.18	-1488.66	-3.454e+04	-1.069e+05	-3.268e+05	1392.33
403	288	3887.92	1233.31	-3.462e+04	8.102e+04	-3.194e+05	-926.45
403	291	-3155.61	-1671.39	-2.230e+04	-1.174e+05	1.433e+05	997.33
403	299	-595.29	-7052.92	-2.650e+04	-5.336e+05	-2.892e+04	825.02
1116	100	-1.563e+04	-2.358e+04	-3.679e+04	-1.645e+06	1.134e+06	0.0
1116	108	-9587.68	-1.266e+04	-3.588e+04	-8.751e+05	6.903e+05	0.0
1116	117	2909.53	5212.24	-5.328e+04	5.504e+05	-2.740e+05	0.0
1116	128	-1.532e+04	-2.559e+04	-3.977e+04	-1.724e+06	1.093e+06	0.0
1116	186	-1.045e+04	-1.533e+04	-3.642e+04	-1.032e+06	7.456e+05	0.0
1116	190	-6423.66	-8047.53	-3.582e+04	-5.190e+05	4.496e+05	0.0
1116	195	1929.18	3621.83	-3.968e+04	3.909e+05	-1.869e+05	0.0
1116	200	-1.024e+04	-1.667e+04	-3.840e+04	-1.085e+06	7.182e+05	0.0
1116	207	-94.07	118.73	-3.633e+04	1.877e+05	-3.097e+04	0.0
1116	210	-5218.52	-7419.82	-3.551e+04	-4.346e+05	3.500e+05	0.0
1116	213	-127.21	1349.87	-3.525e+04	1.940e+05	-2.677e+04	0.0
1116	215	-92.04	1129.06	-3.558e+04	1.855e+05	-3.133e+04	0.0
1116	217	8489.76	-1987.61	-3.751e+04	3.395e+04	-6.586e+05	0.0
1116	222	-8663.17	4561.88	-3.366e+04	3.630e+05	5.884e+05	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 125 di 378

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
1116	236	-1238.80	6684.11	-1.471e+04	2.017e+05	2.301e+05	0.0
1116	239	1054.73	-4425.98	-5.644e+04	1.693e+05	-2.928e+05	0.0
1116	249	6038.68	-1162.83	-3.719e+04	7.678e+04	-4.802e+05	0.0
1116	254	-6215.26	3660.55	-3.398e+04	3.139e+05	4.118e+05	0.0
1116	268	-968.21	5295.87	-1.991e+04	1.962e+05	1.651e+05	0.0
1116	271	784.13	-3037.74	-5.124e+04	1.748e+05	-2.278e+05	0.0
1116	281	4363.03	-556.55	-3.682e+04	1.063e+05	-3.582e+05	0.0
1116	286	-4541.41	2992.45	-3.434e+04	2.794e+05	2.913e+05	0.0
1116	300	-759.80	4220.01	-2.397e+04	1.934e+05	1.154e+05	0.0
1116	303	575.72	-1961.88	-4.719e+04	1.776e+05	-1.781e+05	0.0
1165	42	1.668e+04	-2.417e+04	-4.598e+04	-1.619e+06	-1.281e+06	0.0
1165	108	9500.77	-1.253e+04	-3.393e+04	-8.486e+05	-7.280e+05	0.0
1165	117	-3000.26	5082.54	-4.857e+04	5.277e+05	1.683e+05	0.0
1165	128	1.636e+04	-2.564e+04	-3.603e+04	-1.740e+06	-1.255e+06	0.0
1165	158	1.111e+04	-1.597e+04	-3.440e+04	-1.056e+06	-8.583e+05	0.0
1165	190	6313.11	-7964.03	-3.346e+04	-5.018e+05	-4.961e+05	0.0
1165	195	-2007.38	3534.01	-3.613e+04	3.757e+05	1.079e+05	0.0
1165	200	1.088e+04	-1.670e+04	-3.486e+04	-1.096e+06	-8.477e+05	0.0
1165	207	-58.41	1099.65	-3.320e+04	1.856e+05	-3.196e+04	0.0
1165	210	5368.78	-7416.83	-3.239e+04	-4.348e+05	-4.344e+05	0.0
1165	213	-87.22	1348.31	-3.226e+04	1.956e+05	-2.832e+04	0.0
1165	215	-59.00	1110.86	-3.244e+04	1.835e+05	-3.201e+04	0.0
1165	217	8465.87	-491.86	-3.982e+04	1.733e+05	-6.508e+05	0.0
1165	232	-670.91	9573.51	-2.367e+04	6.095e+05	1.737e+05	0.0
1165	241	4886.71	-5852.94	-4.460e+04	-8.775e+04	-4.987e+05	0.0
1165	242	-5004.71	8074.65	-2.029e+04	4.548e+05	4.347e+05	0.0
1165	249	6031.96	-115.85	-3.781e+04	1.730e+05	-4.746e+05	0.0
1165	264	-547.54	7473.87	-2.579e+04	5.030e+05	1.236e+05	0.0
1165	273	3497.79	-4139.01	-4.153e+04	-2.155e+04	-3.703e+05	0.0
1165	274	-3615.79	6360.72	-2.335e+04	3.886e+05	3.063e+05	0.0
1165	281	4366.89	193.95	-3.637e+04	1.747e+05	-3.543e+05	0.0
1165	296	-445.27	5831.62	-2.749e+04	4.204e+05	8.495e+04	0.0
1165	305	2547.14	-2787.58	-3.917e+04	3.101e+04	-2.808e+05	0.0
1165	306	-2665.14	5009.29	-2.571e+04	3.360e+05	2.167e+05	0.0
1207	34	2.958e+04	-1.371e+04	-4.375e+04	-8.445e+05	-2.260e+06	0.0
1207	42	4.850e+04	-2.392e+04	-4.285e+04	-1.600e+06	-3.640e+06	0.0
1207	99	-1.438e+04	1.034e+04	-3.040e+04	8.556e+05	9.791e+05	0.0
1207	128	4.800e+04	-2.553e+04	-3.333e+04	-1.746e+06	-3.589e+06	0.0
1207	154	1.978e+04	-8976.98	-3.238e+04	-5.368e+05	-1.520e+06	0.0
1207	158	3.239e+04	-1.579e+04	-3.178e+04	-1.040e+06	-2.440e+06	0.0
1207	185	-9423.95	7329.97	-2.970e+04	6.418e+05	6.152e+05	0.0
1207	200	3.216e+04	-1.659e+04	-3.166e+04	-1.093e+06	-2.430e+06	0.0
1207	207	500.24	1246.36	-2.905e+04	2.091e+05	-1.128e+05	0.0
1207	209	-4439.84	3913.70	-2.810e+04	4.009e+05	2.483e+05	0.0
1207	210	1.627e+04	-7269.95	-2.895e+04	-4.175e+05	-1.263e+06	0.0
1207	215	490.78	1250.92	-2.830e+04	2.060e+05	-1.116e+05	0.0
1207	217	9049.93	214.01	-4.119e+04	2.285e+05	-7.380e+05	0.0
1207	221	8947.14	1102.31	-4.160e+04	3.072e+05	-7.220e+05	0.0
1207	222	-7965.59	1399.54	-1.501e+04	1.049e+05	4.989e+05	0.0
1207	232	-179.79	1.312e+04	-3.015e+04	1.072e+06	1.004e+05	0.0
1207	249	6609.66	385.06	-3.751e+04	2.132e+05	-5.601e+05	0.0
1207	253	6527.97	1055.54	-3.783e+04	2.726e+05	-5.477e+05	0.0
1207	254	-5546.42	1446.31	-1.878e+04	1.395e+05	3.245e+05	0.0
1207	264	-45.02	1.016e+04	-2.969e+04	8.552e+05	4.914e+04	0.0
1207	281	4937.11	580.91	-3.498e+04	2.083e+05	-4.381e+05	0.0
1207	285	4876.00	1078.66	-3.522e+04	2.523e+05	-4.288e+05	0.0
1207	286	-3894.45	1423.19	-2.139e+04	1.597e+05	2.057e+05	0.0
1207	296	69.11	7852.29	-2.929e+04	6.869e+05	9203.39	0.0
1275	93	2945.87	-4925.92	-5.118e+04	-4.583e+05	-2.757e+05	0.0
1275	100	-1.548e+04	2.647e+04	-3.839e+04	1.830e+06	1.111e+06	0.0
1275	128	-1.581e+04	2.452e+04	-3.519e+04	1.760e+06	1.154e+06	0.0
1275	136	-9705.22	1.339e+04	-3.413e+04	9.802e+05	7.037e+05	0.0
1275	183	1952.05	-3398.10	-3.810e+04	-3.214e+05	-1.877e+05	0.0
1275	186	-1.036e+04	1.735e+04	-3.698e+04	1.179e+06	7.306e+05	0.0
1275	200	-1.058e+04	1.605e+04	-3.484e+04	1.132e+06	7.593e+05	0.0
1275	204	-6504.96	8625.39	-3.414e+04	6.122e+05	4.594e+05	0.0
1275	208	-100.49	-825.23	-3.479e+04	-1.164e+05	-2.879e+04	0.0
1275	210	-5282.33	7902.71	-3.405e+04	5.155e+05	3.578e+05	0.0
1275	214	-136.57	-1058.90	-3.370e+04	-1.233e+05	-2.422e+04	0.0
1275	215	-99.76	-845.44	-3.405e+04	-1.160e+05	-2.898e+04	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 126 di 378

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
1275	224	8227.50	1560.71	-3.592e+04	-3.928e+04	-6.378e+05	0.0
1275	231	-8466.80	-3570.71	-3.222e+04	-2.190e+05	5.767e+05	0.0
1275	233	-1390.57	-6206.38	-1.195e+04	-9.320e+04	2.470e+05	0.0
1275	234	1191.06	4515.50	-5.615e+04	-1.387e+05	-3.050e+05	0.0
1275	256	5838.57	934.17	-3.563e+04	-6.143e+04	-4.638e+05	0.0
1275	263	-6071.17	-2866.89	-3.250e+04	-1.905e+05	4.037e+05	0.0
1275	265	-1072.82	-4861.52	-1.746e+04	-9.699e+04	1.775e+05	0.0
1275	266	873.30	3170.64	-5.064e+04	-1.349e+05	-2.354e+05	0.0
1275	288	4216.42	467.10	-3.527e+04	-7.623e+04	-3.457e+05	0.0
1275	295	-4440.53	-2337.41	-3.285e+04	-1.705e+05	2.862e+05	0.0
1275	297	-837.18	-3823.33	-2.176e+04	-1.018e+05	1.250e+05	0.0
1275	298	637.67	2132.45	-4.635e+04	-1.301e+05	-1.830e+05	0.0
1324	42	1.682e+04	2.550e+04	-4.397e+04	1.793e+06	-1.311e+06	0.0
1324	93	-3005.93	-4830.97	-4.646e+04	-4.360e+05	1.736e+05	0.0
1324	100	1.652e+04	2.684e+04	-3.458e+04	1.884e+06	-1.289e+06	0.0
1324	136	9566.14	1.346e+04	-3.225e+04	9.795e+05	-7.428e+05	0.0
1324	158	1.121e+04	1.689e+04	-3.289e+04	1.180e+06	-8.782e+05	0.0
1324	183	-2011.71	-3332.06	-3.455e+04	-3.060e+05	1.118e+05	0.0
1324	186	1.099e+04	1.760e+04	-3.339e+04	1.217e+06	-8.693e+05	0.0
1324	204	6356.03	8682.62	-3.184e+04	6.135e+05	-5.053e+05	0.0
1324	208	-58.21	-790.59	-3.170e+04	-1.100e+05	-3.039e+04	0.0
1324	210	5415.64	8015.19	-3.094e+04	5.311e+05	-4.435e+05	0.0
1324	214	-90.95	-1043.06	-3.076e+04	-1.208e+05	-2.620e+04	0.0
1324	215	-59.53	-813.60	-3.095e+04	-1.100e+05	-3.035e+04	0.0
1324	224	8223.27	918.69	-3.828e+04	-8.683e+04	-6.318e+05	0.0
1324	237	-802.30	-8883.12	-2.152e+04	-4.784e+05	1.903e+05	0.0
1324	244	5001.85	5937.08	-4.364e+04	1.269e+05	-5.122e+05	0.0
1324	247	-5120.91	-7564.27	-1.827e+04	-3.469e+05	4.515e+05	0.0
1324	256	5848.82	507.20	-3.628e+04	-9.017e+04	-4.600e+05	0.0
1324	269	-638.54	-6881.10	-2.380e+04	-3.862e+05	1.359e+05	0.0
1324	276	3584.30	4274.26	-4.044e+04	6.897e+04	-3.801e+05	0.0
1324	279	-3703.36	-5901.46	-2.147e+04	-2.890e+05	3.194e+05	0.0
1324	288	4234.64	171.72	-3.486e+04	-9.456e+04	-3.432e+05	0.0
1324	301	-511.06	-5315.45	-2.563e+04	-3.148e+05	9.431e+04	0.0
1324	308	2612.18	2964.16	-3.798e+04	2.306e+04	-2.876e+05	0.0
1324	311	-2731.23	-4591.36	-2.393e+04	-2.431e+05	2.269e+05	0.0
1366	38	2.944e+04	1.458e+04	-4.186e+04	9.683e+05	-2.245e+06	0.0
1366	42	4.836e+04	2.505e+04	-4.089e+04	1.727e+06	-3.631e+06	0.0
1366	100	4.791e+04	2.653e+04	-3.179e+04	1.844e+06	-3.587e+06	0.0
1366	127	-1.450e+04	-1.022e+04	-2.910e+04	-7.763e+05	1.004e+06	0.0
1366	156	1.967e+04	9593.02	-3.098e+04	6.278e+05	-1.508e+06	0.0
1366	158	3.229e+04	1.657e+04	-3.034e+04	1.134e+06	-2.432e+06	0.0
1366	186	3.207e+04	1.734e+04	-3.022e+04	1.182e+06	-2.423e+06	0.0
1366	199	-9534.76	-7152.57	-2.844e+04	-5.648e+05	6.375e+05	0.0
1366	208	400.03	-953.32	-2.782e+04	-1.338e+05	-9.514e+04	0.0
1366	209	-4540.07	-3707.79	-2.691e+04	-3.302e+05	2.674e+05	0.0
1366	210	1.618e+04	7788.47	-2.766e+04	4.981e+05	-1.251e+06	0.0
1366	215	392.26	-970.58	-2.709e+04	-1.330e+05	-9.420e+04	0.0
1366	224	8684.97	517.48	-4.003e+04	-1.203e+05	-6.993e+05	0.0
1366	228	8619.09	-351.47	-4.045e+04	-1.961e+05	-6.865e+05	0.0
1366	231	-7834.57	-1589.70	-1.372e+04	-6.992e+04	4.981e+05	0.0
1366	237	-391.38	-1.237e+04	-2.882e+04	-9.371e+05	1.301e+05	0.0
1366	256	6311.03	215.12	-3.632e+04	-1.154e+05	-5.267e+05	0.0
1366	260	6258.94	-440.90	-3.665e+04	-1.726e+05	-5.169e+05	0.0
1366	263	-5474.43	-1500.27	-1.752e+04	-9.340e+04	3.285e+05	0.0
1366	269	-221.03	-9524.13	-2.840e+04	-7.357e+05	7.505e+04	0.0
1366	288	4694.11	-69.63	-3.378e+04	-1.175e+05	-4.092e+05	0.0
1366	292	4655.08	-556.64	-3.403e+04	-1.599e+05	-4.018e+05	0.0
1366	295	-3870.56	-1384.52	-2.014e+04	-1.061e+05	2.134e+05	0.0
1366	301	-85.01	-7312.19	-2.802e+04	-5.795e+05	3.275e+04	0.0
1448	100	-4.638e+04	-2.258e+04	-4.085e+04	-1.635e+06	3.396e+06	0.0
1448	107	8667.58	6892.22	-3.852e+04	5.022e+05	-6.958e+05	0.0
1448	128	-4.589e+04	-2.465e+04	-4.570e+04	-1.711e+06	3.331e+06	0.0
1448	134	-2.701e+04	-1.544e+04	-6.003e+04	-9.901e+05	1.890e+06	0.0
1448	186	-3.079e+04	-1.483e+04	-4.059e+04	-1.053e+06	2.229e+06	0.0
1448	189	5908.02	4821.89	-3.904e+04	3.724e+05	-4.994e+05	0.0
1448	200	-3.046e+04	-1.621e+04	-4.382e+04	-1.103e+06	2.185e+06	0.0
1448	204	-1.796e+04	-1.021e+04	-4.474e+04	-6.462e+05	1.247e+06	0.0
1448	207	366.34	661.10	-4.059e+04	1.136e+05	-1.023e+05	0.0
1448	210	-1.512e+04	-7425.19	-4.008e+04	-4.840e+05	1.051e+06	0.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 127 di 378

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
1448	213	320.52	885.13	-3.934e+04	1.173e+05	-9.635e+04	0.0
1448	215	375.74	655.98	-3.988e+04	1.090e+05	-1.037e+05	0.0
1448	219	-5789.86	2384.89	-6.171e+04	4.469e+05	2.032e+05	0.0
1448	233	6507.86	-4132.12	-6.741e+04	2.349e+05	-7.649e+05	0.0
1448	236	-1780.78	4889.83	-4672.46	-8.038e+04	3.138e+05	0.0
1448	239	2532.26	-3577.87	-7.510e+04	2.983e+05	-5.213e+05	0.0
1448	251	-3991.84	1863.96	-5.587e+04	3.548e+05	1.094e+05	0.0
1448	265	4825.49	-2876.34	-6.077e+04	2.108e+05	-5.888e+05	0.0
1448	268	-1250.71	3790.17	-1.349e+04	-3.851e+04	2.092e+05	0.0
1448	271	2002.20	-2478.21	-6.628e+04	2.564e+05	-4.167e+05	0.0
1448	283	-2777.93	1520.12	-5.159e+04	2.885e+05	4.904e+04	0.0
1448	297	3646.12	-1953.52	-5.543e+04	1.856e+05	-4.616e+05	0.0
1448	300	-846.80	2975.97	-2.034e+04	-921.02	1.292e+05	0.0
1448	303	1598.29	-1664.02	-5.942e+04	2.188e+05	-3.367e+05	0.0
1449	100	-4.796e+04	2.753e+04	-4.395e+04	2.010e+06	3.569e+06	0.0
1449	106	-2.843e+04	1.728e+04	-5.744e+04	1.206e+06	2.060e+06	0.0
1449	128	-4.844e+04	2.549e+04	-3.887e+04	1.939e+06	3.631e+06	0.0
1449	135	8792.98	-7180.86	-3.589e+04	-4.884e+05	-7.000e+05	0.0
1449	186	-3.192e+04	1.819e+04	-4.191e+04	1.320e+06	2.355e+06	0.0
1449	190	-1.893e+04	1.146e+04	-4.275e+04	7.962e+05	1.364e+06	0.0
1449	200	-3.224e+04	1.683e+04	-3.853e+04	1.273e+06	2.397e+06	0.0
1449	203	5913.90	-4954.55	-3.654e+04	-3.458e+05	-4.902e+05	0.0
1449	208	139.69	-477.52	-3.839e+04	-6.094e+04	-6.728e+04	0.0
1449	210	-1.596e+04	8503.09	-3.804e+04	6.176e+05	1.153e+06	0.0
1449	214	94.21	-703.27	-3.711e+04	-6.505e+04	-6.150e+04	0.0
1449	215	147.53	-477.40	-3.768e+04	-5.729e+04	-6.852e+04	0.0
1449	233	-1857.21	-4571.77	-1206.57	1.762e+05	3.186e+05	0.0
1449	234	2152.27	3616.97	-7.415e+04	-2.908e+05	-4.556e+05	0.0
1449	238	1692.29	2542.95	-7.399e+04	-3.753e+05	-4.191e+05	0.0
1449	244	6421.25	6794.41	-6.535e+04	-643.54	-7.138e+05	0.0
1449	265	-1353.34	-3496.90	-1.033e+04	1.241e+05	2.207e+05	0.0
1449	266	1648.40	2542.10	-6.502e+04	-2.387e+05	-3.577e+05	0.0
1449	270	1312.93	1774.52	-6.490e+04	-2.991e+05	-3.310e+05	0.0
1449	276	4716.38	4947.87	-5.868e+04	-1.968e+04	-5.426e+05	0.0
1449	297	-979.98	-2709.56	-1.744e+04	7.793e+04	1.467e+05	0.0
1449	298	1275.03	1754.75	-5.792e+04	-1.925e+05	-2.837e+05	0.0
1449	302	1032.41	1197.81	-5.783e+04	-2.364e+05	-2.644e+05	0.0
1449	308	3507.25	3540.61	-5.332e+04	-3.014e+04	-4.183e+05	0.0
Nodo		Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		-4.844e+04	-2.564e+04	-7.510e+04	-1.746e+06	-3.699e+06	-5840.35
		4.891e+04	2.753e+04	-1206.57	2.010e+06	3.631e+06	3754.60

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		daN	daN	daN	daN cm	daN cm	daN cm
222	54	-2.851e+04	-559.71	-5.743e+04	-2.572e+04	2.063e+06	416.25
	224	6805.45	3215.67	-2.607e+04	1.615e+05	-4.884e+05	-2053.25
	247	-1628.92	-8474.16	-4.478e+04	-2.261e+05	3.716e+04	5978.55
	244	1970.79	8511.17	-3.494e+04	2.567e+05	-1.719e+05	-5840.35
	41	1.544e+04	317.18	-5.515e+04	4.466e+04	-1.221e+06	-58.89
	72	-4.750e+04	-957.65	-4.342e+04	-6.285e+04	3.500e+06	603.82
289	53	2570.13	-62.17	-5.246e+04	-1392.25	-2.440e+05	-41.05
	228	6863.24	3283.12	-3.094e+04	2.006e+05	-4.936e+05	-2268.37
	247	-1902.17	-8970.07	-3.799e+04	-4.487e+05	7.761e+04	3754.60
	244	1884.47	8695.62	-3.404e+04	4.332e+05	-1.579e+05	-3770.39
	217	6985.77	-3331.38	-3.130e+04	-1.711e+05	-5.073e+05	2624.08
	72	-1.558e+04	-886.55	-3.764e+04	-6.424e+04	1.119e+06	129.93
350	25	-2622.33	-109.54	-4.810e+04	-6189.22	1.499e+05	-57.01
	222	-6992.67	2228.60	-2.878e+04	1.371e+05	4.287e+05	-2737.44
	235	-1869.54	-9761.45	-3.163e+04	-6.095e+05	7.684e+04	1957.80
	232	1904.26	9446.10	-3.331e+04	5.897e+05	-1.583e+05	-2015.48
	42	1.706e+04	-857.79	-4.438e+04	-6.083e+04	-1.335e+06	102.92
	218	-6998.90	2503.37	-2.879e+04	1.609e+05	4.294e+05	-2796.42
403	25	-7993.90	-230.03	-4.282e+04	-2.179e+04	5.119e+05	41.02
	227	-6470.11	-2752.91	-1.655e+04	-1.896e+05	3.625e+05	1901.96
	235	-1503.76	-1.249e+04	-2.467e+04	-9.441e+05	2.776e+04	1593.13
	232	2236.07	1.205e+04	-3.225e+04	9.077e+05	-2.038e+05	-1522.25

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 128 di 378

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	42	4.891e+04	-758.82	-4.073e+04	-5.330e+04	-3.699e+06	166.35
	71	-1.482e+04	-106.28	-3.170e+04	-1.254e+04	1.035e+06	1.46
1116	239	1054.73	-4425.98	-5.644e+04	1.693e+05	-2.928e+05	0.0
	236	-1238.80	6684.11	-1.471e+04	2.017e+05	2.301e+05	0.0
	128	-1.532e+04	-2.559e+04	-3.977e+04	-1.724e+06	1.093e+06	0.0
	97	4519.55	1.045e+04	-4.865e+04	8.576e+05	-3.767e+05	0.0
	217	8489.76	-1987.61	-3.751e+04	3.395e+04	-6.586e+05	0.0
	100	-1.563e+04	-2.358e+04	-3.679e+04	-1.645e+06	1.134e+06	0.0
1165	117	-3000.26	5082.54	-4.857e+04	5.277e+05	1.683e+05	0.0
	242	-5004.71	8074.65	-2.029e+04	4.548e+05	4.347e+05	0.0
	128	1.636e+04	-2.564e+04	-3.603e+04	-1.740e+06	-1.255e+06	0.0
	97	-5293.41	1.047e+04	-4.525e+04	8.678e+05	3.526e+05	0.0
	42	1.668e+04	-2.417e+04	-4.598e+04	-1.619e+06	-1.281e+06	0.0
	218	-8583.86	2713.57	-2.507e+04	1.937e+05	5.868e+05	0.0
1207	34	2.958e+04	-1.371e+04	-4.375e+04	-8.445e+05	-2.260e+06	0.0
	222	-7965.59	1399.54	-1.501e+04	1.049e+05	4.989e+05	0.0
	128	4.800e+04	-2.553e+04	-3.333e+04	-1.746e+06	-3.589e+06	0.0
	232	-179.79	1.312e+04	-3.015e+04	1.072e+06	1.004e+05	0.0
	42	4.850e+04	-2.392e+04	-4.285e+04	-1.600e+06	-3.640e+06	0.0
	99	-1.438e+04	1.034e+04	-3.040e+04	8.556e+05	9.791e+05	0.0
1275	234	1191.06	4515.50	-5.615e+04	-1.387e+05	-3.050e+05	0.0
	233	-1390.57	-6206.38	-1.195e+04	-9.320e+04	2.470e+05	0.0
	125	4558.09	-1.020e+04	-4.631e+04	-7.646e+05	-3.781e+05	0.0
	100	-1.548e+04	2.647e+04	-3.839e+04	1.830e+06	1.111e+06	0.0
	224	8227.50	1560.71	-3.592e+04	-3.928e+04	-6.378e+05	0.0
	128	-1.581e+04	2.452e+04	-3.519e+04	1.760e+06	1.154e+06	0.0
1324	93	-3005.93	-4830.97	-4.646e+04	-4.360e+05	1.736e+05	0.0
	247	-5120.91	-7564.27	-1.827e+04	-3.469e+05	4.515e+05	0.0
	125	-5348.32	-1.029e+04	-4.302e+04	-7.793e+05	3.664e+05	0.0
	100	1.652e+04	2.684e+04	-3.458e+04	1.884e+06	-1.289e+06	0.0
	42	1.682e+04	2.550e+04	-4.397e+04	1.793e+06	-1.311e+06	0.0
	227	-8342.33	-2545.88	-2.363e+04	-1.332e+05	5.711e+05	0.0
1366	38	2.944e+04	1.458e+04	-4.186e+04	9.683e+05	-2.245e+06	0.0
	231	-7834.57	-1589.70	-1.372e+04	-6.992e+04	4.981e+05	0.0
	237	-391.38	-1.237e+04	-2.882e+04	-9.371e+05	1.301e+05	0.0
	100	4.791e+04	2.653e+04	-3.179e+04	1.844e+06	-3.587e+06	0.0
	42	4.836e+04	2.505e+04	-4.089e+04	1.727e+06	-3.631e+06	0.0
	127	-1.450e+04	-1.022e+04	-2.910e+04	-7.763e+05	1.004e+06	0.0
1448	239	2532.26	-3577.87	-7.510e+04	2.983e+05	-5.213e+05	0.0
	236	-1780.78	4889.83	-4672.46	-8.038e+04	3.138e+05	0.0
	128	-4.589e+04	-2.465e+04	-4.570e+04	-1.711e+06	3.331e+06	0.0
	97	1.477e+04	9448.09	-5.302e+04	7.351e+05	-1.184e+06	0.0
	125	1.526e+04	7377.73	-5.787e+04	6.589e+05	-1.250e+06	0.0
	100	-4.638e+04	-2.258e+04	-4.085e+04	-1.635e+06	3.396e+06	0.0
1449	234	2152.27	3616.97	-7.415e+04	-2.908e+05	-4.556e+05	0.0
	233	-1857.21	-4571.77	-1206.57	1.762e+05	3.186e+05	0.0
	125	1.504e+04	-1.003e+04	-4.969e+04	-7.368e+05	-1.201e+06	0.0
	100	-4.796e+04	2.753e+04	-4.395e+04	2.010e+06	3.569e+06	0.0
	41	1.575e+04	-9004.82	-5.186e+04	-7.008e+05	-1.265e+06	0.0
	128	-4.844e+04	2.549e+04	-3.887e+04	1.939e+06	3.631e+06	0.0

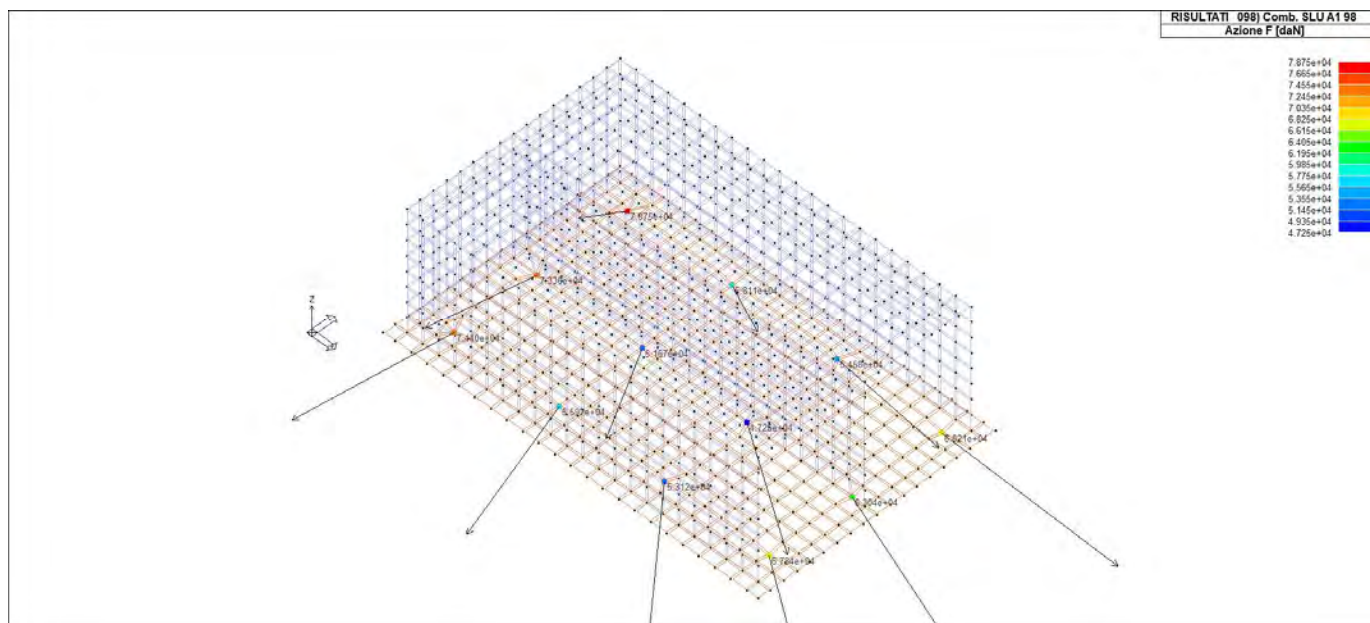


Figura 55 - RIS_REAZIONI_098_Comb SLU A1 98

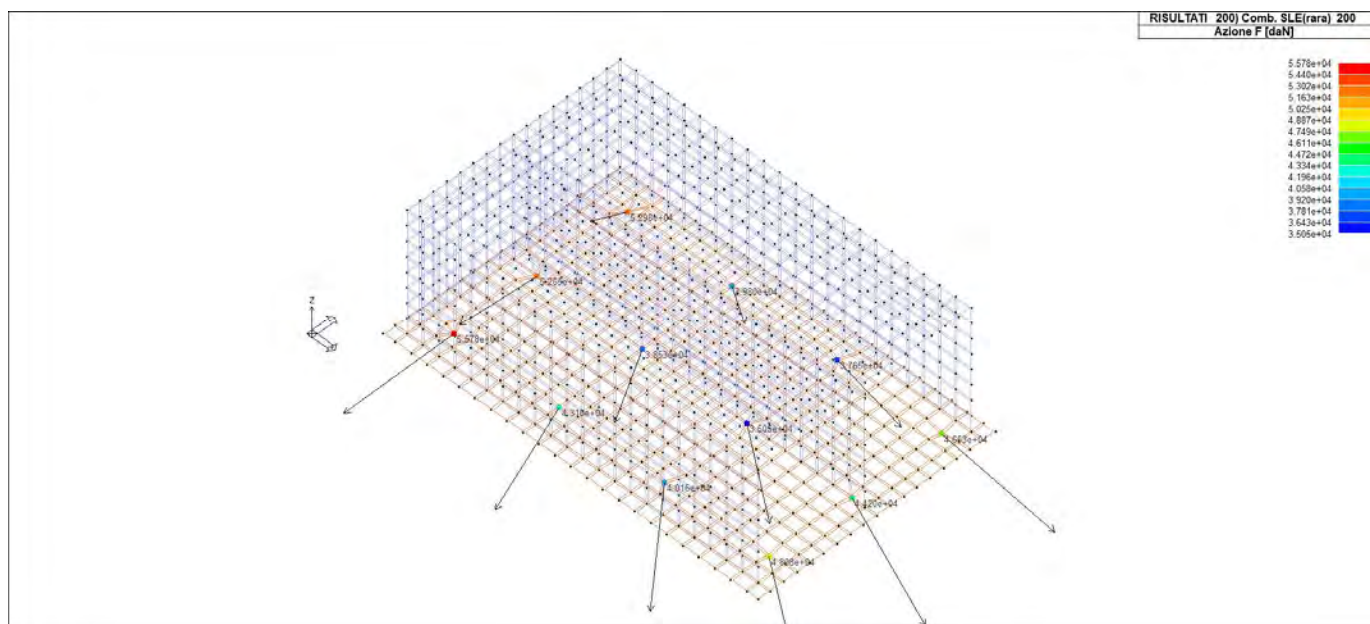


Figura 56 - RIS_REAZIONI_200_Comb SLE(rara) 200

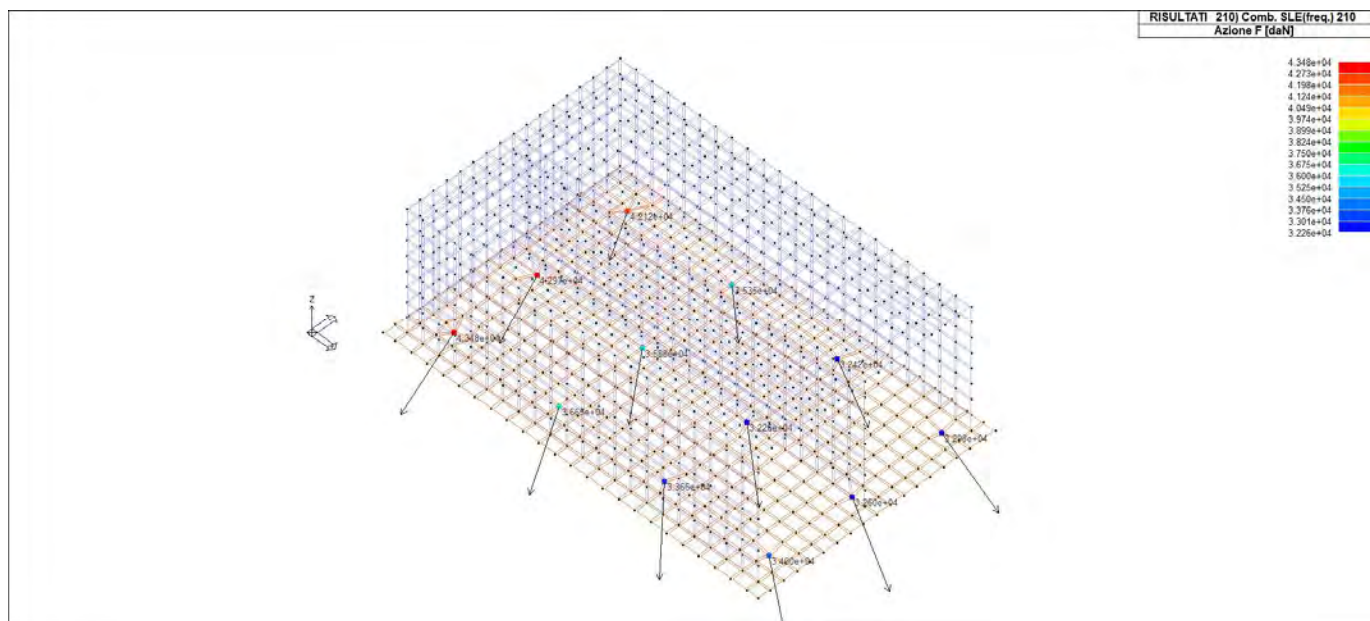


Figura 57 - RIS_REAZIONI_210_Comb SLEfreq 210

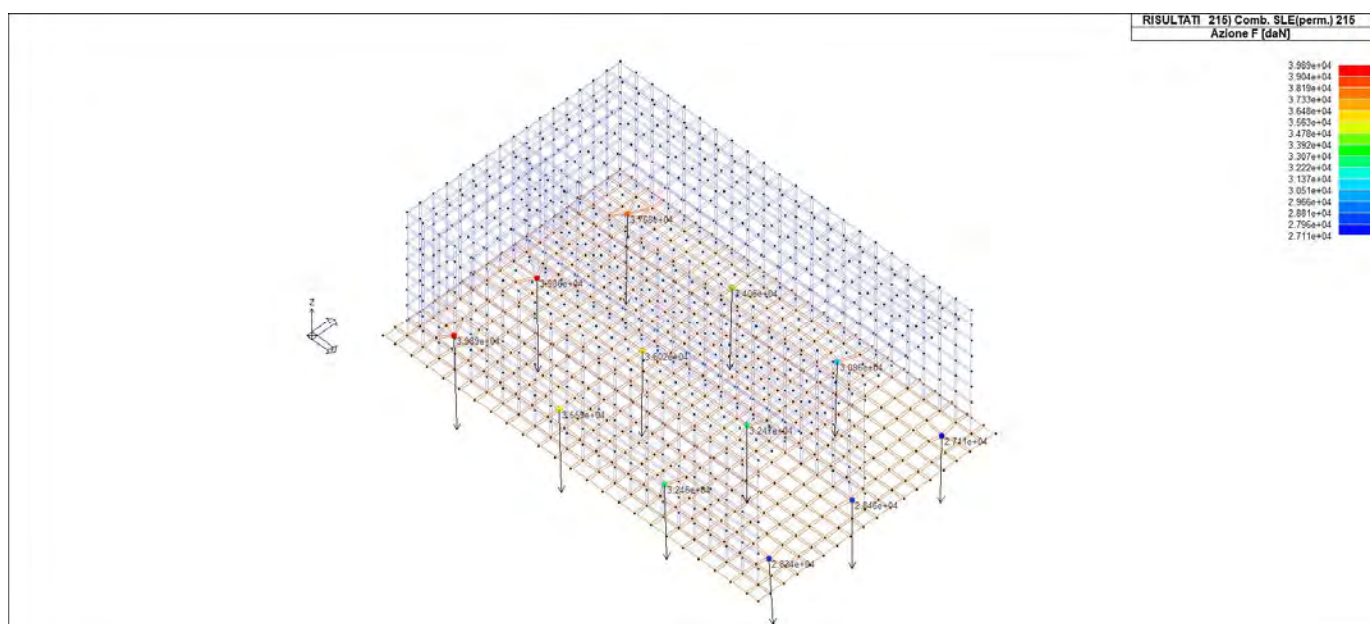


Figura 58 - RIS_REAZIONI_215_Comb SLEperm 215

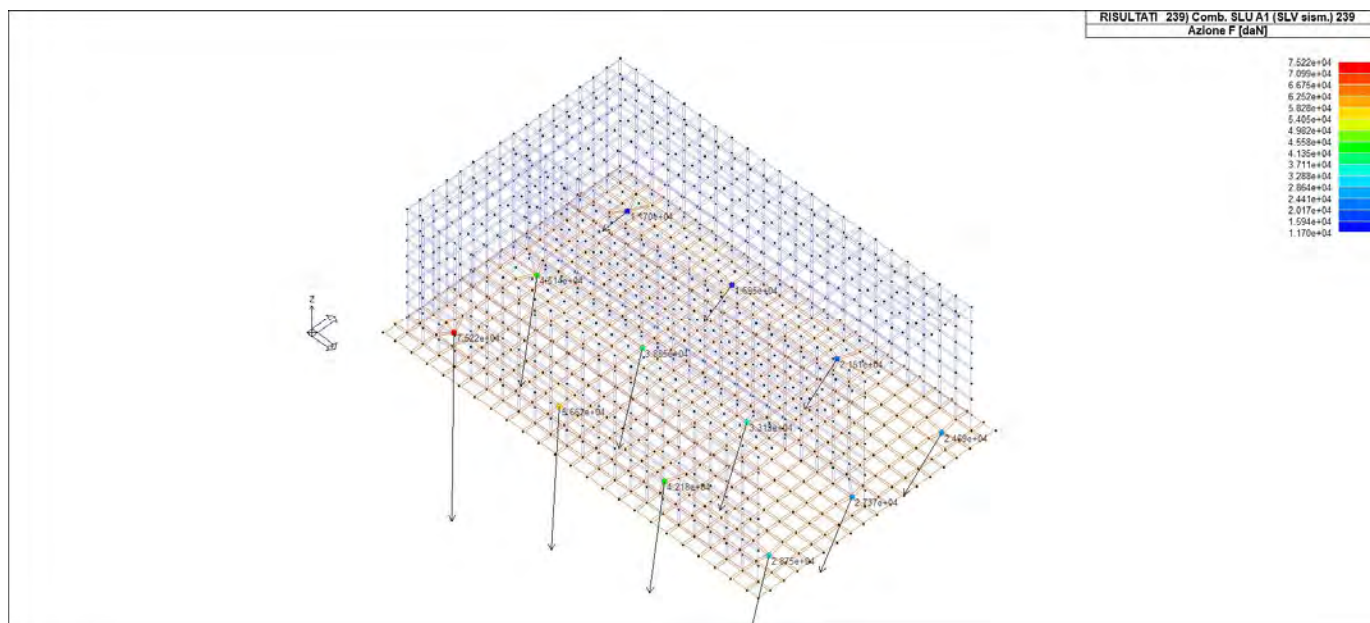


Figura 59 - RIS_REAZIONI_239_Comb SLU A1 SLV sism 239

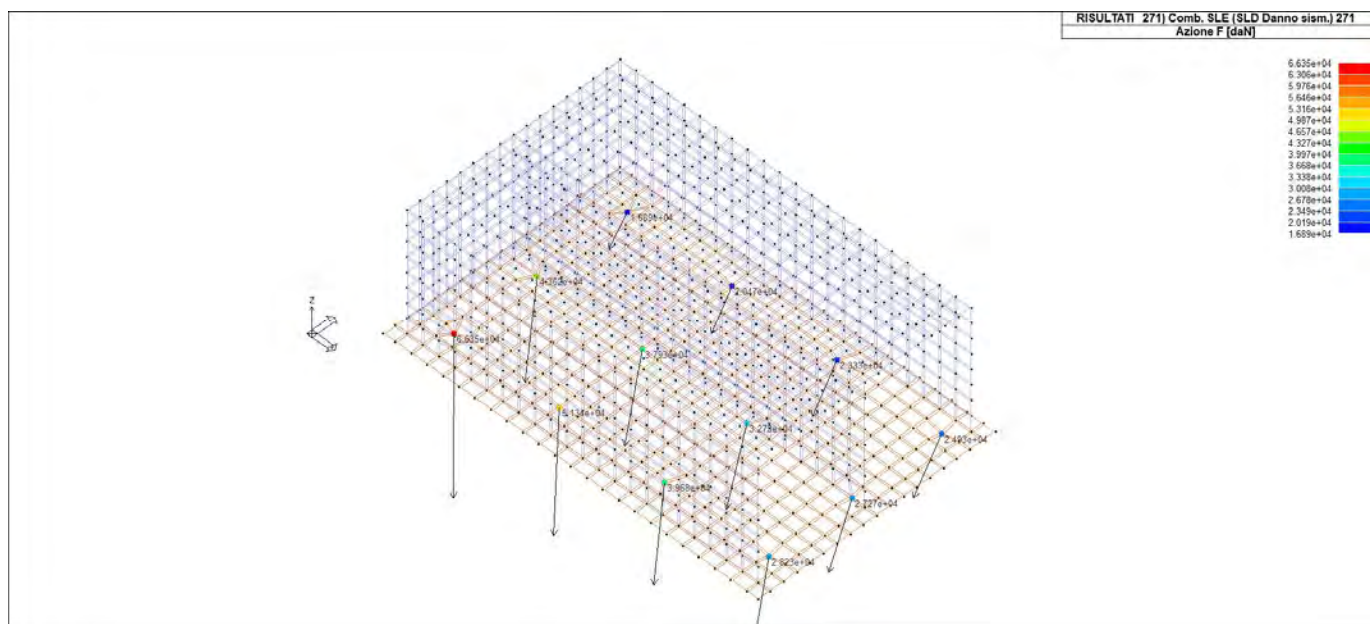


Figura 60 - RIS_REAZIONI_271_Comb SLE SLD Danno sism 271

14 RISULTATI OPERE DI FONDAZIONE

14.1 LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (esprese nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo (<i>PALO</i>) 4) plinto su palo 5) plinto su due pali (<i>PL.2P</i>) 6) plinto su tre pali (<i>PL.3P</i>) 7) plinto su quattro pali (<i>PL.4P</i>) 8) plinto rettangolare su cinque pali (<i>PL.5P.R</i>) 9) plinto pentagonale su cinque pali (<i>PL.5P</i>) 10) plinto su sei pali (<i>PL.6P</i>)
Palo	numero del palo
Comb.	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
Quota	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione F_z (corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.

In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	Codice identificativo del nome assegnato al plinto
area	area dell'impronta del plinto
Wink O Wink V	coefficienti di Winkler (orizzontale e verticale) adottati
Comb	Combinazione di carico in cui si verificano i valori riportati
Pt (P1 P2 P3 P4)	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che

compaiono nella tabella.

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
				cm	daN	daN	daN	daN cm	daN cm	daN cm
222	L10M_ - PALO D 60.00	1	47	0.0	9790.39	184.11	-4.199e+04	-2.944e+04	-7.787e+05	-9.08
		1	54	0.0	-2.851e+04	-559.71	-5.743e+04	2.572e+04	2.063e+06	416.25
		1	72	0.0	-4.750e+04	-957.65	-4.342e+04	6.285e+04	3.500e+06	603.82
		1	105	0.0	9027.31	2090.81	-5.550e+04	-1.234e+05	-7.433e+05	-506.10
		1	159	0.0	6587.84	129.68	-4.134e+04	-2.485e+04	-5.424e+05	17.02
		1	164	0.0	-1.898e+04	-370.38	-4.299e+04	1.526e+04	1.366e+06	285.41
		1	172	0.0	-3.160e+04	-631.49	-4.230e+04	3.667e+04	2.310e+06	425.62
		1	189	0.0	6047.47	1396.63	-4.171e+04	-8.418e+04	-5.051e+05	-329.49
		1	206	0.0	166.99	19.06	-4.027e+04	-1.553e+04	-6.722e+04	70.00
		1	210	0.0	-1.562e+04	-306.48	-4.003e+04	1.092e+04	1.114e+06	246.61
		1	211	0.0	276.75	16.86	-3.977e+04	-1.520e+04	-7.459e+04	71.10
		1	213	0.0	168.68	270.25	-3.985e+04	-2.707e+04	-6.713e+04	1.80
		1	215	0.0	170.93	18.50	-3.986e+04	-1.532e+04	-6.739e+04	69.10
		1	217	0.0	6949.13	-3590.90	-2.672e+04	1.261e+05	-5.054e+05	3025.18
		1	224	0.0	6805.45	3215.67	-2.607e+04	-1.615e+05	-4.884e+05	-2053.25
		1	227	0.0	-6463.58	-3178.67	-5.364e+04	1.309e+05	3.537e+05	2191.45
		1	244	0.0	1970.79	8511.17	-3.494e+04	-2.567e+05	-1.719e+05	-5840.35
		1	249	0.0	4986.92	-2600.02	-3.045e+04	8.308e+04	-3.774e+05	2167.20
		1	256	0.0	4879.10	2350.87	-2.998e+04	-1.183e+05	-3.648e+05	-1435.07
		1	259	0.0	-4537.24	-2313.86	-4.974e+04	8.764e+04	2.300e+05	1573.27
		1	276	0.0	1447.74	6364.16	-3.631e+04	-1.922e+05	-1.409e+05	-4291.42
		1	281	0.0	3664.50	-1896.87	-3.305e+04	5.549e+04	-2.924e+05	1596.44
		1	288	0.0	3585.72	1728.45	-3.270e+04	-8.977e+04	-2.832e+05	-1027.57
		1	291	0.0	-3243.85	-1691.45	-4.702e+04	5.912e+04	1.484e+05	1165.77
		1	308	0.0	1095.91	4719.54	-3.728e+04	-1.458e+05	-1.206e+05	-3156.56
289	L10M_ - PALO D 60.00	1	44	0.0	-1.486e+04	-889.34	-3.746e+04	6.441e+04	1.069e+06	143.09
		1	53	0.0	2570.13	-62.17	-5.246e+04	1392.25	-2.440e+05	-41.05
		1	72	0.0	-1.558e+04	-886.55	-3.764e+04	6.424e+04	1.119e+06	129.93
		1	134	0.0	-9222.93	-2713.14	-5.002e+04	1.728e+05	6.345e+05	353.18
		1	158	0.0	-9909.47	-638.11	-3.701e+04	4.544e+04	6.992e+05	92.80
		1	163	0.0	1716.69	-57.08	-3.916e+04	1763.20	-1.684e+05	-28.40
		1	172	0.0	-1.039e+04	-636.25	-3.713e+04	4.533e+04	7.325e+05	84.03
		1	204	0.0	-6145.35	-1824.40	-3.753e+04	1.160e+05	4.172e+05	234.43
		1	206	0.0	-13.38	-138.27	-3.643e+04	7802.10	-3.977e+04	-7.76
		1	210	0.0	-5110.07	-381.97	-3.552e+04	2.614e+04	3.395e+05	39.55
		1	215	0.0	-8.85	-137.23	-3.602e+04	7762.91	-4.013e+04	-7.90
		1	217	0.0	6985.77	-3331.38	-3.130e+04	1.711e+05	-5.073e+05	2624.08
		1	228	0.0	6863.24	3283.12	-3.094e+04	-2.006e+05	-4.936e+05	-2268.37
		1	231	0.0	-6880.95	-3557.57	-4.109e+04	2.161e+05	4.134e+05	2252.57
		1	247	0.0	-1902.17	-8970.07	-3.799e+04	4.487e+05	7.761e+04	3754.60
		1	249	0.0	4962.59	-2502.77	-3.265e+04	1.277e+05	-3.711e+05	1843.95
		1	260	0.0	4870.98	2408.76	-3.239e+04	-1.462e+05	-3.609e+05	-1629.97
		1	263	0.0	-4888.69	-2683.21	-3.965e+04	1.617e+05	2.807e+05	1614.18
		1	279	0.0	-1353.86	-6773.92	-3.744e+04	3.382e+05	4.305e+04	2702.36
		1	281	0.0	3597.24	-1881.48	-3.358e+04	9.594e+04	-2.803e+05	1337.84
		1	292	0.0	3530.50	1743.30	-3.338e+04	-1.057e+05	-2.729e+05	-1193.97
		1	295	0.0	-3548.21	-2017.75	-3.865e+04	1.212e+05	1.926e+05	1178.17
		1	311	0.0	-983.61	-5059.62	-3.705e+04	2.527e+05	2.012e+04	1991.05
350	L10M_ - PALO D 60.00	1	25	0.0	-2622.33	-109.54	-4.810e+04	6189.22	1.499e+05	-57.01
		1	42	0.0	1.706e+04	-857.79	-4.438e+04	6.083e+04	-1.335e+06	102.92
		1	72	0.0	1.635e+04	-810.43	-3.350e+04	5.785e+04	-1.273e+06	98.80
		1	134	0.0	9963.15	-2756.54	-4.512e+04	1.900e+05	-8.026e+05	128.91
		1	149	0.0	-1744.75	-90.99	-3.578e+04	5199.30	9.446e+04	-41.43
		1	158	0.0	1.138e+04	-589.82	-3.330e+04	4.162e+04	-8.956e+05	65.19
		1	172	0.0	1.090e+04	-592.31	-3.317e+04	4.179e+04	-8.625e+05	56.31
		1	204	0.0	6645.57	-1855.65	-3.379e+04	1.278e+05	-5.405e+05	82.52
		1	207	0.0	16.77	-117.61	-3.290e+04	-17.11	-4.054e+04	-22.09
		1	210	0.0	5541.75	-368.79	-3.178e+04	2.531e+04	-4.575e+05	15.96
		1	214	0.0	18.09	-444.29	-3.248e+04	2.958e+04	-4.081e+04	-17.03
		1	215	0.0	17.36	-157.68	-3.247e+04	9914.25	-4.072e+04	-28.84
		1	217	0.0	7033.61	-2818.73	-3.616e+04	1.808e+05	-5.109e+05	2738.74
		1	221	0.0	7027.38	-2543.95	-3.616e+04	1.569e+05	-5.102e+05	2679.75
		1	222	0.0	-6992.67	2228.60	-2.878e+04	-1.371e+05	4.287e+05	-2737.44

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	235	0.0	-1869.54	-9761.45	-3.163e+04	6.095e+05	7.684e+04	1957.80
		1	249	0.0	5005.11	-2158.86	-3.507e+04	1.380e+05	-3.739e+05	1944.48
		1	253	0.0	4999.79	-1952.76	-3.508e+04	1.201e+05	-3.733e+05	1889.12
		1	254	0.0	-4965.07	1637.41	-2.987e+04	-1.003e+05	2.918e+05	-1946.81
		1	267	0.0	-1321.86	-7386.27	-3.187e+04	4.611e+05	4.219e+04	1379.97
		1	281	0.0	3635.20	-1642.51	-3.436e+04	1.049e+05	-2.825e+05	1409.06
		1	285	0.0	3631.19	-1489.54	-3.436e+04	9.162e+04	-2.820e+05	1366.80
		1	286	0.0	-3596.47	1174.19	-3.058e+04	-7.179e+04	2.006e+05	-1424.49
		1	299	0.0	-952.63	-5522.82	-3.204e+04	3.448e+05	1.928e+04	1017.12
403	L10M_ - PALO D 60.00	1	25	0.0	-7993.90	-230.03	-4.282e+04	2.179e+04	5.119e+05	41.02
		1	42	0.0	4.891e+04	-758.82	-4.073e+04	5.330e+04	-3.699e+06	166.35
		1	72	0.0	4.809e+04	-697.51	-3.072e+04	4.797e+04	-3.623e+06	141.92
		1	134	0.0	2.928e+04	-2793.29	-4.065e+04	2.061e+05	-2.249e+06	447.83
		1	149	0.0	-5286.16	-178.26	-3.174e+04	1.653e+04	3.304e+05	31.36
		1	158	0.0	3.265e+04	-530.78	-3.035e+04	3.754e+04	-2.477e+06	114.91
		1	172	0.0	3.218e+04	-537.48	-2.996e+04	3.796e+04	-2.445e+06	106.47
		1	204	0.0	1.956e+04	-1887.09	-3.029e+04	1.394e+05	-1.510e+06	302.57
		1	207	0.0	369.07	-182.79	-2.889e+04	8895.76	-8.831e+04	35.51
		1	210	0.0	1.634e+04	-369.20	-2.821e+04	2.719e+04	-1.271e+06	71.11
		1	214	0.0	367.07	-513.44	-2.846e+04	3.996e+04	-8.813e+04	79.80
		1	215	0.0	366.16	-219.04	-2.846e+04	1.819e+04	-8.803e+04	35.44
		1	217	0.0	7326.45	-2399.17	-4.020e+04	1.691e+05	-5.522e+05	2666.22
		1	224	0.0	7202.42	2314.82	-4.036e+04	-1.532e+05	-5.386e+05	-1831.07
		1	227	0.0	-6470.11	-2752.91	-1.655e+04	1.896e+05	3.625e+05	1901.96
		1	235	0.0	-1503.76	-1.249e+04	-2.467e+04	9.441e+05	2.776e+04	1593.13
		1	249	0.0	5315.72	-1907.23	-3.685e+04	1.357e+05	-4.171e+05	1900.16
		1	256	0.0	5222.20	1722.19	-3.696e+04	-1.140e+05	-4.069e+05	-1284.50
		1	259	0.0	-4489.89	-2160.28	-1.996e+04	1.504e+05	2.309e+05	1355.38
		1	267	0.0	-961.36	-9434.32	-2.576e+04	7.133e+05	-6342.53	1101.00
		1	281	0.0	3956.18	-1488.66	-3.454e+04	1.069e+05	-3.268e+05	1392.33
		1	288	0.0	3887.92	1233.31	-3.462e+04	-8.102e+04	-3.194e+05	-926.45
		1	291	0.0	-3155.61	-1671.39	-2.230e+04	1.174e+05	1.433e+05	997.33
		1	299	0.0	-595.29	-7052.92	-2.650e+04	5.336e+05	-2.892e+04	825.02
1116	L10M_ - PALO D 60.00	1	100	0.0	-1.563e+04	-2.358e+04	-3.679e+04	1.645e+06	1.134e+06	0.0
		1	108	0.0	-9587.68	-1.266e+04	-3.588e+04	8.751e+05	6.903e+05	0.0
		1	117	0.0	2909.53	5212.24	-5.328e+04	-5.504e+05	-2.740e+05	0.0
		1	128	0.0	-1.532e+04	-2.559e+04	-3.977e+04	1.724e+06	1.093e+06	0.0
		1	186	0.0	-1.045e+04	-1.533e+04	-3.642e+04	1.032e+06	7.456e+05	0.0
		1	190	0.0	-6423.66	-8047.53	-3.582e+04	5.190e+05	4.496e+05	0.0
		1	195	0.0	1929.18	3621.83	-3.968e+04	-3.909e+05	-1.869e+05	0.0
		1	200	0.0	-1.024e+04	-1.667e+04	-3.840e+04	1.085e+06	7.182e+05	0.0
		1	207	0.0	-94.07	1118.73	-3.633e+04	-1.877e+05	-3.097e+04	0.0
		1	210	0.0	-5218.52	-7419.82	-3.551e+04	4.346e+05	3.500e+05	0.0
		1	213	0.0	-127.21	1349.87	-3.525e+04	-1.940e+05	-2.677e+04	0.0
		1	215	0.0	-92.04	1129.06	-3.558e+04	-1.855e+05	-3.133e+04	0.0
		1	217	0.0	8489.76	-1987.61	-3.751e+04	-3.395e+04	-6.586e+05	0.0
		1	222	0.0	-8663.17	4561.88	-3.366e+04	-3.630e+05	5.884e+05	0.0
		1	236	0.0	-1238.80	6684.11	-1.471e+04	-2.017e+05	2.301e+05	0.0
		1	239	0.0	1054.73	-4425.98	-5.644e+04	-1.693e+05	-2.928e+05	0.0
		1	249	0.0	6038.68	-1162.83	-3.719e+04	-7.678e+04	-4.802e+05	0.0
		1	254	0.0	-6215.26	3660.55	-3.398e+04	-3.139e+05	4.118e+05	0.0
		1	268	0.0	-968.21	5295.87	-1.991e+04	-1.962e+05	1.651e+05	0.0
		1	271	0.0	784.13	-3037.74	-5.124e+04	-1.748e+05	-2.278e+05	0.0
		1	281	0.0	4363.03	-556.55	-3.682e+04	-1.063e+05	-3.582e+05	0.0
		1	286	0.0	-4541.41	2992.45	-3.434e+04	-2.794e+05	2.913e+05	0.0
		1	300	0.0	-759.80	4220.01	-2.397e+04	-1.934e+05	1.154e+05	0.0
		1	303	0.0	575.72	-1961.88	-4.719e+04	-1.776e+05	-1.781e+05	0.0
1165	L10M_ - PALO D 60.00	1	42	0.0	1.668e+04	-2.417e+04	-4.598e+04	1.619e+06	-1.281e+06	0.0
		1	108	0.0	9500.77	-1.253e+04	-3.393e+04	8.486e+05	-7.280e+05	0.0
		1	117	0.0	-3000.26	5082.54	-4.857e+04	-5.277e+05	1.683e+05	0.0
		1	128	0.0	1.636e+04	-2.564e+04	-3.603e+04	1.740e+06	-1.255e+06	0.0
		1	158	0.0	1.111e+04	-1.597e+04	-3.440e+04	1.056e+06	-8.583e+05	0.0
		1	190	0.0	6313.11	-7964.03	-3.346e+04	5.018e+05	-4.961e+05	0.0
		1	195	0.0	-2007.38	3534.01	-3.613e+04	-3.757e+05	1.079e+05	0.0
		1	200	0.0	1.088e+04	-1.670e+04	-3.486e+04	1.096e+06	-8.477e+05	0.0
		1	207	0.0	-58.41	1099.65	-3.320e+04	-1.856e+05	-3.196e+04	0.0
		1	210	0.0	5368.78	-7416.83	-3.239e+04	4.348e+05	-4.344e+05	0.0
		1	213	0.0	-87.22	1348.31	-3.226e+04	-1.956e+05	-2.832e+04	0.0
		1	215	0.0	-59.00	1110.86	-3.244e+04	-1.835e+05	-3.201e+04	0.0
		1	217	0.0	8465.87	-491.86	-3.982e+04	-1.733e+05	-6.508e+05	0.0

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	232	0.0	-670.91	9573.51	-2.367e+04	-6.095e+05	1.737e+05	0.0
		1	241	0.0	4886.71	-5852.94	-4.460e+04	8.775e+04	-4.987e+05	0.0
		1	242	0.0	-5004.71	8074.65	-2.029e+04	-4.548e+04	4.347e+05	0.0
		1	249	0.0	6031.96	-115.85	-3.781e+04	-1.730e+05	-4.746e+05	0.0
		1	264	0.0	-547.54	7473.87	-2.579e+04	-5.030e+05	1.236e+05	0.0
		1	273	0.0	3497.79	-4139.01	-4.153e+04	2.155e+04	-3.703e+05	0.0
		1	274	0.0	-3615.79	6360.72	-2.335e+04	-3.886e+05	3.063e+05	0.0
		1	281	0.0	4366.89	193.95	-3.637e+04	-1.747e+05	-3.543e+05	0.0
		1	296	0.0	-445.27	5831.62	-2.749e+04	-4.204e+05	8.495e+04	0.0
		1	305	0.0	2547.14	-2787.58	-3.917e+04	-3.101e+04	-2.808e+05	0.0
		1	306	0.0	-2665.14	5009.29	-2.571e+04	-3.360e+05	2.167e+05	0.0
1207	L10M_ - PALO D 60.00	1	34	0.0	2.958e+04	-1.371e+04	-4.375e+04	8.445e+05	-2.260e+06	0.0
		1	42	0.0	4.850e+04	-2.392e+04	-4.285e+04	1.600e+06	-3.640e+06	0.0
		1	99	0.0	-1.438e+04	1.034e+04	-3.040e+04	-8.556e+05	9.791e+05	0.0
		1	128	0.0	4.800e+04	-2.553e+04	-3.333e+04	1.746e+06	-3.589e+06	0.0
		1	154	0.0	1.978e+04	-8976.98	-3.238e+04	5.368e+05	-1.520e+06	0.0
		1	158	0.0	3.239e+04	-1.579e+04	-3.178e+04	1.040e+06	-2.440e+06	0.0
		1	185	0.0	-9423.95	7329.97	-2.970e+04	-6.418e+05	6.152e+05	0.0
		1	200	0.0	3.216e+04	-1.659e+04	-3.166e+04	1.093e+06	-2.430e+06	0.0
		1	207	0.0	500.24	1246.36	-2.905e+04	-2.091e+05	-1.128e+05	0.0
		1	209	0.0	-4439.84	3913.70	-2.810e+04	-4.009e+05	2.483e+05	0.0
		1	210	0.0	1.627e+04	-7269.95	-2.895e+04	4.175e+05	-1.263e+06	0.0
		1	215	0.0	490.78	1250.92	-2.830e+04	-2.060e+05	-1.116e+05	0.0
		1	217	0.0	9049.93	214.01	-4.119e+04	-2.285e+05	-7.380e+05	0.0
		1	221	0.0	8947.14	1102.31	-4.160e+04	-3.072e+05	-7.220e+05	0.0
		1	222	0.0	-7965.59	1399.54	-1.501e+04	-1.049e+05	4.989e+05	0.0
		1	232	0.0	-179.79	1.312e+04	-3.015e+04	-1.072e+06	1.004e+05	0.0
		1	249	0.0	6609.66	385.06	-3.751e+04	-2.132e+05	-5.601e+05	0.0
		1	253	0.0	6527.97	1055.54	-3.783e+04	-2.726e+05	-5.477e+05	0.0
		1	254	0.0	-5546.42	1446.31	-1.878e+04	-1.395e+05	3.245e+05	0.0
		1	264	0.0	-45.02	1.016e+04	-2.969e+04	-8.552e+05	4.914e+04	0.0
		1	281	0.0	4937.11	580.91	-3.498e+04	-2.083e+05	-4.381e+05	0.0
		1	285	0.0	4876.00	1078.66	-3.522e+04	-2.523e+05	-4.288e+05	0.0
		1	286	0.0	-3894.45	1423.19	-2.139e+04	-1.597e+05	2.057e+05	0.0
		1	296	0.0	69.11	7852.29	-2.929e+04	-6.869e+05	9203.39	0.0
1275	L10M_ - PALO D 60.00	1	93	0.0	2945.87	-4925.92	-5.118e+04	4.583e+05	-2.757e+05	0.0
		1	100	0.0	-1.548e+04	2.647e+04	-3.839e+04	-1.830e+06	1.111e+06	0.0
		1	128	0.0	-1.581e+04	2.452e+04	-3.519e+04	-1.760e+06	1.154e+06	0.0
		1	136	0.0	-9705.22	1.339e+04	-3.413e+04	-9.802e+05	7.037e+05	0.0
		1	183	0.0	1952.05	-3398.10	-3.810e+04	3.214e+05	-1.877e+05	0.0
		1	186	0.0	-1.036e+04	1.735e+04	-3.698e+04	-1.179e+06	7.306e+05	0.0
		1	200	0.0	-1.058e+04	1.605e+04	-3.484e+04	-1.132e+06	7.593e+05	0.0
		1	204	0.0	-6504.96	8625.39	-3.414e+04	-6.122e+05	4.594e+05	0.0
		1	208	0.0	-100.49	-825.23	-3.479e+04	1.164e+05	-2.879e+04	0.0
		1	210	0.0	-5282.33	7902.71	-3.405e+04	-5.155e+05	3.578e+05	0.0
		1	214	0.0	-136.57	-1058.90	-3.370e+04	1.233e+05	-2.422e+04	0.0
		1	215	0.0	-99.76	-845.44	-3.405e+04	1.160e+05	-2.898e+04	0.0
		1	224	0.0	8227.50	1560.71	-3.592e+04	3.928e+04	-6.378e+05	0.0
		1	231	0.0	-8466.80	-3570.71	-3.222e+04	2.190e+05	5.767e+05	0.0
		1	233	0.0	-1390.57	-6206.38	-1.195e+04	9.320e+04	2.470e+05	0.0
		1	234	0.0	1191.06	4515.50	-5.615e+04	1.387e+05	-3.050e+05	0.0
		1	256	0.0	5838.57	934.17	-3.563e+04	6.143e+04	-4.638e+05	0.0
		1	263	0.0	-6071.17	-2866.89	-3.250e+04	1.905e+05	4.037e+05	0.0
		1	265	0.0	-1072.82	-4861.52	-1.746e+04	9.699e+04	1.775e+05	0.0
		1	266	0.0	873.30	3170.64	-5.064e+04	1.349e+05	-2.354e+05	0.0
		1	288	0.0	4216.42	467.10	-3.527e+04	7.623e+04	-3.457e+05	0.0
		1	295	0.0	-4440.53	-2337.41	-3.285e+04	1.705e+05	2.862e+05	0.0
		1	297	0.0	-837.18	-3823.33	-2.176e+04	1.018e+05	1.250e+05	0.0
		1	298	0.0	637.67	2132.45	-4.635e+04	1.301e+05	-1.830e+05	0.0
1324	L10M_ - PALO D 60.00	1	42	0.0	1.682e+04	2.550e+04	-4.397e+04	-1.793e+06	-1.311e+06	0.0
		1	93	0.0	-3005.93	-4830.97	-4.646e+04	4.360e+05	1.736e+05	0.0
		1	100	0.0	1.652e+04	2.684e+04	-3.458e+04	-1.884e+06	-1.289e+06	0.0
		1	136	0.0	9566.14	1.346e+04	-3.225e+04	-9.795e+05	-7.428e+05	0.0
		1	158	0.0	1.121e+04	1.689e+04	-3.289e+04	-1.180e+06	-8.782e+05	0.0
		1	183	0.0	-2011.71	-3332.06	-3.455e+04	3.060e+05	1.118e+05	0.0
		1	186	0.0	1.099e+04	1.760e+04	-3.339e+04	-1.217e+06	-8.693e+05	0.0
		1	204	0.0	6356.03	8682.62	-3.184e+04	-6.135e+05	-5.053e+05	0.0
		1	208	0.0	-58.21	-790.59	-3.170e+04	1.100e+05	-3.039e+04	0.0
		1	210	0.0	5415.64	8015.19	-3.094e+04	-5.311e+05	-4.435e+05	0.0
		1	214	0.0	-90.95	-1043.06	-3.076e+04	1.208e+05	-2.620e+04	0.0

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	215	0.0	-59.53	-813.60	-3.095e+04	1.100e+05	-3.035e+04	0.0
		1	224	0.0	8223.27	918.69	-3.828e+04	8.683e+04	-6.318e+05	0.0
		1	237	0.0	-802.30	-8883.12	-2.152e+04	4.784e+05	1.903e+05	0.0
		1	244	0.0	5001.85	5937.08	-4.364e+04	-1.269e+05	-5.122e+05	0.0
		1	247	0.0	-5120.91	-7564.27	-1.827e+04	3.469e+05	4.515e+05	0.0
		1	256	0.0	5848.82	507.20	-3.628e+04	9.017e+04	-4.600e+05	0.0
		1	269	0.0	-638.54	-6881.10	-2.380e+04	3.862e+05	1.359e+05	0.0
		1	276	0.0	3584.30	4274.26	-4.044e+04	-6.897e+04	-3.801e+05	0.0
		1	279	0.0	-3703.36	-5901.46	-2.147e+04	2.890e+05	3.194e+05	0.0
		1	288	0.0	4234.64	171.72	-3.486e+04	9.456e+04	-3.432e+05	0.0
		1	301	0.0	-511.06	-5315.45	-2.563e+04	3.148e+05	9.431e+04	0.0
		1	308	0.0	2612.18	2964.16	-3.798e+04	-2.306e+04	-2.876e+05	0.0
		1	311	0.0	-2731.23	-4591.36	-2.393e+04	2.431e+05	-2.69e+05	0.0
1366	L10M_ - PALO D 60.00	1	38	0.0	2.944e+04	1.458e+04	-4.186e+04	-9.683e+05	-2.245e+06	0.0
		1	42	0.0	4.836e+04	2.505e+04	-4.089e+04	-1.727e+06	-3.631e+06	0.0
		1	100	0.0	4.791e+04	2.653e+04	-3.179e+04	-1.844e+06	-3.587e+06	0.0
		1	127	0.0	-1.450e+04	-1.022e+04	-2.910e+04	7.763e+05	1.004e+06	0.0
		1	156	0.0	1.967e+04	9593.02	-3.098e+04	-6.278e+05	-1.508e+06	0.0
		1	158	0.0	3.229e+04	1.657e+04	-3.034e+04	-1.134e+06	-2.432e+06	0.0
		1	186	0.0	3.207e+04	1.734e+04	-3.022e+04	-1.182e+06	-2.423e+06	0.0
		1	199	0.0	-9534.76	-7152.57	-2.844e+04	5.648e+05	6.375e+05	0.0
		1	208	0.0	400.03	-953.32	-2.782e+04	1.338e+05	-9.514e+04	0.0
		1	209	0.0	-4540.07	-3707.79	-2.691e+04	3.302e+05	2.674e+05	0.0
		1	210	0.0	1.618e+04	7788.47	-2.766e+04	-4.981e+05	-1.251e+06	0.0
		1	215	0.0	392.26	-970.58	-2.709e+04	1.330e+05	-9.420e+04	0.0
		1	224	0.0	8684.97	517.48	-4.003e+04	1.203e+05	-6.993e+05	0.0
		1	228	0.0	8619.09	-351.47	-4.045e+04	1.961e+05	-6.865e+05	0.0
		1	231	0.0	-7834.57	-1589.70	-1.372e+04	6.992e+04	4.981e+05	0.0
		1	237	0.0	-391.38	-1.237e+04	-2.882e+04	9.371e+05	1.301e+05	0.0
		1	256	0.0	6311.03	215.12	-3.632e+04	1.154e+05	-5.267e+05	0.0
		1	260	0.0	6258.94	-440.90	-3.665e+04	1.726e+05	-5.169e+05	0.0
		1	263	0.0	-5474.43	-1500.27	-1.752e+04	9.340e+04	3.285e+05	0.0
		1	269	0.0	-221.03	-9524.13	-2.840e+04	7.357e+05	7.505e+04	0.0
		1	288	0.0	4694.11	-69.63	-3.378e+04	1.175e+05	-4.092e+05	0.0
		1	292	0.0	4655.08	-556.64	-3.403e+04	1.599e+05	-4.018e+05	0.0
		1	295	0.0	-3870.56	-1384.52	-2.014e+04	1.061e+05	2.134e+05	0.0
		1	301	0.0	-85.01	-7312.19	-2.802e+04	5.795e+05	3.275e+04	0.0
1448	L10M_ - PALO D 60.00	1	100	0.0	-4.638e+04	-2.258e+04	-4.085e+04	1.635e+06	3.396e+06	0.0
		1	107	0.0	8667.58	6892.22	-3.852e+04	-5.022e+05	-6.958e+05	0.0
		1	128	0.0	-4.589e+04	-2.465e+04	-4.570e+04	1.711e+06	3.331e+06	0.0
		1	134	0.0	-2.701e+04	-1.544e+04	-6.003e+04	9.901e+05	1.890e+06	0.0
		1	186	0.0	-3.079e+04	-1.483e+04	-4.059e+04	1.053e+06	2.229e+06	0.0
		1	189	0.0	5908.02	4821.89	-3.904e+04	-3.724e+05	-4.994e+05	0.0
		1	200	0.0	-3.046e+04	-1.621e+04	-4.382e+04	1.103e+06	2.185e+06	0.0
		1	204	0.0	-1.796e+04	-1.021e+04	-4.474e+04	6.462e+05	1.247e+06	0.0
		1	207	0.0	366.34	661.10	-4.059e+04	-1.136e+05	-1.023e+05	0.0
		1	210	0.0	-1.512e+04	-7425.19	-4.008e+04	4.840e+05	1.051e+06	0.0
		1	213	0.0	320.52	885.13	-3.934e+04	-1.173e+05	-9.635e+04	0.0
		1	215	0.0	375.74	655.98	-3.988e+04	-1.090e+05	-1.037e+05	0.0
		1	219	0.0	-5789.86	2384.89	-6.171e+04	-4.469e+05	2.032e+05	0.0
		1	233	0.0	6507.86	-4132.12	-6.741e+04	-2.349e+05	-7.649e+05	0.0
		1	236	0.0	-1780.78	4889.83	-4672.46	8.038e+04	3.138e+05	0.0
		1	239	0.0	2532.26	-3577.87	-7.510e+04	-2.983e+05	-5.213e+05	0.0
		1	251	0.0	-3991.84	1863.96	-5.587e+04	-3.548e+05	1.094e+05	0.0
		1	265	0.0	4825.49	-2876.34	-6.077e+04	-2.108e+05	-5.888e+05	0.0
		1	268	0.0	-1250.71	3790.17	-1.349e+04	3.851e+04	2.092e+05	0.0
		1	271	0.0	2002.20	-2478.21	-6.628e+04	-2.564e+05	-4.167e+05	0.0
		1	283	0.0	-2777.93	1520.12	-5.159e+04	-2.885e+05	4.904e+04	0.0
		1	297	0.0	3646.12	-1953.52	-5.543e+04	-1.856e+05	-4.616e+05	0.0
		1	300	0.0	-846.80	2975.97	-2.034e+04	921.02	1.292e+05	0.0
		1	303	0.0	1598.29	-1664.02	-5.942e+04	-2.188e+05	-3.367e+05	0.0
1449	L10M_ - PALO D 60.00	1	100	0.0	-4.796e+04	2.753e+04	-4.395e+04	-2.010e+06	3.569e+06	0.0
		1	106	0.0	-2.843e+04	1.728e+04	-5.744e+04	-1.206e+06	2.060e+06	0.0
		1	128	0.0	-4.844e+04	2.549e+04	-3.887e+04	-1.939e+06	3.631e+06	0.0
		1	135	0.0	8792.98	-7180.86	-3.589e+04	4.884e+05	-7.000e+05	0.0
		1	186	0.0	-3.192e+04	1.819e+04	-4.191e+04	-1.320e+06	2.355e+06	0.0
		1	190	0.0	-1.893e+04	1.146e+04	-4.275e+04	-7.962e+05	1.364e+06	0.0
		1	200	0.0	-3.224e+04	1.683e+04	-3.853e+04	-1.273e+06	2.397e+06	0.0
		1	203	0.0	5913.90	-4954.55	-3.654e+04	3.458e+05	-4.902e+05	0.0
		1	208	0.0	139.69	-477.52	-3.839e+04	6.094e+04	-6.728e+04	0.0

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	210	0.0	-1.596e+04	8503.09	-3.804e+04	-6.176e+05	1.153e+06	0.0
		1	214	0.0	94.21	-703.27	-3.711e+04	6.505e+04	-6.150e+04	0.0
		1	215	0.0	147.53	-477.40	-3.768e+04	5.729e+04	-6.852e+04	0.0
		1	233	0.0	-1857.21	-4571.77	-1206.57	-1.762e+05	3.186e+05	0.0
		1	234	0.0	2152.27	3616.97	-7.415e+04	2.908e+05	-4.556e+05	0.0
		1	238	0.0	1692.29	2542.95	-7.399e+04	3.753e+05	-4.191e+05	0.0
		1	244	0.0	6421.25	6794.41	-6.535e+04	643.54	-7.138e+05	0.0
		1	265	0.0	-1353.34	-3496.90	-1.033e+04	-1.241e+05	2.207e+05	0.0
		1	266	0.0	1648.40	2542.10	-6.502e+04	2.387e+05	-3.577e+05	0.0
		1	270	0.0	1312.93	1774.52	-6.490e+04	2.991e+05	-3.310e+05	0.0
		1	276	0.0	4716.38	4947.87	-5.868e+04	1.968e+04	-5.426e+05	0.0
		1	297	0.0	-979.98	-2709.56	-1.744e+04	-7.793e+04	1.467e+05	0.0
		1	298	0.0	1275.03	1754.75	-5.792e+04	1.925e+05	-2.837e+05	0.0
		1	302	0.0	1032.41	1197.81	-5.783e+04	2.364e+05	-2.644e+05	0.0
		1	308	0.0	3507.25	3540.61	-5.332e+04	3.014e+04	-4.183e+05	0.0
Nodo					Fx	Fy	Fz	Mx	My	Mz
					-4.844e+04	-2.564e+04	-7.510e+04	-2.010e+06	-3.699e+06	-5840.35
					4.891e+04	2.753e+04	-1206.57	1.746e+06	3.631e+06	3754.60

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
1	-0.23	-0.17	-0.15	-0.14	-0.31	-0.27	-0.24				
2	-0.20	-0.15	-0.14	-0.14	-0.19	-0.18	-0.17				
4	-0.17	-0.12	-0.11	-0.10	-0.16	-0.15	-0.13				
5	-0.14	-0.10	-0.09	-0.09	-0.14	-0.12	-0.12				
15	-0.22	-0.16	-0.14	-0.14	-0.30	-0.26	-0.23				
30	-0.22	-0.16	-0.14	-0.14	-0.29	-0.25	-0.22				
39	-0.21	-0.16	-0.14	-0.14	-0.28	-0.25	-0.22				
48	-0.21	-0.16	-0.14	-0.14	-0.27	-0.24	-0.21				
57	-0.21	-0.16	-0.14	-0.14	-0.26	-0.23	-0.21				
66	-0.21	-0.15	-0.14	-0.13	-0.25	-0.22	-0.20				
75	-0.20	-0.15	-0.14	-0.13	-0.24	-0.21	-0.19				
84	-0.20	-0.15	-0.13	-0.13	-0.23	-0.21	-0.19				
93	-0.20	-0.15	-0.13	-0.13	-0.22	-0.20	-0.18				
102	-0.20	-0.15	-0.13	-0.13	-0.22	-0.19	-0.18				
111	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.17				
120	-0.19	-0.14	-0.13	-0.12	-0.20	-0.18	-0.17				
129	-0.19	-0.14	-0.13	-0.12	-0.19	-0.18	-0.16				
138	-0.18	-0.14	-0.12	-0.12	-0.19	-0.17	-0.16				
147	-0.18	-0.14	-0.12	-0.12	-0.18	-0.16	-0.15				
156	-0.18	-0.13	-0.12	-0.12	-0.18	-0.16	-0.15				
165	-0.18	-0.13	-0.12	-0.12	-0.17	-0.16	-0.15				
174	-0.18	-0.13	-0.12	-0.11	-0.16	-0.15	-0.14				
183	-0.17	-0.13	-0.11	-0.11	-0.16	-0.15	-0.14				
192	-0.17	-0.13	-0.11	-0.11	-0.16	-0.15	-0.14				
201	-0.17	-0.12	-0.11	-0.11	-0.16	-0.15	-0.14				
216	-0.21	-0.16	-0.14	-0.14	-0.26	-0.23	-0.21				
217	-0.21	-0.16	-0.14	-0.14	-0.25	-0.23	-0.20				
218	-0.21	-0.15	-0.14	-0.13	-0.24	-0.22	-0.20				
219	-0.21	-0.15	-0.14	-0.13	-0.24	-0.21	-0.19				
222	-0.19	-0.14	-0.13	-0.13	-0.18	-0.16	-0.16				
237	-0.19	-0.14	-0.13	-0.13	-0.18	-0.16	-0.15				
246	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15				
255	-0.19	-0.14	-0.13	-0.13	-0.16	-0.15	-0.15				
263	-0.18	-0.14	-0.13	-0.13	-0.16	-0.15	-0.14				
271	-0.18	-0.14	-0.13	-0.13	-0.15	-0.14	-0.14				
280	-0.18	-0.13	-0.12	-0.12	-0.14	-0.14	-0.13				
289	-0.17	-0.13	-0.12	-0.12	-0.14	-0.13	-0.13				
298	-0.17	-0.13	-0.12	-0.12	-0.13	-0.13	-0.13				
306	-0.17	-0.13	-0.12	-0.12	-0.13	-0.12	-0.12				
314	-0.17	-0.13	-0.12	-0.12	-0.12	-0.12	-0.12				
323	-0.17	-0.13	-0.12	-0.11	-0.12	-0.12	-0.12				
332	-0.17	-0.12	-0.11	-0.11	-0.12	-0.12	-0.12				
341	-0.16	-0.12	-0.11	-0.11	-0.12	-0.12	-0.11				
350	-0.16	-0.12	-0.11	-0.11	-0.12	-0.12	-0.11				
359	-0.16	-0.12	-0.11	-0.11	-0.12	-0.12	-0.12				

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...						
368	-0.16	-0.12	-0.11	-0.10	-0.13	-0.12	-0.12			
376	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
385	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
394	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
403	-0.14	-0.10	-0.10	-0.09	-0.13	-0.12	-0.11			
419	-0.20	-0.15	-0.13	-0.13	-0.23	-0.20	-0.18			
582	-0.22	-0.16	-0.15	-0.14	-0.29	-0.25	-0.23			
590	-0.22	-0.16	-0.14	-0.14	-0.27	-0.24	-0.21			
598	-0.21	-0.16	-0.14	-0.14	-0.25	-0.22	-0.20			
606	-0.21	-0.16	-0.14	-0.14	-0.23	-0.21	-0.19			
614	-0.21	-0.15	-0.14	-0.14	-0.21	-0.20	-0.18			
622	-0.20	-0.15	-0.14	-0.14	-0.20	-0.19	-0.17			
630	-0.20	-0.15	-0.14	-0.14	-0.20	-0.18	-0.17			
637	-0.21	-0.16	-0.14	-0.13	-0.29	-0.25	-0.22			
639	-0.15	-0.11	-0.10	-0.09	-0.15	-0.13	-0.12			
645	-0.20	-0.15	-0.13	-0.13	-0.22	-0.20	-0.18			
646	-0.20	-0.15	-0.13	-0.13	-0.21	-0.19	-0.17			
647	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.17			
648	-0.19	-0.14	-0.13	-0.12	-0.20	-0.18	-0.17			
651	-0.20	-0.15	-0.13	-0.13	-0.28	-0.24	-0.21			
666	-0.20	-0.15	-0.13	-0.13	-0.27	-0.24	-0.21			
675	-0.20	-0.15	-0.13	-0.13	-0.26	-0.23	-0.20			
684	-0.19	-0.14	-0.13	-0.13	-0.25	-0.22	-0.20			
692	-0.19	-0.14	-0.13	-0.12	-0.24	-0.21	-0.19			
700	-0.19	-0.14	-0.13	-0.12	-0.23	-0.21	-0.18			
709	-0.19	-0.14	-0.12	-0.12	-0.22	-0.20	-0.18			
718	-0.18	-0.14	-0.12	-0.12	-0.21	-0.19	-0.17			
727	-0.18	-0.13	-0.12	-0.12	-0.21	-0.18	-0.17			
735	-0.18	-0.13	-0.12	-0.12	-0.20	-0.18	-0.16			
743	-0.18	-0.13	-0.12	-0.11	-0.19	-0.17	-0.16			
752	-0.17	-0.13	-0.12	-0.11	-0.18	-0.17	-0.15			
761	-0.17	-0.13	-0.11	-0.11	-0.18	-0.16	-0.15			
770	-0.17	-0.12	-0.11	-0.11	-0.17	-0.15	-0.14			
779	-0.17	-0.12	-0.11	-0.11	-0.16	-0.15	-0.14			
788	-0.16	-0.12	-0.11	-0.11	-0.16	-0.15	-0.14			
797	-0.16	-0.12	-0.11	-0.10	-0.15	-0.14	-0.13			
805	-0.16	-0.12	-0.11	-0.10	-0.15	-0.14	-0.13			
814	-0.16	-0.12	-0.10	-0.10	-0.14	-0.13	-0.12			
823	-0.15	-0.11	-0.10	-0.10	-0.15	-0.13	-0.12			
832	-0.15	-0.11	-0.10	-0.10	-0.15	-0.13	-0.12			
848	-0.19	-0.14	-0.13	-0.12	-0.19	-0.17	-0.16			
1011	-0.20	-0.15	-0.14	-0.14	-0.19	-0.18	-0.17			
1019	-0.20	-0.15	-0.14	-0.14	-0.20	-0.18	-0.17			
1027	-0.20	-0.15	-0.14	-0.14	-0.20	-0.19	-0.17			
1035	-0.20	-0.15	-0.14	-0.13	-0.22	-0.20	-0.18			
1043	-0.20	-0.15	-0.14	-0.13	-0.24	-0.21	-0.19			
1051	-0.20	-0.15	-0.14	-0.13	-0.26	-0.22	-0.20			
1059	-0.21	-0.15	-0.14	-0.13	-0.27	-0.24	-0.21			
1066	-0.21	-0.16	-0.14	-0.14	-0.28	-0.24	-0.21			
1067	-0.21	-0.15	-0.14	-0.14	-0.26	-0.23	-0.20			
1068	-0.20	-0.15	-0.14	-0.14	-0.24	-0.21	-0.19			
1069	-0.20	-0.15	-0.14	-0.14	-0.22	-0.20	-0.18			
1070	-0.20	-0.15	-0.14	-0.14	-0.20	-0.19	-0.17			
1071	-0.20	-0.15	-0.14	-0.14	-0.19	-0.18	-0.17			
1072	-0.20	-0.15	-0.14	-0.13	-0.19	-0.17	-0.16			
1073	-0.21	-0.15	-0.14	-0.14	-0.26	-0.23	-0.21			
1074	-0.20	-0.15	-0.13	-0.13	-0.24	-0.21	-0.19			
1075	-0.20	-0.15	-0.13	-0.13	-0.22	-0.20	-0.18			
1076	-0.19	-0.15	-0.13	-0.13	-0.21	-0.19	-0.17			
1077	-0.19	-0.14	-0.13	-0.13	-0.19	-0.18	-0.17			
1078	-0.19	-0.14	-0.13	-0.13	-0.18	-0.17	-0.16			
1079	-0.19	-0.14	-0.13	-0.13	-0.18	-0.17	-0.16			
1080	-0.20	-0.15	-0.14	-0.13	-0.26	-0.23	-0.20			
1081	-0.20	-0.15	-0.13	-0.13	-0.23	-0.21	-0.19			
1082	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.18			
1083	-0.19	-0.14	-0.13	-0.13	-0.20	-0.18	-0.17			
1084	-0.19	-0.14	-0.13	-0.13	-0.19	-0.17	-0.16			
1085	-0.19	-0.14	-0.13	-0.13	-0.18	-0.16	-0.15			
1086	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

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Pag. 140 di
378

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...						
1087	-0.20	-0.15	-0.14	-0.13	-0.25	-0.22	-0.20			
1088	-0.20	-0.15	-0.13	-0.13	-0.23	-0.20	-0.18			
1089	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.17			
1090	-0.19	-0.14	-0.13	-0.13	-0.19	-0.18	-0.16			
1091	-0.19	-0.14	-0.13	-0.13	-0.18	-0.17	-0.16			
1092	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			
1093	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			
1094	-0.20	-0.15	-0.13	-0.13	-0.24	-0.21	-0.19			
1095	-0.19	-0.14	-0.13	-0.13	-0.22	-0.20	-0.18			
1096	-0.19	-0.14	-0.13	-0.13	-0.20	-0.18	-0.17			
1097	-0.19	-0.14	-0.13	-0.13	-0.18	-0.17	-0.16			
1098	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			
1099	-0.18	-0.14	-0.13	-0.13	-0.16	-0.15	-0.15			
1100	-0.18	-0.14	-0.13	-0.13	-0.16	-0.15	-0.14			
1101	-0.20	-0.15	-0.13	-0.13	-0.23	-0.20	-0.18			
1102	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.17			
1103	-0.18	-0.14	-0.13	-0.12	-0.19	-0.17	-0.16			
1104	-0.18	-0.14	-0.13	-0.12	-0.18	-0.16	-0.15			
1105	-0.18	-0.14	-0.13	-0.12	-0.16	-0.15	-0.15			
1106	-0.18	-0.14	-0.13	-0.12	-0.16	-0.15	-0.14			
1107	-0.18	-0.14	-0.13	-0.12	-0.15	-0.15	-0.14			
1108	-0.19	-0.14	-0.13	-0.13	-0.22	-0.19	-0.18			
1109	-0.18	-0.14	-0.12	-0.12	-0.20	-0.18	-0.16			
1110	-0.18	-0.13	-0.12	-0.12	-0.18	-0.16	-0.15			
1111	-0.18	-0.13	-0.12	-0.12	-0.17	-0.16	-0.15			
1112	-0.18	-0.13	-0.12	-0.12	-0.16	-0.15	-0.14			
1113	-0.18	-0.13	-0.12	-0.12	-0.15	-0.14	-0.14			
1114	-0.18	-0.13	-0.12	-0.12	-0.15	-0.14	-0.14			
1115	-0.19	-0.14	-0.13	-0.12	-0.21	-0.19	-0.17			
1116	-0.18	-0.13	-0.12	-0.12	-0.19	-0.17	-0.16			
1117	-0.18	-0.13	-0.12	-0.12	-0.17	-0.16	-0.15			
1118	-0.18	-0.13	-0.12	-0.12	-0.16	-0.15	-0.14			
1119	-0.18	-0.13	-0.12	-0.12	-0.15	-0.14	-0.14			
1120	-0.18	-0.13	-0.12	-0.12	-0.14	-0.14	-0.13			
1121	-0.18	-0.13	-0.12	-0.12	-0.14	-0.13	-0.13			
1122	-0.19	-0.14	-0.13	-0.12	-0.20	-0.18	-0.17			
1123	-0.18	-0.13	-0.12	-0.12	-0.18	-0.16	-0.15			
1124	-0.17	-0.13	-0.12	-0.12	-0.17	-0.15	-0.14			
1125	-0.17	-0.13	-0.12	-0.12	-0.15	-0.15	-0.14			
1126	-0.17	-0.13	-0.12	-0.12	-0.15	-0.14	-0.13			
1127	-0.17	-0.13	-0.12	-0.12	-0.14	-0.13	-0.13			
1128	-0.17	-0.13	-0.12	-0.12	-0.13	-0.13	-0.13			
1129	-0.18	-0.14	-0.13	-0.12	-0.19	-0.18	-0.16			
1130	-0.18	-0.13	-0.12	-0.12	-0.18	-0.16	-0.15			
1131	-0.17	-0.13	-0.12	-0.12	-0.16	-0.15	-0.14			
1132	-0.17	-0.13	-0.12	-0.12	-0.15	-0.14	-0.14			
1133	-0.17	-0.13	-0.12	-0.12	-0.14	-0.14	-0.13			
1134	-0.17	-0.13	-0.12	-0.12	-0.14	-0.13	-0.13			
1135	-0.17	-0.13	-0.12	-0.12	-0.13	-0.13	-0.12			
1136	-0.18	-0.14	-0.12	-0.12	-0.19	-0.17	-0.16			
1137	-0.18	-0.13	-0.12	-0.12	-0.17	-0.16	-0.15			
1138	-0.17	-0.13	-0.12	-0.12	-0.16	-0.15	-0.14			
1139	-0.17	-0.13	-0.12	-0.11	-0.15	-0.14	-0.13			
1140	-0.17	-0.13	-0.12	-0.11	-0.14	-0.13	-0.13			
1141	-0.17	-0.13	-0.12	-0.12	-0.13	-0.13	-0.12			
1142	-0.17	-0.13	-0.12	-0.12	-0.13	-0.12	-0.12			
1143	-0.18	-0.13	-0.12	-0.12	-0.18	-0.17	-0.15			
1144	-0.17	-0.13	-0.12	-0.12	-0.16	-0.15	-0.14			
1145	-0.17	-0.13	-0.12	-0.11	-0.15	-0.14	-0.13			
1146	-0.17	-0.13	-0.12	-0.11	-0.14	-0.13	-0.13			
1147	-0.17	-0.13	-0.12	-0.11	-0.13	-0.13	-0.12			
1148	-0.17	-0.13	-0.12	-0.11	-0.13	-0.12	-0.12			
1149	-0.17	-0.13	-0.12	-0.11	-0.12	-0.12	-0.12			
1150	-0.18	-0.13	-0.12	-0.12	-0.17	-0.16	-0.15			
1151	-0.17	-0.13	-0.12	-0.11	-0.16	-0.15	-0.14			
1152	-0.17	-0.12	-0.11	-0.11	-0.15	-0.14	-0.13			
1153	-0.17	-0.12	-0.11	-0.11	-0.14	-0.13	-0.13			
1154	-0.17	-0.12	-0.11	-0.11	-0.13	-0.13	-0.12			
1155	-0.17	-0.12	-0.11	-0.11	-0.13	-0.12	-0.12			
1156	-0.17	-0.12	-0.11	-0.11	-0.12	-0.12	-0.12			

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...						
1157	-0.17	-0.13	-0.12	-0.11	-0.17	-0.15	-0.14			
1158	-0.16	-0.12	-0.11	-0.11	-0.15	-0.14	-0.13			
1159	-0.16	-0.12	-0.11	-0.11	-0.14	-0.13	-0.13			
1160	-0.16	-0.12	-0.11	-0.11	-0.13	-0.13	-0.12			
1161	-0.16	-0.12	-0.11	-0.11	-0.13	-0.12	-0.12			
1162	-0.16	-0.12	-0.11	-0.11	-0.12	-0.12	-0.12			
1163	-0.16	-0.12	-0.11	-0.11	-0.12	-0.12	-0.12			
1164	-0.17	-0.13	-0.11	-0.11	-0.16	-0.15	-0.14			
1165	-0.16	-0.12	-0.11	-0.11	-0.15	-0.14	-0.13			
1166	-0.16	-0.12	-0.11	-0.11	-0.14	-0.13	-0.12			
1167	-0.16	-0.12	-0.11	-0.11	-0.13	-0.12	-0.12			
1168	-0.16	-0.12	-0.11	-0.11	-0.13	-0.12	-0.12			
1169	-0.16	-0.12	-0.11	-0.11	-0.12	-0.12	-0.12			
1170	-0.16	-0.12	-0.11	-0.11	-0.12	-0.12	-0.12			
1171	-0.17	-0.13	-0.11	-0.11	-0.16	-0.15	-0.14			
1172	-0.16	-0.12	-0.11	-0.11	-0.14	-0.13	-0.13			
1173	-0.16	-0.12	-0.11	-0.11	-0.13	-0.13	-0.12			
1174	-0.16	-0.12	-0.11	-0.10	-0.13	-0.12	-0.12			
1175	-0.16	-0.12	-0.11	-0.11	-0.13	-0.12	-0.12			
1176	-0.16	-0.12	-0.11	-0.11	-0.13	-0.12	-0.12			
1177	-0.16	-0.12	-0.11	-0.11	-0.13	-0.12	-0.12			
1178	-0.17	-0.13	-0.11	-0.11	-0.15	-0.14	-0.13			
1179	-0.16	-0.12	-0.11	-0.11	-0.14	-0.13	-0.13			
1180	-0.16	-0.12	-0.11	-0.10	-0.13	-0.13	-0.12			
1181	-0.16	-0.12	-0.11	-0.10	-0.13	-0.12	-0.12			
1182	-0.16	-0.12	-0.11	-0.10	-0.13	-0.12	-0.12			
1183	-0.16	-0.12	-0.11	-0.10	-0.13	-0.12	-0.12			
1184	-0.16	-0.12	-0.11	-0.10	-0.13	-0.12	-0.12			
1185	-0.17	-0.12	-0.11	-0.11	-0.15	-0.14	-0.13			
1186	-0.16	-0.12	-0.11	-0.11	-0.14	-0.13	-0.12			
1187	-0.16	-0.12	-0.11	-0.10	-0.14	-0.13	-0.12			
1188	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1189	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1190	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1191	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1192	-0.16	-0.12	-0.11	-0.11	-0.15	-0.14	-0.13			
1193	-0.15	-0.11	-0.11	-0.10	-0.14	-0.13	-0.12			
1194	-0.15	-0.11	-0.10	-0.10	-0.14	-0.13	-0.12			
1195	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1196	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1197	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1198	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1199	-0.16	-0.12	-0.11	-0.10	-0.15	-0.14	-0.13			
1200	-0.15	-0.11	-0.10	-0.10	-0.14	-0.13	-0.12			
1201	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1202	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.11			
1203	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.11			
1204	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1205	-0.15	-0.11	-0.10	-0.10	-0.13	-0.12	-0.12			
1206	-0.15	-0.11	-0.10	-0.10	-0.15	-0.13	-0.12			
1207	-0.14	-0.11	-0.10	-0.09	-0.14	-0.12	-0.12			
1208	-0.14	-0.10	-0.10	-0.09	-0.13	-0.12	-0.11			
1209	-0.14	-0.10	-0.09	-0.09	-0.13	-0.12	-0.11			
1210	-0.14	-0.10	-0.10	-0.09	-0.13	-0.12	-0.11			
1211	-0.14	-0.11	-0.10	-0.09	-0.13	-0.12	-0.11			
1212	-0.14	-0.11	-0.10	-0.09	-0.13	-0.12	-0.12			
1213	-0.15	-0.11	-0.10	-0.10	-0.15	-0.13	-0.12			
1214	-0.15	-0.11	-0.10	-0.09	-0.14	-0.13	-0.12			
1215	-0.14	-0.10	-0.09	-0.09	-0.13	-0.12	-0.11			
1216	-0.14	-0.10	-0.09	-0.09	-0.13	-0.12	-0.11			
1217	-0.14	-0.10	-0.09	-0.09	-0.13	-0.12	-0.11			
1218	-0.14	-0.10	-0.09	-0.09	-0.13	-0.12	-0.11			
1219	-0.14	-0.10	-0.09	-0.09	-0.14	-0.12	-0.11			
1220	-0.19	-0.14	-0.14	-0.13	-0.18	-0.17	-0.16			
1221	-0.19	-0.15	-0.13	-0.13	-0.19	-0.17	-0.16			
1222	-0.19	-0.15	-0.13	-0.13	-0.19	-0.18	-0.17			
1223	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.17			
1224	-0.19	-0.14	-0.13	-0.13	-0.22	-0.20	-0.18			
1225	-0.19	-0.14	-0.13	-0.13	-0.24	-0.21	-0.19			
1226	-0.20	-0.15	-0.13	-0.13	-0.26	-0.23	-0.20			

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...						
1227	-0.19	-0.14	-0.13	-0.13	-0.18	-0.16	-0.16			
1228	-0.19	-0.14	-0.13	-0.13	-0.18	-0.17	-0.16			
1229	-0.19	-0.14	-0.13	-0.13	-0.19	-0.17	-0.16			
1230	-0.19	-0.14	-0.13	-0.13	-0.20	-0.18	-0.17			
1231	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.17			
1232	-0.19	-0.14	-0.13	-0.13	-0.23	-0.20	-0.18			
1233	-0.19	-0.14	-0.13	-0.13	-0.25	-0.22	-0.19			
1234	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			
1235	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			
1236	-0.19	-0.14	-0.13	-0.13	-0.18	-0.17	-0.16			
1237	-0.19	-0.14	-0.13	-0.13	-0.19	-0.18	-0.16			
1238	-0.19	-0.14	-0.13	-0.13	-0.21	-0.19	-0.17			
1239	-0.19	-0.14	-0.13	-0.12	-0.22	-0.20	-0.18			
1240	-0.19	-0.14	-0.13	-0.13	-0.24	-0.21	-0.19			
1241	-0.19	-0.14	-0.13	-0.13	-0.17	-0.15	-0.15			
1242	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			
1243	-0.19	-0.14	-0.13	-0.13	-0.17	-0.16	-0.15			
1244	-0.18	-0.14	-0.13	-0.12	-0.18	-0.17	-0.16			
1245	-0.18	-0.14	-0.13	-0.12	-0.20	-0.18	-0.17			
1246	-0.19	-0.14	-0.13	-0.12	-0.21	-0.19	-0.17			
1247	-0.19	-0.14	-0.13	-0.12	-0.23	-0.21	-0.18			
1248	-0.18	-0.14	-0.13	-0.13	-0.16	-0.15	-0.14			
1249	-0.18	-0.14	-0.13	-0.13	-0.16	-0.15	-0.14			
1250	-0.18	-0.14	-0.13	-0.12	-0.17	-0.16	-0.15			
1251	-0.18	-0.14	-0.13	-0.12	-0.18	-0.16	-0.15			
1252	-0.18	-0.14	-0.12	-0.12	-0.19	-0.17	-0.16			
1253	-0.18	-0.14	-0.12	-0.12	-0.21	-0.19	-0.17			
1254	-0.19	-0.14	-0.13	-0.12	-0.22	-0.20	-0.18			
1255	-0.18	-0.14	-0.13	-0.12	-0.15	-0.14	-0.14			
1256	-0.18	-0.13	-0.13	-0.12	-0.15	-0.15	-0.14			
1257	-0.18	-0.13	-0.12	-0.12	-0.16	-0.15	-0.14			
1258	-0.18	-0.13	-0.12	-0.12	-0.17	-0.16	-0.15			
1259	-0.18	-0.13	-0.12	-0.12	-0.18	-0.17	-0.15			
1260	-0.18	-0.13	-0.12	-0.12	-0.20	-0.18	-0.16			
1261	-0.18	-0.14	-0.12	-0.12	-0.21	-0.19	-0.17			
1262	-0.18	-0.13	-0.12	-0.12	-0.15	-0.14	-0.13			
1263	-0.18	-0.13	-0.12	-0.12	-0.15	-0.14	-0.13			
1264	-0.18	-0.13	-0.12	-0.12	-0.15	-0.15	-0.14			
1265	-0.18	-0.13	-0.12	-0.12	-0.16	-0.15	-0.14			
1266	-0.17	-0.13	-0.12	-0.12	-0.17	-0.16	-0.15			
1267	-0.17	-0.13	-0.12	-0.12	-0.19	-0.17	-0.16			
1268	-0.18	-0.13	-0.12	-0.12	-0.20	-0.18	-0.17			
1269	-0.17	-0.13	-0.12	-0.12	-0.14	-0.13	-0.13			
1270	-0.17	-0.13	-0.12	-0.12	-0.14	-0.14	-0.13			
...										
1449	-0.19	-0.14	-0.13	-0.12	-0.24	-0.21	-0.19			
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...						
	-0.34									
	-0.09									

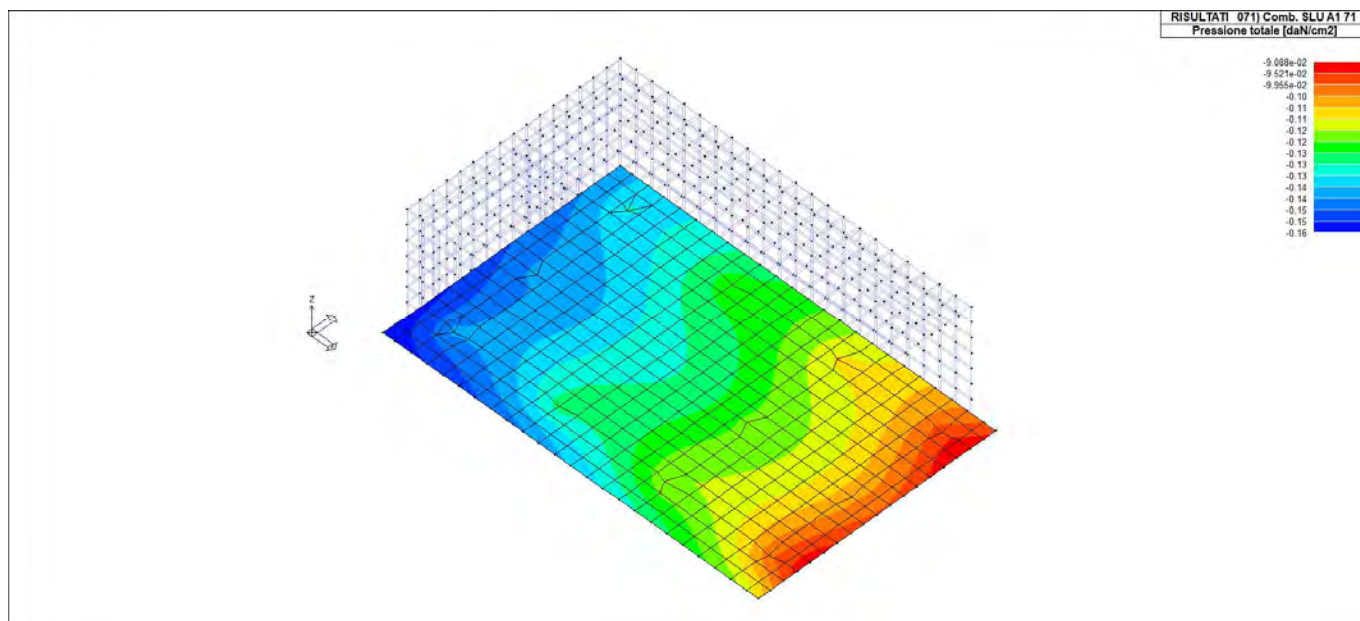


Figura 62 - RIS_PRESSIONI_071_Comb SLU A1 71

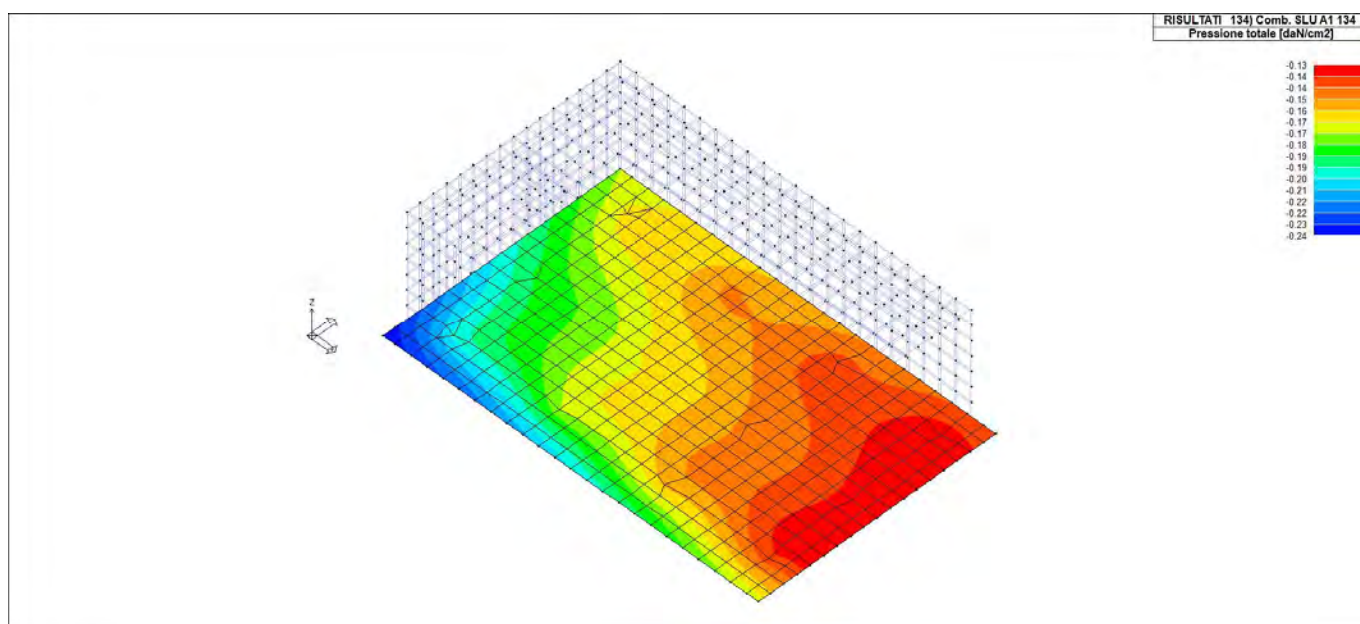


Figura 63 - RIS_PRESSIONI_134_Comb SLU A1 134

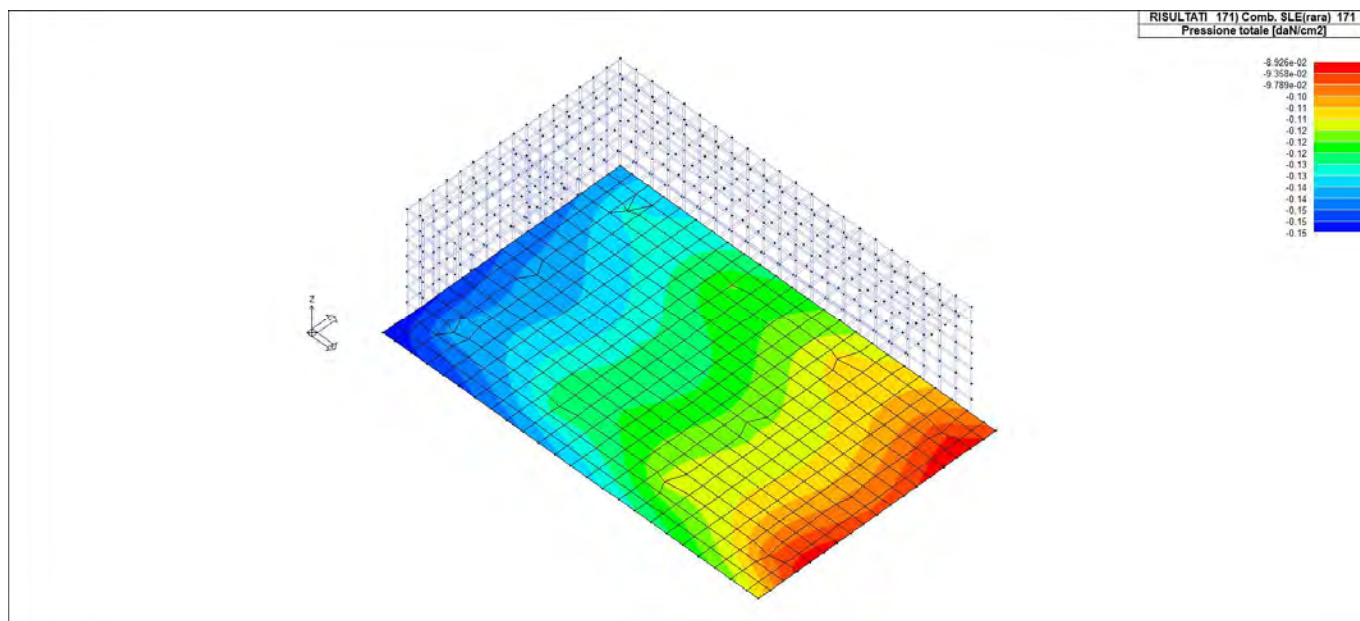


Figura 64 - RIS_PRESSIONI_171_Comb SLErara 171

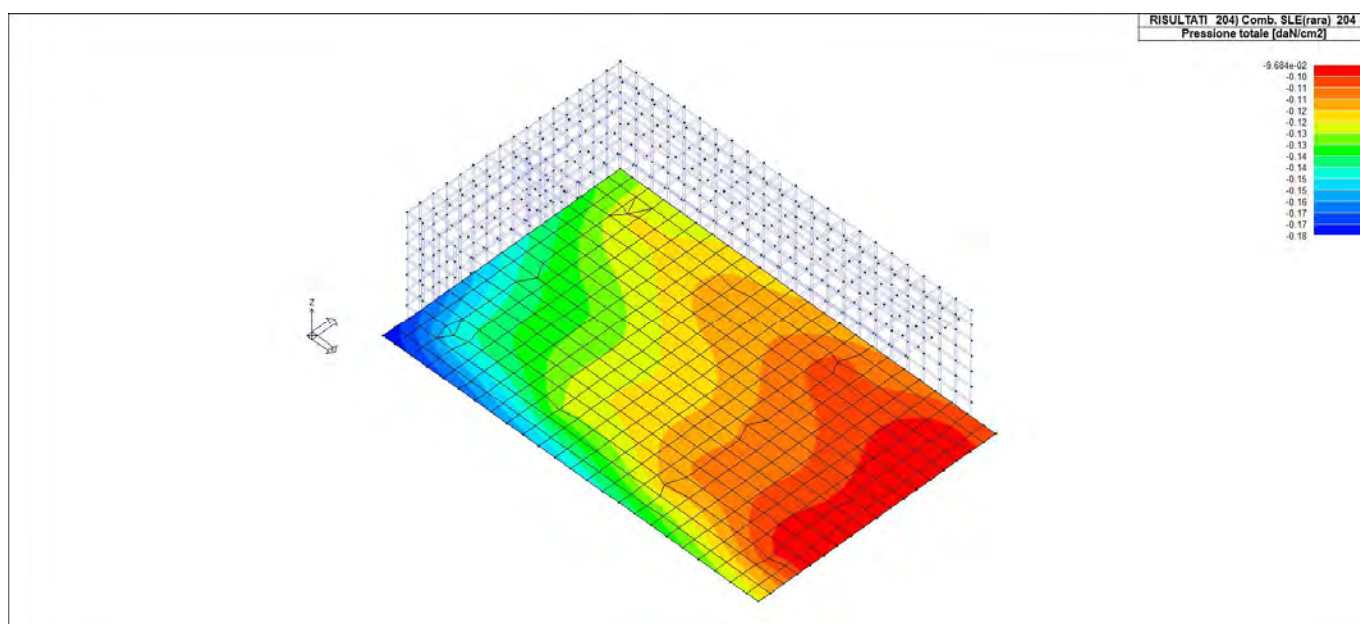


Figura 65 - RIS_PRESSIONI_204_Comb SLErara 204

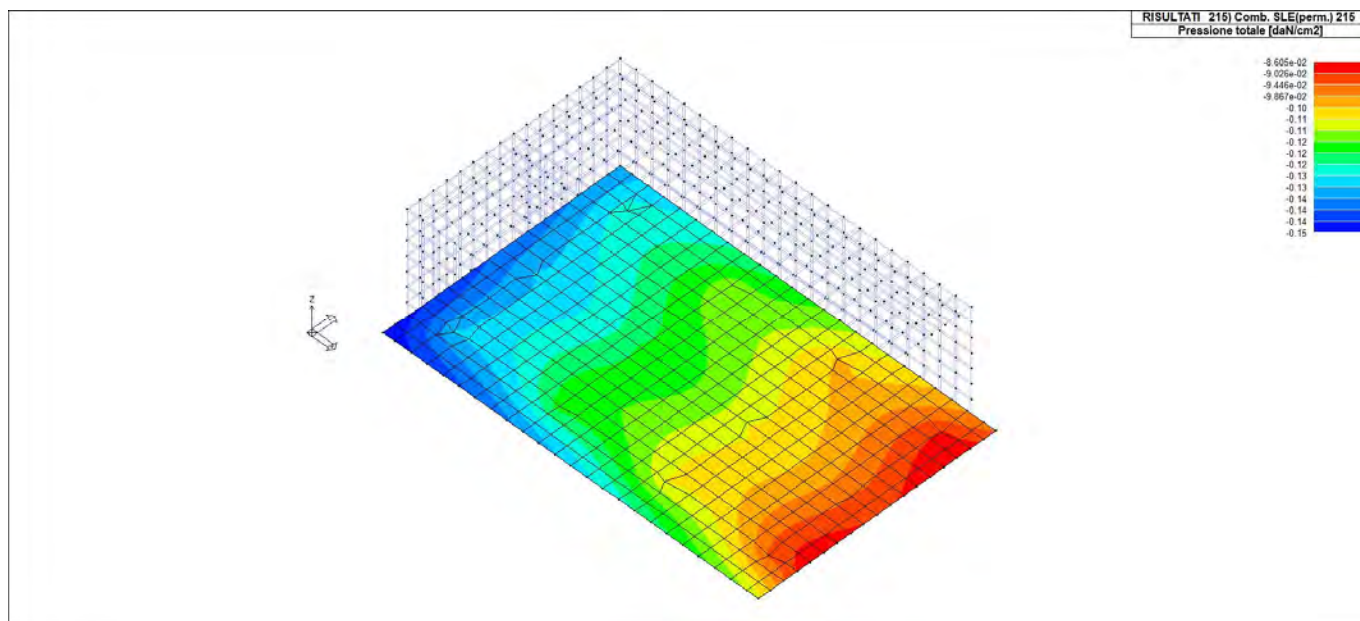


Figura 68 - RIS_PRESSIONI_215_Comb SLEperm 215

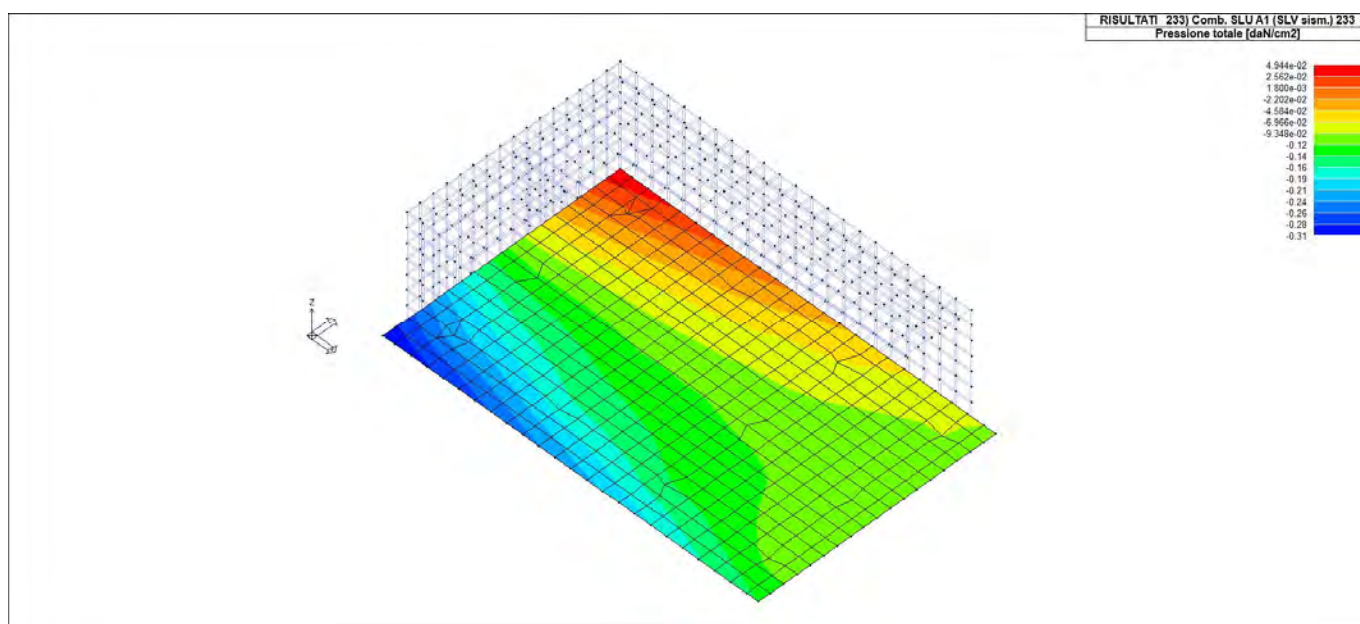


Figura 69 - RIS_PRESSIONI_233_Comb SLU A1 SLV sism 233

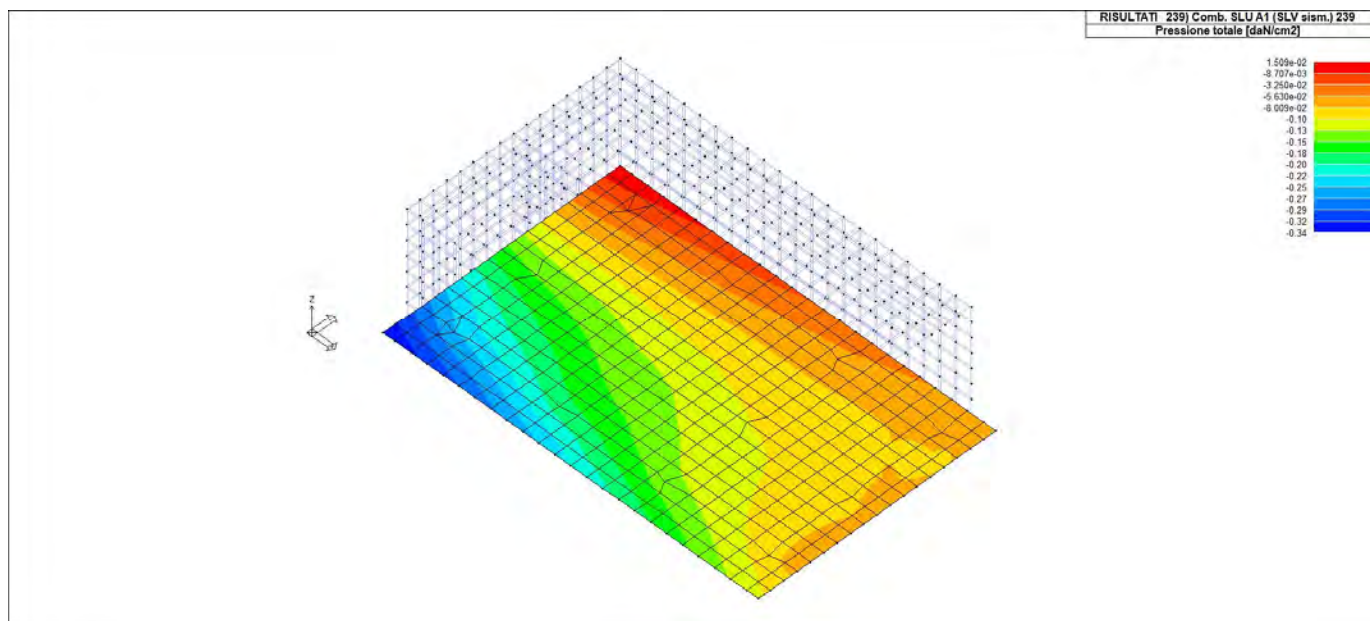


Figura 70 - RIS_PRESSIONI_239_Comb SLU A1 SLV sism 239

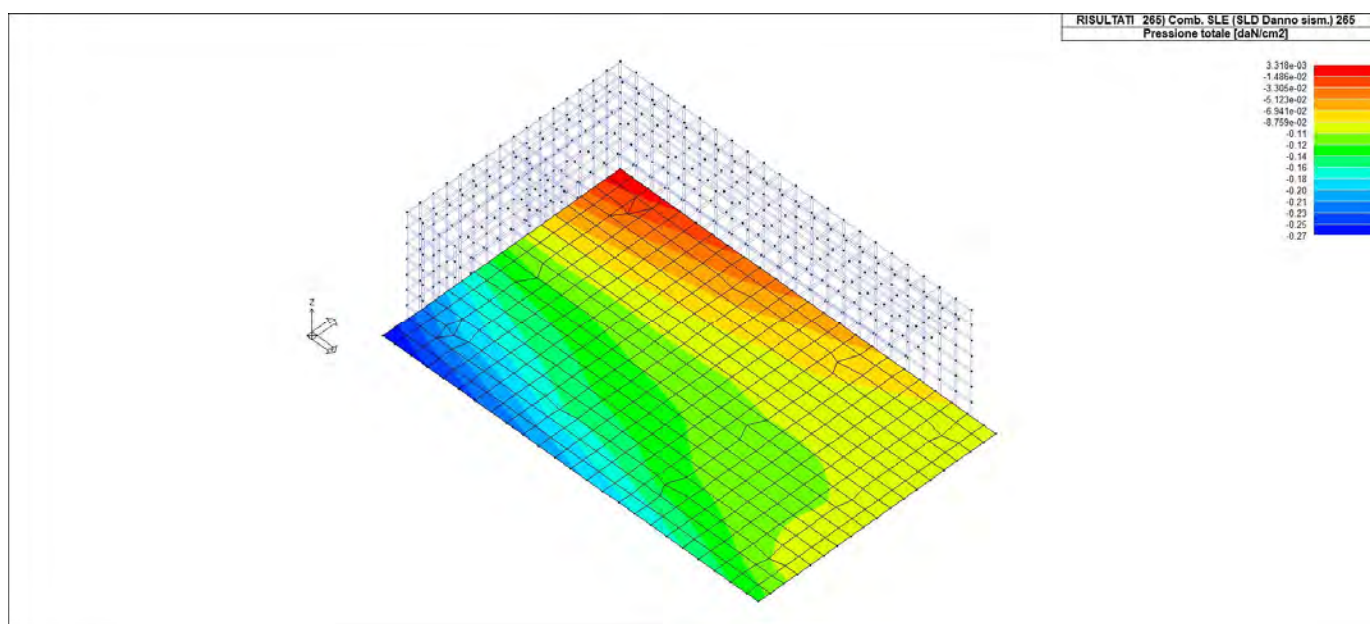


Figura 71 - RIS_PRESSIONI_265_Comb SLE SLD Danno sism 265

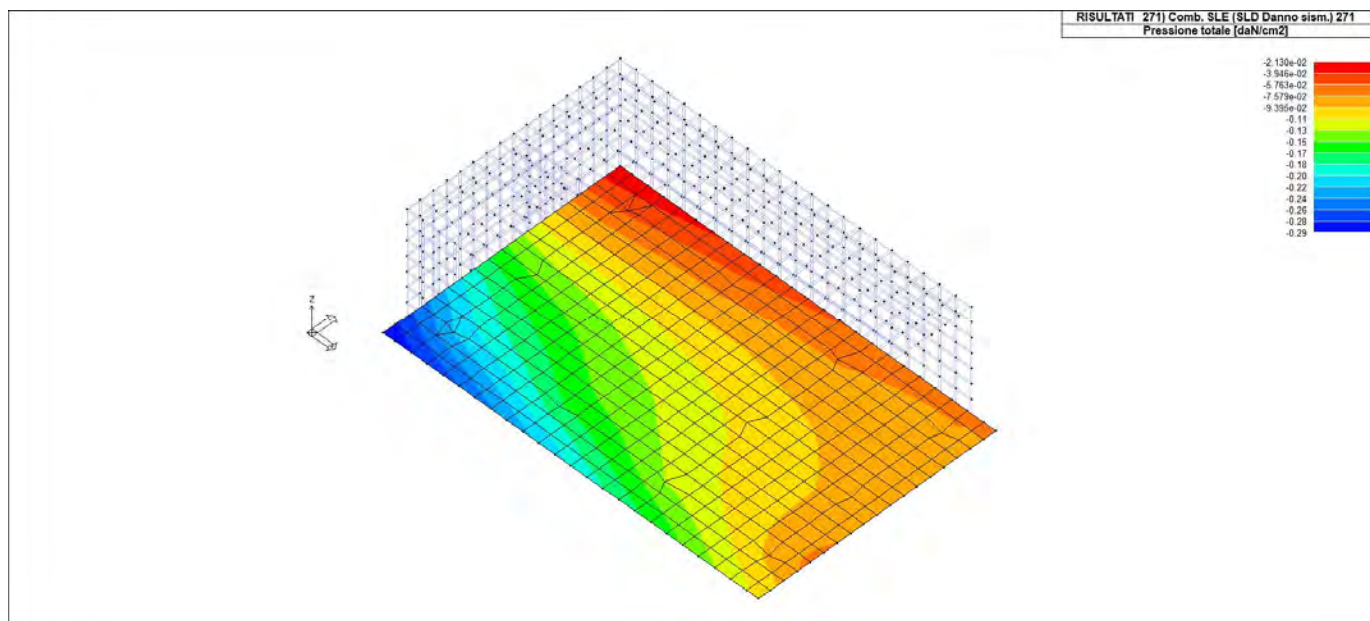


Figura 72 - RIS_PRESSIONI_271_Comb SLE SLD Danno sism 271

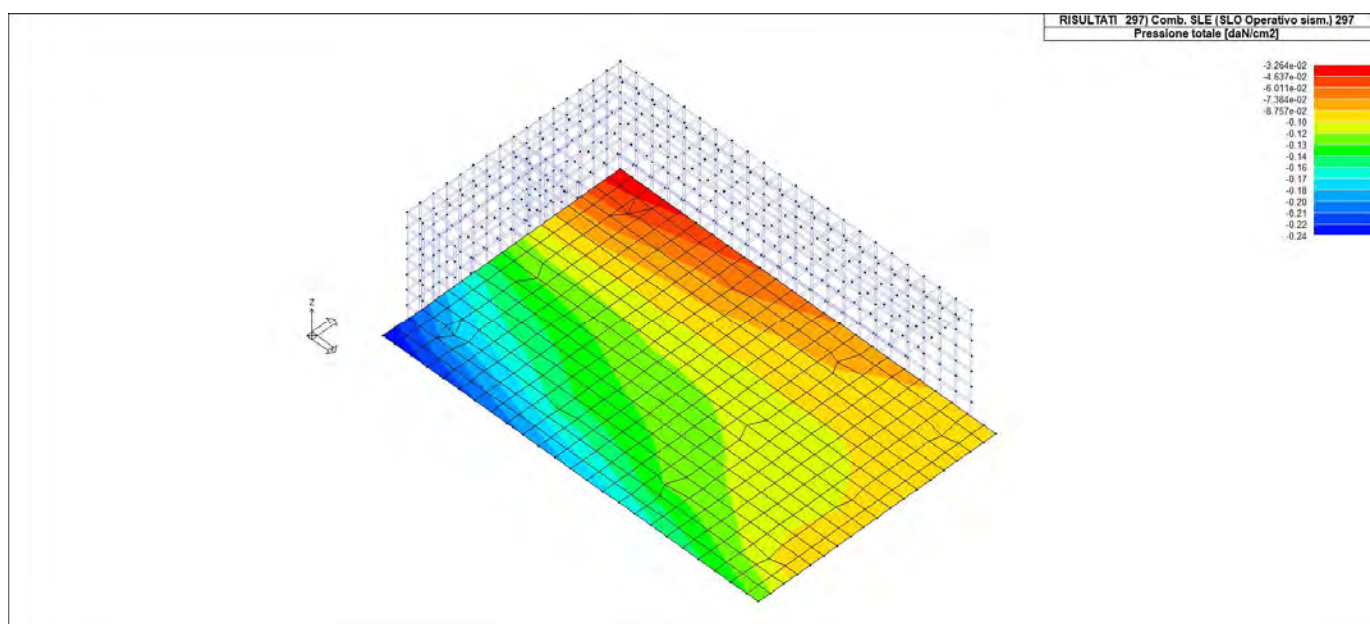


Figura 73 - RIS_PRESSIONI_297_Comb SLE SLO Operativo sism 297

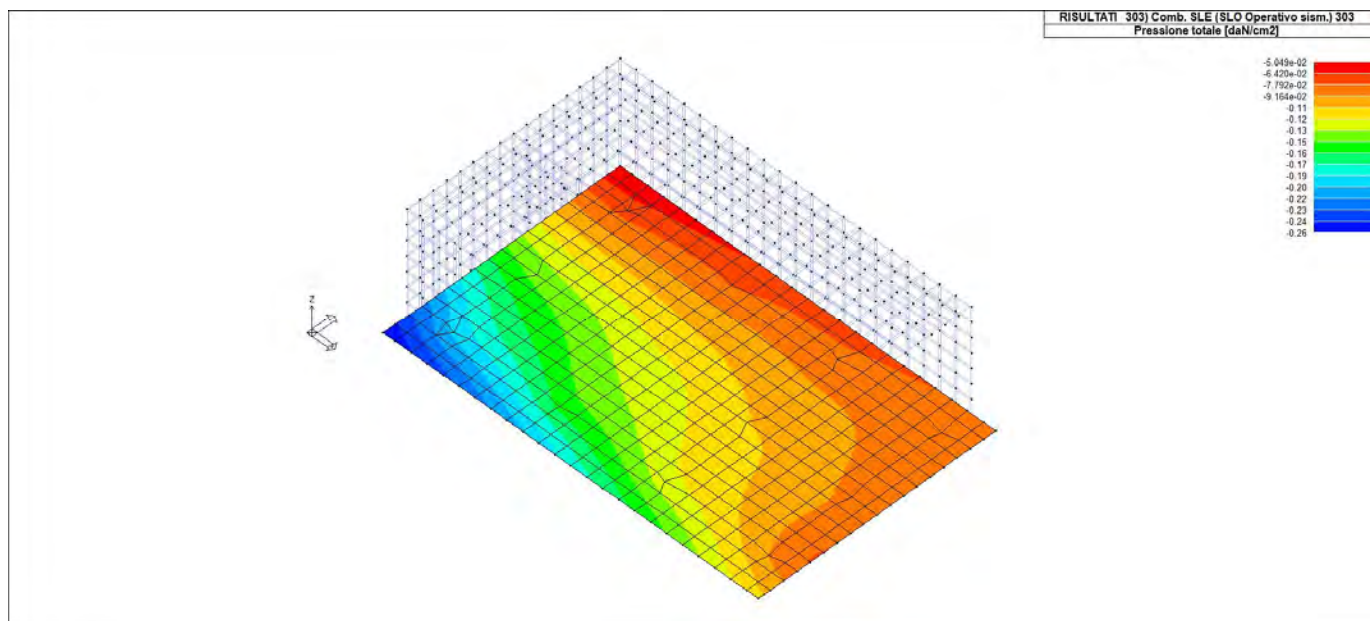


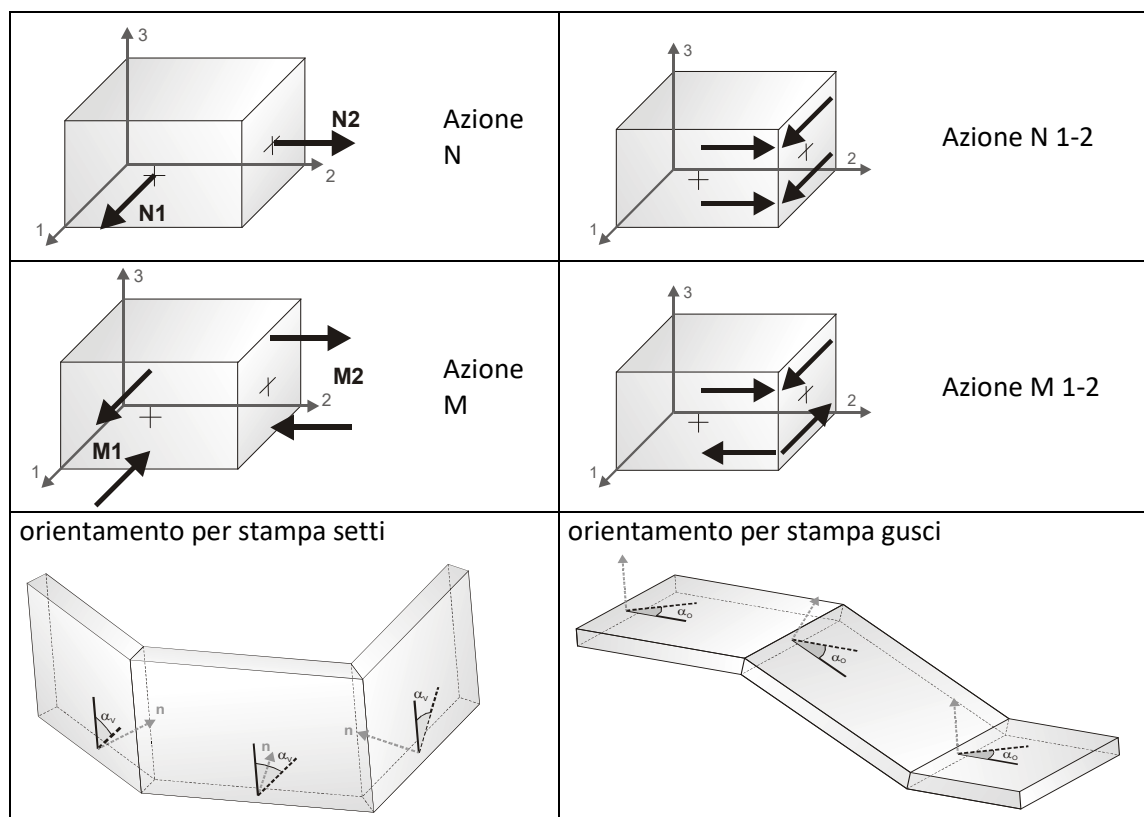
Figura 74 - RIS_PRESSIONI_303_Comb SLE SLO Operativo sism 303

15 RISULTATI ELEMENTI TIPO SHELL

15.1 LEGENDA RISULTATI ELEMENTI TIPO SHELL

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo shell, è possibile in relazione alle tabelle sottoriportate.

Per ogni elemento, e per ogni combinazione(o caso di carico) vengono riportati i risultati più significativi.



In particolare vengono riportati in ogni nodo di un elemento per ogni combinazione:

tensione di Von Mises		(valore riassuntivo del complessivo stato di sollecitazione)
N max		sforzo membranale principale massimo
N min		sforzo membranale principale minimo
M max		sforzo flessionale principale massimo
M min		sforzo flessionale principale minimo
N1	N2	sforzi membranali e flessionali in direzione locale 1 e 2 dell'elemento (lo sforzo 2-1 è uguale allo sforzo 1-2 per la reciprocità delle tensioni tangenziali)
N1-2	M1	
M2	M1-2	

I suddetti risultati possono a scelta del progettista essere preceduti o sostituiti da valori di sollecitazione non più riferiti al sistema locale dell'elemento ma al sistema globale.

In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi.

I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_0 attorno all'asse Z per i gusci e ruotata di α_v attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se α_v è zero, l'asse '1-1 rappresenta la verticale e l'asse '2-2 l'orizzontale

contenuta nel setto.

Le azioni sui setti possono essere espresse anche con formato macro, cioè riferite all'intero macroelemento.

In particolare vengono riportati per ogni quota Z dei nodi e per ogni combinazione i seguenti valori:

N memb.	Azione membranale complessiva agente sulla parete in direzione Z
V memb.	Azione complessiva di taglio agente nel piano del macroelemento
V orto	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
M memb.	Azione flessionale complessiva agente nel piano del macroelemento
M orto	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
T	Azione torsionale complessiva agente nel piano orizzontale

Macro	Tipo	Angolo 1-Z (gradi)
1	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
1	100	0.0	-6.845e+04	-1.765e+04	1.013e+04	1.912e+06	-2.337e+06	-1.178e+05
1	100	65.62	-6.911e+04	-1.882e+04	1.013e+04	1.215e+06	-1.680e+06	-1.260e+05
1	100	131.25	-6.291e+04	-1.822e+04	8589.44	8.133e+05	-1.115e+06	-4719.98
1	100	196.88	-5.706e+04	-1.776e+04	6559.33	7.206e+05	-6.889e+05	7.452e+04
1	100	262.50	-5.130e+04	-1.748e+04	4715.05	7.117e+05	-3.828e+05	1.253e+05
1	100	328.12	-4.544e+04	-1.729e+04	3059.47	6.508e+05	-1.841e+05	1.521e+05
1	100	393.75	-3.938e+04	-1.708e+04	1484.03	4.481e+05	-8.817e+04	1.604e+05
1	100	459.38	-3.301e+04	-1.677e+04	-113.02	3.100e+04	-9.703e+04	1.528e+05
1	100	525.00	-2.618e+04	-1.645e+04	-1769.15	-6.989e+05	-2.124e+05	9.567e+04
1	109	0.0	-1.066e+05	-1.107e+04	-1241.89	-2.200e+06	-2.047e+05	-1.599e+05
1	109	65.62	-1.075e+05	-8684.95	-1241.89	-2.230e+06	-2.994e+05	-3.028e+05
1	109	131.25	-9.875e+04	-7187.29	-2559.31	-2.153e+06	-4.765e+05	-2.318e+05
1	109	196.88	-8.996e+04	-6623.77	-2871.27	-2.075e+06	-6.681e+05	-1.726e+05
1	109	262.50	-8.109e+04	-6318.89	-2700.43	-2.026e+06	-8.456e+05	-9.836e+04
1	109	328.12	-7.214e+04	-6042.11	-2408.09	-2.019e+06	-1.004e+06	-7932.77
1	109	393.75	-6.310e+04	-5652.92	-2155.67	-2.066e+06	-1.146e+06	9.560e+04
1	109	459.38	-5.392e+04	-5027.99	-2055.44	-2.176e+06	-1.280e+06	2.007e+05
1	109	525.00	-4.457e+04	-4357.56	-2253.79	-2.372e+06	-1.406e+06	2.096e+05
1	126	0.0	-9.532e+04	-2.553e+04	967.92	4.148e+06	-1.208e+06	-1.342e+05
1	126	65.62	-9.614e+04	-2.603e+04	967.92	3.063e+06	-1.161e+06	-2.840e+05
1	126	131.25	-8.780e+04	-2.494e+04	1041.43	2.253e+06	-1.092e+06	-2.146e+05
1	126	196.88	-7.978e+04	-2.424e+04	803.73	1.740e+06	-1.045e+06	-1.373e+05
1	126	262.50	-7.180e+04	-2.380e+04	789.14	1.299e+06	-9.986e+05	-5.037e+04
1	126	328.12	-6.372e+04	-2.347e+04	945.42	8.002e+05	-9.420e+05	3.922e+04
1	126	393.75	-5.541e+04	-2.308e+04	1161.04	1.602e+05	-8.714e+05	1.255e+05
1	126	459.38	-4.679e+04	-2.252e+04	1332.72	-6.860e+05	-7.873e+05	1.975e+05
1	126	525.00	-3.772e+04	-2.196e+04	1335.75	-1.825e+06	-6.839e+05	1.754e+05
1	133	0.0	-1.037e+05	-1.269e+04	-3487.23	-9.679e+05	1.523e+05	-1.434e+05
1	133	65.62	-1.045e+05	-1.028e+04	-3487.23	-1.140e+06	-9.034e+04	-3.129e+05
1	133	131.25	-9.569e+04	-8771.62	-4307.94	-1.222e+06	-3.817e+05	-2.700e+05
1	133	196.88	-8.681e+04	-8196.87	-4142.86	-1.310e+06	-6.568e+05	-2.227e+05
1	133	262.50	-7.786e+04	-7884.57	-3517.90	-1.428e+06	-8.886e+05	-1.507e+05
1	133	328.12	-6.883e+04	-7607.28	-2781.79	-1.586e+06	-1.073e+06	-5.576e+04
1	133	393.75	-5.971e+04	-7231.31	-2081.60	-1.790e+06	-1.211e+06	5.643e+04
1	133	459.38	-5.048e+04	-6641.61	-1516.53	-2.046e+06	-1.310e+06	1.725e+05
1	133	525.00	-4.110e+04	-6008.93	-1242.84	-2.372e+06	-1.368e+06	1.978e+05

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	186	0.0	-7.073e+04	-1.510e+04	7574.26	7.261e+05	-1.817e+06	-1.209e+05
1	186	65.62	-7.143e+04	-1.543e+04	7574.26	2.495e+05	-1.328e+06	-1.487e+05
1	186	131.25	-6.514e+04	-1.470e+04	6101.50	1.742e+04	-9.281e+05	-3.970e+04
1	186	196.88	-5.910e+04	-1.425e+04	4503.94	9356.67	-6.362e+05	3.237e+04
1	186	262.50	-5.310e+04	-1.400e+04	3147.07	5.658e+04	-4.320e+05	8.421e+04
1	186	328.12	-4.702e+04	-1.381e+04	1955.49	5.602e+04	-3.049e+05	1.197e+05
1	186	393.75	-4.076e+04	-1.359e+04	817.27	-6.234e+04	-2.523e+05	1.427e+05
1	186	459.38	-3.425e+04	-1.324e+04	-363.39	-3.571e+05	-2.768e+05	1.532e+05
1	186	525.00	-2.734e+04	-1.289e+04	-1640.49	-9.110e+05	-3.801e+05	1.086e+05
1	191	0.0	-8.013e+04	-8747.69	-463.00	-1.610e+06	-2.420e+05	-1.216e+05
1	191	65.62	-8.080e+04	-6999.84	-463.00	-1.638e+06	-2.823e+05	-2.240e+05
1	191	131.25	-7.413e+04	-5881.19	-1502.64	-1.576e+06	-3.877e+05	-1.662e+05
1	191	196.88	-6.741e+04	-5457.25	-1798.89	-1.505e+06	-5.081e+05	-1.198e+05
1	191	262.50	-6.065e+04	-5228.97	-1730.19	-1.454e+06	-6.219e+05	-6.426e+04
1	191	328.12	-5.381e+04	-5024.79	-1564.66	-1.436e+06	-7.248e+05	1618.96
1	191	393.75	-4.690e+04	-4740.15	-1423.42	-1.463e+06	-8.188e+05	7.577e+04
1	191	459.38	-3.988e+04	-4283.47	-1390.38	-1.546e+06	-9.089e+05	1.500e+05
1	191	525.00	-3.271e+04	-3791.99	-1573.29	-1.708e+06	-9.962e+05	1.532e+05
1	200	0.0	-7.260e+04	-1.839e+04	1010.21	2.622e+06	-9.109e+05	-1.044e+05
1	200	65.62	-7.325e+04	-1.856e+04	1010.21	1.891e+06	-8.569e+05	-2.114e+05
1	200	131.25	-6.683e+04	-1.771e+04	897.85	1.362e+06	-7.982e+05	-1.548e+05
1	200	196.88	-6.063e+04	-1.720e+04	651.11	1.038e+06	-7.593e+05	-9.633e+04
1	200	262.50	-5.445e+04	-1.689e+04	596.19	7.629e+05	-7.238e+05	-3.226e+04
1	200	328.12	-4.820e+04	-1.664e+04	671.02	4.440e+05	-6.834e+05	3.306e+04
1	200	393.75	-4.178e+04	-1.636e+04	787.71	2.168e+04	-6.355e+05	9.573e+04
1	200	459.38	-3.513e+04	-1.595e+04	868.39	-5.522e+05	-5.806e+05	1.479e+05
1	200	525.00	-2.814e+04	-1.553e+04	819.74	-1.343e+06	-5.151e+05	1.304e+05
1	203	0.0	-7.818e+04	-9827.47	-1959.89	-7.882e+05	-4037.20	-1.105e+05
1	203	65.62	-7.881e+04	-8066.10	-1959.89	-9.116e+05	-1.429e+05	-2.306e+05
1	203	131.25	-7.209e+04	-6937.42	-2668.39	-9.550e+05	-3.245e+05	-1.917e+05
1	203	196.88	-6.532e+04	-6505.99	-2646.62	-9.952e+05	-5.006e+05	-1.532e+05
1	203	262.50	-5.849e+04	-6272.76	-2275.17	-1.055e+06	-6.505e+05	-9.913e+04
1	203	328.12	-5.161e+04	-6068.23	-1813.79	-1.147e+06	-7.704e+05	-3.026e+04
1	203	393.75	-4.465e+04	-5792.40	-1374.04	-1.278e+06	-8.619e+05	4.966e+04
1	203	459.38	-3.759e+04	-5359.22	-1031.11	-1.459e+06	-9.289e+05	1.312e+05
1	203	525.00	-3.040e+04	-4892.90	-899.32	-1.708e+06	-9.711e+05	1.453e+05
1	206	0.0	-7.494e+04	-9508.46	2417.15	-1.644e+06	-7.563e+05	-1.251e+05
1	206	65.62	-7.568e+04	-8179.17	2417.15	-1.674e+06	-6.066e+05	-1.905e+05
1	206	131.25	-6.919e+04	-7183.94	1097.41	-1.567e+06	-5.404e+05	-1.076e+05
1	206	196.88	-6.271e+04	-6784.92	374.10	-1.408e+06	-5.181e+05	-5.099e+04
1	206	262.50	-5.620e+04	-6571.99	-1.71	-1.251e+06	-5.182e+05	1788.91
1	206	328.12	-4.963e+04	-6392.14	-259.84	-1.131e+06	-5.351e+05	5.373e+04
1	206	393.75	-4.295e+04	-6148.07	-517.58	-1.079e+06	-5.690e+05	1.050e+05
1	206	459.38	-3.611e+04	-5754.25	-857.43	-1.121e+06	-6.243e+05	1.506e+05
1	206	525.00	-2.904e+04	-5326.62	-1365.55	-1.305e+06	-7.023e+05	1.317e+05
1	210	0.0	-7.155e+04	-1.357e+04	3048.68	1.522e+05	-1.039e+06	-1.176e+05
1	210	65.62	-7.229e+04	-1.306e+04	3048.68	-1.743e+05	-8.487e+05	-1.845e+05
1	210	131.25	-6.590e+04	-1.218e+04	2121.43	-3.169e+05	-7.125e+05	-1.022e+05
1	210	196.88	-5.964e+04	-1.174e+04	1420.27	-3.239e+05	-6.222e+05	-4.062e+04
1	210	262.50	-5.338e+04	-1.149e+04	993.39	-3.046e+05	-5.585e+05	1.552e+04
1	210	328.12	-4.705e+04	-1.129e+04	698.26	-3.275e+05	-5.139e+05	6.691e+04
1	210	393.75	-4.057e+04	-1.105e+04	431.96	-4.413e+05	-4.868e+05	1.130e+05
1	210	459.38	-3.389e+04	-1.068e+04	114.95	-6.902e+05	-4.796e+05	1.488e+05
1	210	525.00	-2.690e+04	-1.029e+04	-332.54	-1.140e+06	-4.917e+05	1.212e+05
1	214	0.0	-7.396e+04	-1.005e+04	1668.70	-1.234e+06	-6.373e+05	-1.196e+05
1	214	65.62	-7.469e+04	-8712.30	1668.70	-1.311e+06	-5.369e+05	-1.938e+05
1	214	131.25	-6.817e+04	-7712.05	514.53	-1.257e+06	-5.088e+05	-1.203e+05
1	214	196.88	-6.166e+04	-7309.29	-49.76	-1.153e+06	-5.144e+05	-6.770e+04
1	214	262.50	-5.513e+04	-7093.88	-274.20	-1.051e+06	-5.326e+05	-1.564e+04
1	214	328.12	-4.852e+04	-6913.87	-384.41	-9.870e+05	-5.579e+05	3.779e+04
1	214	393.75	-4.182e+04	-6674.20	-492.89	-9.865e+05	-5.906e+05	9.198e+04
1	214	459.38	-3.496e+04	-6292.13	-677.79	-1.077e+06	-6.342e+05	1.412e+05
1	214	525.00	-2.788e+04	-5877.08	-1028.57	-1.305e+06	-6.897e+05	1.278e+05
1	215	0.0	-7.357e+04	-9539.17	2488.29	-1.551e+06	-7.623e+05	-1.229e+05
1	215	65.62	-7.431e+04	-8226.17	2488.29	-1.585e+06	-6.078e+05	-1.859e+05
1	215	131.25	-6.782e+04	-7242.99	1181.56	-1.482e+06	-5.360e+05	-1.037e+05
1	215	196.88	-6.134e+04	-6849.65	466.48	-1.325e+06	-5.077e+05	-4.797e+04
1	215	262.50	-5.484e+04	-6641.43	96.94	-1.170e+06	-5.013e+05	3419.97
1	215	328.12	-4.826e+04	-6468.16	-153.68	-1.052e+06	-5.111e+05	5.339e+04
1	215	393.75	-4.159e+04	-6235.48	-400.22	-1.000e+06	-5.373e+05	1.022e+05

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	215	459.38	-3.475e+04	-5860.97	-722.44	-1.044e+06	-5.837e+05	1.449e+05
1	215	525.00	-2.769e+04	-5452.84	-1204.52	-1.234e+06	-6.517e+05	1.256e+05
1	232	0.0	-4.403e+04	3.955e+04	2.408e+04	-2.706e+07	-5.314e+06	-3.871e+05
1	232	65.62	-4.478e+04	4.086e+04	2.408e+04	-2.709e+07	-5.152e+06	-8.049e+04
1	232	131.25	-3.987e+04	4.025e+04	2.250e+04	-2.343e+07	-3.695e+06	5.352e+05
1	232	196.88	-3.476e+04	3.857e+04	2.073e+04	-1.925e+07	-2.333e+06	9.657e+05
1	232	262.50	-2.997e+04	3.665e+04	1.897e+04	-1.507e+07	-9.836e+05	1.163e+06
1	232	328.12	-2.532e+04	3.563e+04	1.703e+04	-1.103e+07	1.793e+05	1.191e+06
1	232	393.75	-1.973e+04	3.523e+04	1.488e+04	-6.613e+06	1.217e+06	1.063e+06
1	232	459.38	-1.500e+04	3.341e+04	1.251e+04	-3.305e+06	2.075e+06	7.876e+05
1	232	525.00	-8535.85	3.307e+04	8517.34	1.190e+05	2.777e+06	3.322e+05
1	235	0.0	-1.031e+05	-5.862e+04	-1.911e+04	2.395e+07	3.790e+06	1.413e+05
1	235	65.62	-1.038e+05	-5.731e+04	-1.911e+04	2.392e+07	3.936e+06	-2.914e+05
1	235	131.25	-9.576e+04	-5.474e+04	-2.013e+04	2.047e+07	2.623e+06	-7.427e+05
1	235	196.88	-8.792e+04	-5.227e+04	-1.980e+04	1.660e+07	1.317e+06	-1.062e+06
1	235	262.50	-7.970e+04	-4.993e+04	-1.877e+04	1.273e+07	-1.896e+04	-1.156e+06
1	235	328.12	-7.121e+04	-4.857e+04	-1.734e+04	8.927e+06	-1.201e+06	-1.084e+06
1	235	393.75	-6.344e+04	-4.770e+04	-1.568e+04	4.613e+06	-2.291e+06	-8.582e+05
1	235	459.38	-5.451e+04	-4.513e+04	-1.395e+04	1.216e+06	-3.243e+06	-4.979e+05
1	235	525.00	-4.684e+04	-4.398e+04	-1.093e+04	-2.587e+06	-4.081e+06	-8.097e+04
1	241	0.0	-1.079e+05	-2.384e+04	-1.740e+04	1.141e+07	3.271e+06	5.677e+04
1	241	65.62	-1.086e+05	-2.253e+04	-1.740e+04	1.137e+07	3.421e+06	-2.980e+05
1	241	131.25	-1.002e+05	-1.933e+04	-1.793e+04	9.340e+06	2.221e+06	-6.809e+05
1	241	196.88	-9.132e+04	-1.905e+04	-1.759e+04	7.313e+06	1.019e+06	-9.156e+05
1	241	262.50	-8.223e+04	-1.955e+04	-1.662e+04	5.070e+06	-1.467e+05	-1.003e+06
1	241	328.12	-7.282e+04	-2.083e+04	-1.536e+04	2.818e+06	-1.210e+06	-9.386e+05
1	241	393.75	-6.416e+04	-2.072e+04	-1.390e+04	-1.546e+04	-2.095e+06	-7.337e+05
1	241	459.38	-5.458e+04	-2.098e+04	-1.127e+04	-2.146e+06	-2.957e+06	-4.027e+05
1	241	525.00	-4.451e+04	-2.130e+04	-9686.87	-3.855e+06	-3.698e+06	-2.594e+04
1	264	0.0	-5.127e+04	2.690e+04	1.864e+04	-2.056e+07	-4.189e+06	-3.202e+05
1	264	65.62	-5.201e+04	2.822e+04	1.864e+04	-2.059e+07	-4.029e+06	-1.065e+05
1	264	131.25	-4.669e+04	2.803e+04	1.716e+04	-1.781e+07	-2.915e+06	3.773e+05
1	264	196.88	-4.127e+04	2.697e+04	1.570e+04	-1.465e+07	-1.878e+06	7.142e+05
1	264	262.50	-3.608e+04	2.566e+04	1.431e+04	-1.149e+07	-8.570e+05	8.766e+05
1	264	328.12	-3.096e+04	2.498e+04	1.279e+04	-8.433e+06	-3873.30	9.103e+05
1	264	393.75	-2.524e+04	2.475e+04	1.107e+04	-5.190e+06	7.776e+05	8.240e+05
1	264	459.38	-1.994e+04	2.350e+04	9161.62	-2.680e+06	1.416e+06	6.243e+05
1	264	525.00	-1.341e+04	2.337e+04	6051.11	-1.777e+05	1.928e+06	2.737e+05
1	267	0.0	-9.587e+04	-4.598e+04	-1.366e+04	1.746e+07	2.665e+06	7.442e+04
1	267	65.62	-9.661e+04	-4.467e+04	-1.366e+04	1.742e+07	2.813e+06	-2.654e+05
1	267	131.25	-8.894e+04	-4.252e+04	-1.479e+04	1.485e+07	1.843e+06	-5.847e+05
1	267	196.88	-8.141e+04	-4.067e+04	-1.477e+04	1.200e+07	8.627e+05	-8.101e+05
1	267	262.50	-7.359e+04	-3.895e+04	-1.411e+04	9.154e+06	-1.456e+05	-8.698e+05
1	267	328.12	-6.557e+04	-3.792e+04	-1.309e+04	6.330e+06	-1.018e+06	-8.035e+05
1	267	393.75	-5.794e+04	-3.722e+04	-1.187e+04	3.190e+06	-1.852e+06	-6.197e+05
1	267	459.38	-4.957e+04	-3.522e+04	-1.061e+04	5.917e+05	-2.583e+06	-3.345e+05
1	267	525.00	-4.197e+04	-3.427e+04	-8460.15	-2.290e+06	-3.231e+06	-2.241e+04
1	273	0.0	-9.943e+04	-2.066e+04	-1.241e+04	8.312e+06	2.277e+06	1.460e+04
1	273	65.62	-1.002e+05	-1.934e+04	-1.241e+04	8.278e+06	2.428e+06	-2.710e+05
1	273	131.25	-9.223e+04	-1.677e+04	-1.318e+04	6.777e+06	1.543e+06	-5.363e+05
1	273	196.88	-8.391e+04	-1.649e+04	-1.314e+04	5.274e+06	6.415e+05	-7.028e+05
1	273	262.50	-7.543e+04	-1.676e+04	-1.251e+04	3.613e+06	-2.312e+06	-7.554e+05
1	273	328.12	-6.670e+04	-1.759e+04	-1.162e+04	1.937e+06	-1.022e+06	-6.947e+05
1	273	393.75	-5.841e+04	-1.742e+04	-1.056e+04	1.185e+05	-1.713e+06	-5.282e+05
1	273	459.38	-4.955e+04	-1.746e+04	-8668.38	-1.776e+06	-2.376e+06	-2.676e+05
1	273	525.00	-4.032e+04	-1.752e+04	-7628.45	-3.165e+06	-2.951e+06	1.294e+04
1	296	0.0	-5.700e+04	1.738e+04	1.448e+04	-1.560e+07	-3.305e+06	-2.690e+05
1	296	65.62	-5.775e+04	1.869e+04	1.448e+04	-1.563e+07	-3.146e+06	-1.267e+05
1	296	131.25	-5.213e+04	1.881e+04	1.304e+04	-1.355e+07	-2.301e+06	2.533e+05
1	296	196.88	-4.644e+04	1.814e+04	1.177e+04	-1.118e+07	-1.524e+06	5.176e+05
1	296	262.50	-4.091e+04	1.723e+04	1.064e+04	-8.797e+06	-7.651e+05	6.513e+05
1	296	328.12	-3.542e+04	1.678e+04	9446.88	-6.503e+06	-1.343e+05	6.891e+05
1	296	393.75	-2.945e+04	1.667e+04	8112.98	-4.093e+06	4.386e+05	6.376e+05
1	296	459.38	-2.376e+04	1.585e+04	6610.05	-2.246e+06	9.003e+05	5.005e+05
1	296	525.00	-1.710e+04	1.587e+04	4177.72	-4.450e+05	1.262e+06	2.354e+05
1	299	0.0	-9.013e+04	-3.645e+04	-9500.55	1.250e+07	1.781e+06	2.314e+04
1	299	65.62	-9.088e+04	-3.514e+04	-9500.55	1.246e+07	1.931e+06	-2.452e+05
1	299	131.25	-8.351e+04	-3.330e+04	-1.067e+04	1.059e+07	1.229e+06	-4.608e+05
1	299	196.88	-7.624e+04	-3.184e+04	-1.084e+04	8.526e+06	5.089e+05	-6.136e+05
1	299	262.50	-6.876e+04	-3.051e+04	-1.045e+04	6.458e+06	-2.375e+05	-6.445e+05

MANDATARIA MANDANTE PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 154 di 378

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
1	299	328.12	-6.111e+04	-2.971e+04	-9754.25	4.400e+06	-8.879e+05	-5.823e+05
1	299	393.75	-5.372e+04	-2.914e+04	-8913.43	2.093e+06	-1.513e+06	-4.333e+05
1	299	459.38	-4.575e+04	-2.758e+04	-8054.92	1.573e+05	-2.068e+06	-2.107e+05
1	299	525.00	-3.828e+04	-2.678e+04	-6586.75	-2.023e+06	-2.566e+06	1.586e+04
1	305	0.0	-9.275e+04	-1.791e+04	-8569.79	5.822e+06	1.494e+06	-2.044e+04
1	305	65.62	-9.350e+04	-1.660e+04	-8569.79	5.787e+06	1.646e+06	-2.488e+05
1	305	131.25	-8.593e+04	-1.444e+04	-9476.04	4.693e+06	1.007e+06	-4.247e+05
1	305	196.88	-7.808e+04	-1.412e+04	-9631.67	3.611e+06	3.457e+05	-5.340e+05
1	305	262.50	-7.012e+04	-1.426e+04	-9261.37	2.411e+06	-3.004e+05	-5.599e+05
1	305	328.12	-6.195e+04	-1.482e+04	-8664.51	1.191e+06	-8.899e+05	-5.020e+05
1	305	393.75	-5.407e+04	-1.463e+04	-7940.98	-3.253e+05	-1.410e+06	-3.659e+05
1	305	459.38	-4.573e+04	-1.454e+04	-6623.90	-1.574e+06	-1.914e+06	-1.614e+05
1	305	525.00	-3.707e+04	-1.446e+04	-5977.27	-2.662e+06	-2.358e+06	4.175e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.086e+05	-5.862e+04	-2.013e+04	-2.709e+07	-5.314e+06	-1.156e+06
			-8535.85	4.086e+04	2.408e+04	2.395e+07	3.936e+06	1.191e+06

Macro	Tipo	Angolo 1-Z (gradi)
2	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
2	42	0.0	-2.202e+05	3.951e+04	-841.87	6.609e+06	1.661e+05	1.497e+04
2	42	65.62	-2.170e+05	4.569e+04	-755.99	6.995e+06	1.372e+05	1.337e+04
2	42	131.25	-2.037e+05	4.405e+04	-479.49	6.699e+06	1.050e+05	4935.63
2	42	196.88	-1.861e+05	4.433e+04	-424.86	3.531e+06	7.731e+04	-1395.12
2	42	262.50	-1.692e+05	4.433e+04	-390.71	9.597e+05	5.187e+04	-6285.02
2	42	328.12	-1.530e+05	4.418e+04	-364.60	-1.130e+06	2.809e+04	-9649.08
2	42	393.75	-1.373e+05	4.412e+04	-347.83	-2.810e+06	5354.15	-1.125e+04
2	42	459.38	-1.222e+05	4.410e+04	-341.48	-4.043e+06	-1.699e+04	-1.075e+04
2	42	525.00	-1.084e+05	4.302e+04	-356.97	-4.415e+06	-4.008e+04	-5780.11
2	70	0.0	-2.205e+05	3.535e+04	-849.24	8.068e+06	1.676e+05	1.482e+04
2	70	65.62	-2.173e+05	4.162e+04	-763.94	8.237e+06	1.383e+05	1.310e+04
2	70	131.25	-2.042e+05	4.027e+04	-486.01	7.767e+06	1.056e+05	4637.71
2	70	196.88	-1.865e+05	4.114e+04	-430.48	4.404e+06	7.758e+04	-1703.21
2	70	262.50	-1.697e+05	4.183e+04	-395.92	1.658e+06	5.178e+04	-6572.93
2	70	328.12	-1.534e+05	4.238e+04	-369.65	-5.862e+05	2.767e+04	-9881.82
2	70	393.75	-1.377e+05	4.293e+04	-352.89	-2.402e+06	4601.15	-1.139e+04
2	70	459.38	-1.226e+05	4.336e+04	-346.66	-3.754e+06	-1.808e+04	-1.076e+04
2	70	525.00	-1.086e+05	4.239e+04	-362.31	-4.215e+06	-4.151e+04	-5671.45
2	99	0.0	-1.289e+05	-115.53	1747.29	3.233e+05	-3.285e+05	-7471.06
2	99	65.62	-1.261e+05	198.75	1592.51	-1.614e+06	-2.525e+05	2.943e+04
2	99	131.25	-1.157e+05	-10.68	1237.79	-4.569e+06	-1.679e+05	5.768e+04
2	99	196.88	-1.070e+05	355.67	1241.78	-5.569e+06	-8.483e+04	7.486e+04
2	99	262.50	-9.958e+04	559.13	1251.49	-5.654e+06	-1391.31	8.019e+04
2	99	328.12	-9.270e+04	749.12	1264.37	-5.295e+06	8.261e+04	7.373e+04
2	99	393.75	-8.607e+04	1064.22	1290.78	-4.729e+06	1.678e+05	5.521e+04
2	99	459.38	-7.946e+04	1580.54	1340.62	-4.128e+06	2.552e+05	2.466e+04
2	99	525.00	-7.257e+04	2022.63	1445.42	-3.696e+06	3.470e+05	-1.192e+04
2	133	0.0	-1.810e+05	6759.21	-4944.87	1.624e+06	1.112e+06	8.338e+04
2	133	65.62	-1.772e+05	8162.39	-4731.51	-4.968e+05	8.422e+05	2.557e+04
2	133	131.25	-1.636e+05	7745.55	-3774.36	-3.863e+06	5.927e+05	-7.800e+04
2	133	196.88	-1.512e+05	8275.47	-3481.58	-5.522e+06	3.612e+05	-1.377e+05
2	133	262.50	-1.402e+05	8584.47	-3342.58	-6.073e+06	1.377e+05	-1.669e+05
2	133	328.12	-1.299e+05	8855.89	-3290.67	-6.052e+06	-8.232e+04	-1.670e+05
2	133	393.75	-1.201e+05	9272.67	-3307.59	-5.730e+06	-3.023e+05	-1.379e+05
2	133	459.38	-1.103e+05	9900.99	-3391.79	-5.287e+06	-5.255e+05	-7.911e+04
2	133	525.00	-1.005e+05	1.021e+04	-3597.82	-4.873e+06	-7.568e+05	5469.26
2	158	0.0	-1.640e+05	2.807e+04	-635.38	4.810e+06	1.302e+05	1.222e+04
2	158	65.62	-1.614e+05	3.242e+04	-578.00	4.910e+06	1.063e+05	1.118e+04
2	158	131.25	-1.512e+05	3.128e+04	-378.82	4.445e+06	8.101e+04	3790.02
2	158	196.88	-1.380e+05	3.153e+04	-332.92	2.146e+06	5.928e+04	-1433.05
2	158	262.50	-1.255e+05	3.156e+04	-305.11	3.320e+05	3.933e+04	-5352.59

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	158	328.12	-1.134e+05	3.148e+04	-285.13	-1.113e+06	2.066e+04	-7946.96
2	158	393.75	-1.018e+05	3.146e+04	-272.90	-2.254e+06	2751.61	-9057.84
2	158	459.38	-9.059e+04	3.149e+04	-268.63	-3.076e+06	-1.487e+04	-8448.58
2	158	525.00	-8.022e+04	3.075e+04	-280.20	-3.299e+06	-3.304e+04	-4328.09
2	172	0.0	-1.642e+05	2.530e+04	-640.29	5.783e+06	1.313e+05	1.212e+04
2	172	65.62	-1.616e+05	2.970e+04	-583.30	5.738e+06	1.070e+05	1.100e+04
2	172	131.25	-1.515e+05	2.877e+04	-383.17	5.157e+06	8.144e+04	3591.42
2	172	196.88	-1.383e+05	2.940e+04	-336.67	2.729e+06	5.946e+04	-1638.44
2	172	262.50	-1.258e+05	2.989e+04	-308.58	7.977e+05	3.928e+04	-5544.53
2	172	328.12	-1.137e+05	3.027e+04	-288.51	-7.501e+05	2.038e+04	-8102.12
2	172	393.75	-1.021e+05	3.067e+04	-276.27	-1.982e+06	2249.61	-9151.12
2	172	459.38	-9.081e+04	3.100e+04	-272.08	-2.884e+06	-1.560e+04	-8455.53
2	172	525.00	-8.040e+04	3.033e+04	-283.76	-3.166e+06	-3.399e+04	-4255.65
2	185	0.0	-1.347e+05	3806.25	954.80	8.980e+05	-1.639e+05	1481.90
2	185	65.62	-1.319e+05	4597.89	852.24	-8.213e+05	-1.265e+05	2.623e+04
2	185	131.25	-1.214e+05	4348.76	658.92	-3.515e+06	-8.074e+04	4.004e+04
2	185	196.88	-1.121e+05	4736.27	688.62	-4.671e+06	-3.453e+04	4.864e+04
2	185	262.50	-1.040e+05	4954.81	709.46	-4.968e+06	1.275e+04	5.031e+04
2	185	328.12	-9.642e+04	5149.56	725.38	-4.832e+06	6.086e+04	4.496e+04
2	185	393.75	-8.912e+04	5459.29	746.06	-4.476e+06	1.100e+05	3.243e+04
2	185	459.38	-8.189e+04	5941.65	779.48	-4.047e+06	1.606e+05	1.279e+04
2	185	525.00	-7.453e+04	6232.26	845.88	-3.685e+06	2.141e+05	-9371.25
2	203	0.0	-1.378e+05	6237.54	-3370.71	1.486e+06	7.610e+05	5.783e+04
2	203	65.62	-1.349e+05	7396.12	-3228.34	-8.436e+04	5.763e+05	1.931e+04
2	203	131.25	-1.244e+05	7084.57	-2575.40	-2.596e+06	4.062e+05	-5.150e+04
2	203	196.88	-1.147e+05	7490.44	-2370.74	-3.889e+06	2.485e+05	-9.231e+04
2	203	262.50	-1.061e+05	7725.54	-2273.02	-4.357e+06	9.655e+04	-1.124e+05
2	203	328.12	-9.805e+04	7927.85	-2235.85	-4.394e+06	-5.295e+04	-1.129e+05
2	203	393.75	-9.029e+04	8234.15	-2246.07	-4.200e+06	-2.024e+05	-9.350e+04
2	203	459.38	-8.263e+04	8688.99	-2302.17	-3.905e+06	-3.539e+05	-5.402e+04
2	203	525.00	-7.495e+04	8873.53	-2440.76	-3.605e+06	-5.108e+05	3171.49
2	209	0.0	-1.368e+05	8340.92	-631.97	1.730e+06	1.708e+05	2.060e+04
2	209	65.62	-1.339e+05	9609.16	-637.96	2.522e+05	1.285e+05	2.132e+04
2	209	131.25	-1.233e+05	9343.86	-517.02	-2.151e+06	9.558e+04	5046.85
2	209	196.88	-1.134e+05	9745.98	-430.18	-3.453e+06	6.725e+04	-4046.15
2	209	262.50	-1.045e+05	9971.65	-384.57	-3.976e+06	4.148e+04	-1.002e+04
2	209	328.12	-9.615e+04	1.016e+04	-362.18	-4.087e+06	1.708e+04	-1.324e+04
2	209	393.75	-8.809e+04	1.044e+04	-353.37	-3.969e+06	-6686.42	-1.373e+04
2	209	459.38	-8.016e+04	1.085e+04	-353.30	-3.736e+06	-3.030e+04	-1.137e+04
2	209	525.00	-7.226e+04	1.095e+04	-363.47	-3.451e+06	-5.418e+04	-4314.86
2	210	0.0	-1.512e+05	1.938e+04	-617.44	4.012e+06	1.438e+05	1.518e+04
2	210	65.62	-1.484e+05	2.244e+04	-588.18	3.394e+06	1.128e+05	1.479e+04
2	210	131.25	-1.380e+05	2.180e+04	-427.76	2.069e+06	8.492e+04	3972.27
2	210	196.88	-1.262e+05	2.226e+04	-366.34	1.531e+05	6.090e+04	-2682.35
2	210	262.50	-1.151e+05	2.254e+04	-331.98	-1.165e+06	3.894e+04	-7308.78
2	210	328.12	-1.045e+05	2.275e+04	-311.59	-2.098e+06	1.825e+04	-1.004e+04
2	210	393.75	-9.432e+04	2.301e+04	-301.16	-2.756e+06	-1747.24	-1.080e+04
2	210	459.38	-8.440e+04	2.329e+04	-298.83	-3.173e+06	-2.153e+04	-9392.26
2	210	525.00	-7.500e+04	2.290e+04	-309.61	-3.200e+06	-4.172e+04	-4109.54
2	214	0.0	-1.402e+05	1.097e+04	-1169.66	2.305e+06	2.806e+05	2.648e+04
2	214	65.62	-1.373e+05	1.266e+04	-1137.46	1.028e+06	2.130e+05	1.905e+04
2	214	131.25	-1.267e+05	1.231e+04	-902.20	-1.122e+06	1.542e+05	-6630.10
2	214	196.88	-1.164e+05	1.273e+04	-798.94	-2.574e+06	1.013e+05	-2.138e+04
2	214	262.50	-1.069e+05	1.297e+04	-746.14	-3.289e+06	5.141e+04	-2.979e+04
2	214	328.12	-9.807e+04	1.316e+04	-721.52	-3.598e+06	3098.08	-3.228e+04
2	214	393.75	-8.949e+04	1.344e+04	-716.23	-3.666e+06	-4.468e+04	-2.885e+04
2	214	459.38	-8.108e+04	1.382e+04	-726.86	-3.590e+06	-9.275e+04	-1.930e+04
2	214	525.00	-7.283e+04	1.380e+04	-762.79	-3.379e+06	-1.421e+05	-2701.41
2	215	0.0	-1.403e+05	1.097e+04	-628.51	2.273e+06	1.644e+05	1.931e+04
2	215	65.62	-1.374e+05	1.266e+04	-626.11	1.000e+06	1.248e+05	1.976e+04
2	215	131.25	-1.268e+05	1.231e+04	-495.77	-1.146e+06	9.304e+04	4791.00
2	215	196.88	-1.164e+05	1.272e+04	-414.98	-2.595e+06	6.574e+04	-3721.43
2	215	262.50	-1.070e+05	1.296e+04	-372.05	-3.307e+06	4.088e+04	-9374.94
2	215	328.12	-9.815e+04	1.316e+04	-350.13	-3.614e+06	1.736e+04	-1.248e+04
2	215	393.75	-8.958e+04	1.343e+04	-340.94	-3.680e+06	-5510.42	-1.304e+04
2	215	459.38	-8.117e+04	1.382e+04	-340.33	-3.602e+06	-2.821e+04	-1.090e+04
2	215	525.00	-7.292e+04	1.380e+04	-350.65	-3.392e+06	-5.121e+04	-4265.98
2	221	0.0	-1.426e+05	5.774e+04	-8497.31	-2.440e+07	1.800e+06	1.181e+05
2	221	65.62	-1.376e+05	6.102e+04	-8458.95	-2.794e+07	1.764e+06	3.107e+04
2	221	131.25	-1.284e+05	5.808e+04	-7719.26	-2.568e+07	1.231e+06	-1.323e+05

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	221	196.88	-1.187e+05	5.710e+04	-7293.97	-2.338e+07	7.339e+05	-2.504e+05
2	221	262.50	-1.098e+05	5.520e+04	-6812.43	-2.086e+07	2.474e+05	-3.070e+05
2	221	328.12	-1.012e+05	5.257e+04	-6335.54	-1.835e+07	-1.472e+05	-3.057e+05
2	221	393.75	-9.269e+04	5.012e+04	-5818.15	-1.586e+07	-5.543e+05	-2.481e+05
2	221	459.38	-8.433e+04	4.768e+04	-5240.28	-1.349e+07	-9.236e+05	-1.264e+05
2	221	525.00	-7.616e+04	4.484e+04	-4587.87	-1.124e+07	-1.255e+06	2.777e+04
2	222	0.0	-1.380e+05	-3.580e+04	7240.29	2.895e+07	-1.472e+06	-7.945e+04
2	222	65.62	-1.371e+05	-3.569e+04	7206.73	2.994e+07	-1.514e+06	8458.36
2	222	131.25	-1.252e+05	-3.347e+04	6727.73	2.338e+07	-1.045e+06	1.419e+05
2	222	196.88	-1.141e+05	-3.165e+04	6464.01	1.819e+07	-6.024e+05	2.430e+05
2	222	262.50	-1.043e+05	-2.927e+04	6068.33	1.425e+07	-1.656e+05	2.882e+05
2	222	328.12	-9.513e+04	-2.626e+04	5635.27	1.112e+07	1.819e+05	2.808e+05
2	222	393.75	-8.646e+04	-2.325e+04	5136.27	8.497e+06	5.433e+05	2.221e+05
2	222	459.38	-7.801e+04	-2.005e+04	4559.61	6.284e+06	8.671e+05	1.046e+05
2	222	525.00	-6.967e+04	-1.724e+04	3886.57	4.460e+06	1.152e+06	-3.630e+04
2	235	0.0	-1.440e+05	-374.35	-3.453e+04	1.156e+07	6.983e+06	3.877e+05
2	235	65.62	-1.420e+05	783.74	-3.459e+04	1.113e+07	6.962e+06	-7.456e+04
2	235	131.25	-1.305e+05	1369.33	-3.169e+04	7.354e+06	4.793e+06	-7.119e+05
2	235	196.88	-1.194e+05	2321.49	-2.951e+04	4.572e+06	2.802e+06	-1.155e+06
2	235	262.50	-1.094e+05	3211.98	-2.756e+04	2.707e+06	9.509e+05	-1.330e+06
2	235	328.12	-1.001e+05	4281.59	-2.559e+04	1.283e+06	-8.474e+05	-1.269e+06
2	235	393.75	-9.109e+04	5452.14	-2.354e+04	2.186e+05	-2.433e+06	-9.894e+05
2	235	459.38	-8.218e+04	6665.41	-2.130e+04	-4.900e+05	-3.897e+06	-4.862e+05
2	235	525.00	-7.352e+04	7501.27	-1.934e+04	-9.454e+05	-5.224e+06	1.954e+05
2	241	0.0	-1.450e+05	2.764e+04	-3.105e+04	-4.877e+06	6.320e+06	3.562e+05
2	241	65.62	-1.416e+05	2.977e+04	-3.103e+04	-6.674e+06	6.297e+06	-1.616e+04
2	241	131.25	-1.310e+05	2.875e+04	-2.836e+04	-7.721e+06	4.347e+06	-5.873e+05
2	241	196.88	-1.204e+05	2.870e+04	-2.653e+04	-8.198e+06	2.557e+06	-9.935e+05
2	241	262.50	-1.107e+05	2.836e+04	-2.478e+04	-8.073e+06	8.420e+05	-1.167e+06
2	241	328.12	-1.016e+05	2.773e+04	-2.307e+04	-7.764e+06	-7.157e+05	-1.132e+06
2	241	393.75	-9.262e+04	2.725e+04	-2.127e+04	-7.153e+06	-2.157e+06	-8.973e+05
2	241	459.38	-8.383e+04	2.682e+04	-1.929e+04	-6.464e+06	-3.485e+06	-4.521e+05
2	241	525.00	-7.528e+04	2.590e+04	-1.707e+04	-5.680e+06	-4.693e+06	1.566e+05
2	253	0.0	-1.417e+05	4.433e+04	-6594.43	-1.674e+07	1.403e+06	9.397e+04
2	253	65.62	-1.374e+05	4.717e+04	-6566.25	-1.964e+07	1.366e+06	2.735e+04
2	253	131.25	-1.277e+05	4.500e+04	-5977.86	-1.855e+07	9.539e+05	-1.001e+05
2	253	196.88	-1.178e+05	4.442e+04	-5630.47	-1.732e+07	5.709e+05	-1.914e+05
2	253	262.50	-1.087e+05	4.316e+04	-5253.34	-1.570e+07	1.971e+05	-2.353e+05
2	253	328.12	-9.998e+04	4.137e+04	-4885.11	-1.395e+07	-1.083e+05	-2.347e+05
2	253	393.75	-9.143e+04	3.971e+04	-4490.32	-1.215e+07	-4.230e+05	-1.909e+05
2	253	459.38	-8.301e+04	3.809e+04	-4051.92	-1.038e+07	-7.079e+05	-9.797e+04
2	253	525.00	-7.477e+04	3.606e+04	-3567.65	-8.658e+06	-9.644e+05	1.793e+04
2	254	0.0	-1.388e+05	-2.239e+04	5337.41	2.129e+07	-1.074e+06	-5.534e+04
2	254	65.62	-1.374e+05	-2.184e+04	5314.04	2.164e+07	-1.116e+06	1.217e+04
2	254	131.25	-1.259e+05	-2.038e+04	4986.33	1.626e+07	-7.678e+05	1.096e+05
2	254	196.88	-1.150e+05	-1.897e+04	4800.51	1.213e+07	-4.394e+05	1.840e+05
2	254	262.50	-1.053e+05	-1.723e+04	4509.24	9.084e+06	-1.153e+05	2.165e+05
2	254	328.12	-9.632e+04	-1.506e+04	4184.85	6.725e+06	1.430e+05	2.098e+05
2	254	393.75	-8.772e+04	-1.285e+04	3808.45	4.788e+06	4.120e+05	1.649e+05
2	254	459.38	-7.933e+04	-1.046e+04	3371.25	3.179e+06	6.515e+05	7.618e+04
2	254	525.00	-7.106e+04	-8459.74	2866.35	1.874e+06	8.620e+05	-2.646e+04
2	267	0.0	-1.432e+05	2973.17	-2.609e+04	8.931e+06	5.301e+06	2.966e+05
2	267	65.62	-1.409e+05	4274.20	-2.614e+04	8.265e+06	5.275e+06	-4.943e+04
2	267	131.25	-1.296e+05	4600.38	-2.396e+04	4.927e+06	3.635e+06	-5.330e+05
2	267	196.88	-1.187e+05	5400.96	-2.232e+04	2.520e+06	2.127e+06	-8.700e+05
2	267	262.50	-1.089e+05	6101.72	-2.085e+04	9.709e+05	7.192e+05	-1.004e+06
2	267	328.12	-9.967e+04	6910.64	-1.936e+04	-1.445e+05	-6.241e+05	-9.594e+05
2	267	393.75	-9.079e+04	7820.01	-1.780e+04	-9.366e+05	-1.831e+06	-7.480e+05
2	267	459.38	-8.202e+04	8793.40	-1.610e+04	-1.443e+06	-2.941e+06	-3.655e+05
2	267	525.00	-7.347e+04	9378.42	-1.460e+04	-1.733e+06	-3.946e+06	1.344e+05
2	273	0.0	-1.437e+05	2.295e+04	-2.351e+04	-2.787e+06	4.805e+06	2.738e+05
2	273	65.62	-1.405e+05	2.495e+04	-2.350e+04	-4.433e+06	4.777e+06	-7174.15
2	273	131.25	-1.298e+05	2.414e+04	-2.148e+04	-5.775e+06	3.300e+06	-4.408e+05
2	273	196.88	-1.193e+05	2.424e+04	-2.009e+04	-6.531e+06	1.943e+06	-7.496e+05
2	273	262.50	-1.096e+05	2.407e+04	-1.877e+04	-6.642e+06	6.416e+05	-8.821e+05
2	273	328.12	-1.005e+05	2.369e+04	-1.747e+04	-6.494e+06	-5.282e+05	-8.567e+05
2	273	393.75	-9.165e+04	2.342e+04	-1.611e+04	-6.070e+06	-1.625e+06	-6.795e+05
2	273	459.38	-8.294e+04	2.323e+04	-1.460e+04	-5.546e+06	-2.633e+06	-3.413e+05
2	273	525.00	-7.445e+04	2.257e+04	-1.294e+04	-4.913e+06	-3.549e+06	1.074e+05
2	285	0.0	-1.414e+05	3.517e+04	-5065.68	-1.151e+07	1.085e+06	7.472e+04

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 157 di 378

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
2	285	65.62	-1.374e+05	3.769e+04	-5044.65	-1.396e+07	1.047e+06	2.512e+04
2	285	131.25	-1.275e+05	3.602e+04	-4571.98	-1.377e+07	7.327e+05	-7.344e+04
2	285	196.88	-1.175e+05	3.572e+04	-4291.31	-1.328e+07	4.411e+05	-1.435e+05
2	285	262.50	-1.083e+05	3.486e+04	-4000.13	-1.230e+07	1.570e+05	-1.774e+05
2	285	328.12	-9.951e+04	3.362e+04	-3721.28	-1.112e+07	-7.635e+04	-1.777e+05
2	285	393.75	-9.096e+04	3.249e+04	-3426.19	-9.835e+06	-3.160e+05	-1.452e+05
2	285	459.38	-8.254e+04	3.142e+04	-3101.03	-8.539e+06	-5.337e+05	-7.562e+04
2	285	525.00	-7.430e+04	2.994e+04	-2744.85	-7.236e+06	-7.304e+05	1.241e+04
2	286	0.0	-1.392e+05	-1.323e+04	3808.66	1.605e+07	-7.562e+05	-3.609e+04
2	286	65.62	-1.373e+05	-1.236e+04	3792.43	1.596e+07	-7.975e+05	1.440e+04
2	286	131.25	-1.261e+05	-1.140e+04	3580.45	1.148e+07	-5.466e+05	8.303e+04
2	286	196.88	-1.154e+05	-1.027e+04	3461.36	8.086e+06	-3.096e+05	1.360e+05
2	286	262.50	-1.058e+05	-8934.96	3256.03	5.684e+06	-7.525e+04	1.587e+05
2	286	328.12	-9.678e+04	-7304.69	3021.02	3.893e+06	1.111e+05	1.528e+05
2	286	393.75	-8.820e+04	-5624.82	2744.31	2.475e+06	3.050e+05	1.192e+05
2	286	459.38	-7.979e+04	-3788.02	2420.36	1.335e+06	4.772e+05	5.382e+04
2	286	525.00	-7.153e+04	-2343.39	2043.56	4.528e+05	6.280e+05	-2.094e+04
2	299	0.0	-1.424e+05	5201.75	-1.953e+04	7.114e+06	3.976e+06	2.251e+05
2	299	65.62	-1.400e+05	6610.29	-1.956e+04	6.283e+06	3.947e+06	-3.151e+04
2	299	131.25	-1.289e+05	6752.31	-1.791e+04	3.272e+06	2.721e+06	-3.942e+05
2	299	196.88	-1.181e+05	7448.46	-1.667e+04	1.126e+06	1.595e+06	-6.465e+05
2	299	262.50	-1.084e+05	8023.47	-1.557e+04	-1.940e+05	5.444e+05	-7.472e+05
2	299	328.12	-9.927e+04	8664.07	-1.446e+04	-1.088e+06	-4.586e+05	-7.152e+05
2	299	393.75	-9.047e+04	9400.26	-1.330e+04	-1.682e+06	-1.360e+06	-5.584e+05
2	299	459.38	-8.180e+04	1.021e+04	-1.203e+04	-2.028e+06	-2.189e+06	-2.741e+05
2	299	525.00	-7.332e+04	1.063e+04	-1.093e+04	-2.179e+06	-2.941e+06	9.872e+04
2	305	0.0	-1.428e+05	1.969e+04	-1.761e+04	-1.383e+06	3.609e+06	2.082e+05
2	305	65.62	-1.397e+05	2.160e+04	-1.761e+04	-2.924e+06	3.578e+06	-299.21
2	305	131.25	-1.290e+05	2.093e+04	-1.607e+04	-4.493e+06	2.473e+06	-3.260e+05
2	305	196.88	-1.185e+05	2.111e+04	-1.502e+04	-5.441e+06	1.459e+06	-5.574e+05
2	305	262.50	-1.089e+05	2.105e+04	-1.403e+04	-5.720e+06	4.869e+05	-6.572e+05
2	305	328.12	-9.993e+04	2.083e+04	-1.306e+04	-5.701e+06	-3.877e+05	-6.391e+05
2	305	393.75	-9.112e+04	2.071e+04	-1.205e+04	-5.414e+06	-1.208e+06	-5.077e+05
2	305	459.38	-8.248e+04	2.068e+04	-1.093e+04	-5.016e+06	-1.962e+06	-2.562e+05
2	305	525.00	-7.405e+04	2.019e+04	-9695.04	-4.501e+06	-2.647e+06	7.874e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-2.205e+05	-3.580e+04	-3.459e+04	-2.794e+07	-5.224e+06	-1.330e+06
			-6.967e+04	6.102e+04	7240.29	2.994e+07	6.983e+06	3.877e+05

Macro	Tipo	Angolo 1-Z (gradi)
4	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
4	41	0.0	-5.001e+04	1636.09	8327.76	2.372e+06	-7.930e+05	2038.34
4	41	65.62	-5.312e+04	677.17	8327.76	1.672e+06	-2.574e+05	4447.57
4	41	131.25	-5.213e+04	433.72	4029.91	1.065e+06	-1.323e+04	833.27
4	41	196.88	-4.804e+04	340.83	1614.34	6.795e+05	7.433e+04	-629.50
4	41	262.50	-4.224e+04	298.16	389.82	4.331e+05	9.159e+04	-1407.87
4	41	328.12	-3.564e+04	274.80	-449.35	2.680e+05	6.350e+04	-1847.83
4	41	393.75	-2.875e+04	261.47	-1488.50	1.520e+05	-2.397e+04	-2052.82
4	41	459.38	-2.198e+04	255.19	-3184.04	6.936e+04	-2.166e+05	-1979.13
4	41	525.00	-1.578e+04	254.17	-5465.04	1.913e+04	-5.661e+05	-1000.69
4	72	0.0	-1.235e+04	-2365.71	6719.44	5.728e+05	-8.873e+05	-2.003e+04
4	72	65.62	-1.119e+04	-257.49	6719.44	1.135e+06	-4.342e+05	-2.716e+04
4	72	131.25	-1.077e+04	224.31	3970.94	1.202e+06	-1.881e+05	-7618.10
4	72	196.88	-1.124e+04	269.66	2064.76	9.900e+05	-5.624e+04	-1579.91
4	72	262.50	-1.123e+04	246.42	779.61	7.335e+05	-5018.55	704.67
4	72	328.12	-1.091e+04	223.49	-78.13	4.941e+05	-5780.97	1617.50
4	72	393.75	-1.049e+04	209.62	-793.10	2.887e+05	-4.984e+04	2036.27
4	72	459.38	-1.003e+04	203.82	-1505.01	1.261e+05	-1.402e+05	2331.80
4	72	525.00	-9087.79	200.34	-1569.41	2.912e+04	-2.448e+05	2016.41
4	133	0.0	-4.722e+04	9135.49	7300.24	4.396e+06	-7.478e+05	-3.864e+04

MANDATARIA MANDANTE PROGETTISTA INDICATO



BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 158 di 378

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	133	65.62	-4.993e+04	8807.21	7300.24	3.396e+06	-2.768e+05	-5.954e+04
4	133	131.25	-4.887e+04	8481.01	3568.48	2.516e+06	-5.568e+04	-5.051e+04
4	133	196.88	-4.505e+04	8035.24	1450.89	1.864e+06	2.781e+04	-5.093e+04
4	133	262.50	-3.963e+04	7472.24	358.70	1.377e+06	4.611e+04	-5.218e+04
4	133	328.12	-3.347e+04	6840.29	-380.49	9.983e+05	2.193e+04	-5.350e+04
4	133	393.75	-2.706e+04	6211.83	-1257.40	6.866e+05	-5.454e+04	-5.462e+04
4	133	459.38	-2.077e+04	5673.06	-2619.01	4.076e+05	-2.170e+05	-5.403e+04
4	133	525.00	-1.495e+04	5339.52	-4230.27	1.225e+05	-4.903e+05	-3.491e+04
4	134	0.0	-3.116e+04	6840.45	8480.33	3.598e+06	-9.962e+05	-5.234e+04
4	134	65.62	-3.165e+04	8320.07	8480.33	3.297e+06	-4.341e+05	-7.893e+04
4	134	131.25	-3.087e+04	8419.06	4596.60	2.756e+06	-1.495e+05	-5.572e+04
4	134	196.88	-2.939e+04	8047.39	2165.53	2.159e+06	-1.620e+04	-5.159e+04
4	134	262.50	-2.682e+04	7490.44	718.36	1.630e+06	2.819e+04	-5.100e+04
4	134	328.12	-2.368e+04	6855.36	-242.23	1.180e+06	1.573e+04	-5.153e+04
4	134	393.75	-2.035e+04	6224.64	-1184.50	7.954e+05	-5.323e+04	-5.229e+04
4	134	459.38	-1.706e+04	5685.29	-2411.45	4.538e+05	-2.005e+05	-5.154e+04
4	134	525.00	-1.367e+04	5349.93	-3408.29	1.317e+05	-4.231e+05	-3.312e+04
4	157	0.0	-3.733e+04	1144.61	6285.65	1.754e+06	-6.061e+05	1057.45
4	157	65.62	-3.963e+04	484.88	6285.65	1.252e+06	-2.015e+05	2646.73
4	157	131.25	-3.882e+04	316.60	3053.67	8.071e+05	-1.617e+04	405.70
4	157	196.88	-3.575e+04	249.49	1231.79	5.194e+05	5.129e+04	-540.96
4	157	262.50	-3.142e+04	217.73	302.83	3.329e+05	6.518e+04	-1063.78
4	157	328.12	-2.650e+04	200.09	-328.58	2.067e+05	4.476e+04	-1366.79
4	157	393.75	-2.136e+04	189.96	-1094.30	1.173e+05	-1.952e+04	-1507.32
4	157	459.38	-1.631e+04	185.17	-2324.67	5.327e+04	-1.602e+05	-1444.44
4	157	525.00	-1.168e+04	184.39	-3943.26	1.462e+04	-4.125e+05	-717.52
4	172	0.0	-1.910e+04	-1413.27	6490.39	8.751e+05	-8.038e+05	-1.419e+04
4	172	65.62	-1.889e+04	-66.10	6490.39	1.148e+06	-3.715e+05	-1.894e+04
4	172	131.25	-1.833e+04	237.53	3663.08	1.079e+06	-1.450e+05	-5440.05
4	172	196.88	-1.782e+04	252.78	1812.91	8.503e+05	-3.175e+04	-1333.95
4	172	262.50	-1.663e+04	227.73	640.60	6.161e+05	9005.37	177.04
4	172	328.12	-1.507e+04	206.56	-146.85	4.102e+05	2839.25	756.77
4	172	393.75	-1.338e+04	193.84	-862.62	2.386e+05	-4.625e+04	1023.29
4	172	459.38	-1.170e+04	188.33	-1682.96	1.046e+05	-1.480e+05	1255.98
4	172	525.00	-9784.35	185.66	-2090.61	2.480e+04	-2.850e+05	1236.98
4	203	0.0	-3.547e+04	6144.21	5600.63	3.104e+06	-5.760e+05	-2.606e+04
4	203	65.62	-3.750e+04	5904.90	5600.63	2.401e+06	-2.144e+05	-4.001e+04
4	203	131.25	-3.665e+04	5681.46	2746.04	1.775e+06	-4.447e+04	-3.382e+04
4	203	196.88	-3.376e+04	5379.10	1122.82	1.309e+06	2.028e+04	-3.408e+04
4	203	262.50	-2.968e+04	5000.44	282.08	9.622e+05	3.487e+04	-3.491e+04
4	203	328.12	-2.505e+04	4577.08	-282.67	6.935e+05	1.704e+04	-3.580e+04
4	203	393.75	-2.023e+04	4156.87	-940.23	4.736e+05	-3.990e+04	-3.655e+04
4	203	459.38	-1.551e+04	3797.08	-1947.98	2.787e+05	-1.605e+05	-3.614e+04
4	203	525.00	-1.112e+04	3574.63	-3120.08	8.355e+04	-3.620e+05	-2.332e+04
4	204	0.0	-2.477e+04	4614.18	6387.36	2.572e+06	-7.416e+05	-3.519e+04
4	204	65.62	-2.531e+04	5580.14	6387.36	2.335e+06	-3.193e+05	-5.294e+04
4	204	131.25	-2.465e+04	5640.16	3431.46	1.935e+06	-1.070e+05	-3.730e+04
4	204	196.88	-2.332e+04	5387.20	1599.25	1.505e+06	-9065.87	-3.452e+04
4	204	262.50	-2.114e+04	5012.58	521.86	1.131e+06	2.292e+04	-3.413e+04
4	204	328.12	-1.852e+04	4587.13	-190.49	8.150e+05	1.291e+04	-3.449e+04
4	204	393.75	-1.576e+04	4165.41	-891.63	5.462e+05	-3.903e+04	-3.500e+04
4	204	459.38	-1.303e+04	3805.23	-1809.60	3.096e+05	-1.495e+05	-3.449e+04
4	204	525.00	-1.027e+04	3581.57	-2572.10	8.964e+04	-3.172e+05	-2.213e+04
4	209	0.0	-3.417e+04	795.29	5686.22	1.578e+06	-5.843e+05	-680.06
4	209	65.62	-3.613e+04	382.20	5686.22	1.183e+06	-2.178e+05	77.04
4	209	131.25	-3.524e+04	273.32	2812.30	7.984e+05	-4.501e+04	-368.80
4	209	196.88	-3.244e+04	218.69	1169.12	5.298e+05	2.190e+04	-729.93
4	209	262.50	-2.851e+04	189.34	303.27	3.466e+05	3.765e+04	-1008.45
4	209	328.12	-2.405e+04	172.16	-281.57	2.175e+05	2.035e+04	-1199.88
4	209	393.75	-1.942e+04	162.12	-942.17	1.236e+05	-3.569e+04	-1286.37
4	209	459.38	-1.489e+04	157.31	-1920.63	5.541e+04	-1.532e+05	-1200.43
4	209	525.00	-1.067e+04	156.53	-3013.58	1.489e+04	-3.469e+05	-544.60
4	210	0.0	-2.524e+04	-479.73	6341.83	1.135e+06	-7.223e+05	-8286.81
4	210	65.62	-2.598e+04	111.57	6341.83	1.128e+06	-3.052e+05	-1.070e+04
4	210	131.25	-2.524e+04	238.91	3383.48	9.317e+05	-9.713e+04	-3263.95
4	210	196.88	-2.374e+04	225.44	1566.15	6.934e+05	-2556.17	-1095.13
4	210	262.50	-2.139e+04	199.45	503.08	4.870e+05	2.769e+04	-355.87
4	210	328.12	-1.862e+04	180.54	-204.75	3.187e+05	1.690e+04	-106.16
4	210	393.75	-1.570e+04	169.24	-901.66	1.840e+05	-3.496e+04	9.85
4	210	459.38	-1.283e+04	164.10	-1805.32	8.111e+04	-1.440e+05	178.12

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	210	525.00	-9959.50	162.31	-2556.93	1.996e+04	-3.096e+05	449.07
4	214	0.0	-3.206e+04	1541.25	5827.87	1.759e+06	-6.163e+05	-7621.52
4	214	65.62	-3.373e+04	1413.37	5827.87	1.401e+06	-2.385e+05	-1.060e+04
4	214	131.25	-3.287e+04	1340.78	2936.07	1.018e+06	-5.781e+04	-7786.18
4	214	196.88	-3.037e+04	1247.33	1255.12	7.200e+05	1.536e+04	-7502.01
4	214	262.50	-2.681e+04	1149.26	347.33	5.002e+05	3.443e+04	-7638.73
4	214	328.12	-2.275e+04	1050.61	-260.77	3.350e+05	1.879e+04	-7859.40
4	214	393.75	-1.852e+04	958.31	-923.34	2.069e+05	-3.586e+04	-8028.14
4	214	459.38	-1.438e+04	882.44	-1877.04	1.057e+05	-1.506e+05	-7856.64
4	214	525.00	-1.048e+04	837.11	-2882.86	2.969e+04	-3.364e+05	-4862.92
4	215	0.0	-3.204e+04	491.72	5842.32	1.473e+06	-6.172e+05	-2491.19
4	215	65.62	-3.371e+04	317.76	5842.32	1.170e+06	-2.386e+05	-2488.29
4	215	131.25	-3.286e+04	265.13	2948.30	8.301e+05	-5.742e+04	-1058.12
4	215	196.88	-3.037e+04	220.30	1263.65	5.688e+05	1.607e+04	-816.88
4	215	262.50	-2.682e+04	191.74	350.84	3.800e+05	3.528e+04	-853.07
4	215	328.12	-2.276e+04	174.16	-263.28	2.416e+05	1.953e+04	-939.47
4	215	393.75	-1.854e+04	163.81	-932.52	1.380e+05	-3.552e+04	-977.74
4	215	459.38	-1.440e+04	158.93	-1893.17	6.153e+04	-1.510e+05	-872.20
4	215	525.00	-1.050e+04	157.91	-2904.86	1.610e+04	-3.380e+05	-308.02
4	219	0.0	-4.479e+04	1.045e+04	4905.55	5.355e+06	-6.783e+05	-1.417e+05
4	219	65.62	-4.646e+04	1.027e+04	4905.55	5.052e+06	-2.978e+05	-1.347e+05
4	219	131.25	-4.311e+04	1.118e+04	2748.84	4.148e+06	-1.328e+05	-1.407e+05
4	219	196.88	-3.844e+04	1.168e+04	1277.86	3.303e+06	-3.809e+04	-1.380e+05
4	219	262.50	-3.542e+04	1.170e+04	390.37	2.607e+06	-1.231e+04	-1.399e+05
4	219	328.12	-3.089e+04	1.129e+04	-185.80	1.546e+06	-2.683e+04	-1.341e+05
4	219	393.75	-2.436e+04	1.043e+04	-805.56	7.866e+05	-8.429e+04	-1.374e+05
4	219	459.38	-1.402e+04	9405.12	-1538.28	4.989e+05	-2.050e+05	-1.426e+05
4	219	525.00	-7155.64	7808.90	-2025.16	3.169e+05	-2.640e+05	-1.292e+05
4	223	0.0	-4.461e+04	1.289e+04	4879.73	5.391e+06	-6.771e+05	-1.329e+05
4	223	65.62	-4.628e+04	1.272e+04	4879.73	5.088e+06	-2.966e+05	-1.255e+05
4	223	131.25	-4.308e+04	1.352e+04	2742.05	4.143e+06	-1.326e+05	-1.305e+05
4	223	196.88	-3.840e+04	1.381e+04	1276.59	3.263e+06	-3.849e+04	-1.279e+05
4	223	262.50	-3.539e+04	1.362e+04	390.07	2.558e+06	-1.247e+04	-1.298e+05
4	223	328.12	-3.087e+04	1.295e+04	-186.71	1.507e+06	-2.685e+04	-1.240e+05
4	223	393.75	-2.435e+04	1.181e+04	-806.41	7.702e+05	-8.431e+04	-1.275e+05
4	223	459.38	-1.402e+04	1.052e+04	-1518.92	5.076e+05	-2.050e+05	-1.327e+05
4	223	525.00	-7153.12	8675.82	-2024.93	3.387e+05	-2.667e+05	-1.206e+05
4	235	0.0	-3.926e+04	4.558e+04	6050.52	1.451e+07	-6.739e+05	-4.416e+05
4	235	65.62	-4.093e+04	4.540e+04	6050.52	1.420e+07	-2.949e+05	-4.120e+05
4	235	131.25	-3.844e+04	4.644e+04	3124.71	1.187e+07	-9.489e+04	-4.361e+05
4	235	196.88	-3.455e+04	4.662e+04	1373.73	9.791e+06	-3217.85	-4.249e+05
4	235	262.50	-3.057e+04	4.618e+04	388.31	7.911e+06	2.189e+04	-4.290e+05
4	235	328.12	-2.590e+04	4.491e+04	-247.71	6.011e+06	7089.01	-4.299e+05
4	235	393.75	-2.062e+04	4.281e+04	-915.29	4.237e+06	-4.965e+04	-4.324e+05
4	235	459.38	-1.437e+04	4.009e+04	-1888.86	2.578e+06	-1.681e+05	-4.462e+05
4	235	525.00	-9447.08	3.630e+04	-2618.97	8.353e+05	-3.078e+05	-4.065e+05
4	241	0.0	-3.167e+04	5.607e+04	6623.29	1.465e+07	-6.408e+05	-4.073e+05
4	241	65.62	-3.334e+04	5.590e+04	6623.29	1.434e+07	-2.629e+05	-3.752e+05
4	241	131.25	-3.268e+04	5.618e+04	3268.49	1.185e+07	-5.170e+04	-3.961e+05
4	241	196.88	-2.993e+04	5.536e+04	1381.89	9.678e+06	2.736e+04	-3.846e+05
4	241	262.50	-2.556e+04	5.407e+04	368.65	7.770e+06	5.009e+04	-3.882e+05
4	241	328.12	-2.110e+04	5.195e+04	-298.76	6.164e+06	3.510e+04	-3.933e+05
4	241	393.75	-1.715e+04	4.909e+04	-998.42	4.566e+06	-2.034e+04	-3.948e+05
4	241	459.38	-1.459e+04	4.561e+04	-2057.46	2.817e+06	-1.360e+05	-4.080e+05
4	241	525.00	-1.144e+04	4.130e+04	-3141.65	8.716e+05	-3.595e+05	-3.732e+05
4	251	0.0	-4.127e+04	8053.96	5305.80	4.386e+06	-6.625e+05	-1.072e+05
4	251	65.62	-4.294e+04	7880.01	5305.80	4.083e+06	-2.825e+05	-1.018e+05
4	251	131.25	-4.031e+04	8529.84	2875.52	3.321e+06	-1.116e+05	-1.060e+05
4	251	196.88	-3.614e+04	8882.18	1297.37	2.629e+06	-2.132e+04	-1.039e+05
4	251	262.50	-3.285e+04	8908.85	379.37	2.058e+06	3264.89	-1.053e+05
4	251	328.12	-2.842e+04	8602.84	-219.95	1.249e+06	-1.213e+04	-1.014e+05
4	251	393.75	-2.257e+04	7967.79	-874.11	6.641e+05	-7.008e+04	-1.039e+05
4	251	459.38	-1.418e+04	7217.43	-1699.23	4.200e+05	-1.896e+05	-1.075e+05
4	251	525.00	-8266.18	6040.87	-2352.29	2.434e+05	-2.908e+05	-9.718e+04
4	255	0.0	-4.113e+04	9902.08	5286.40	4.415e+06	-6.615e+05	-1.005e+05
4	255	65.62	-4.280e+04	9728.13	5286.40	4.112e+06	-2.815e+05	-9.484e+04
4	255	131.25	-4.028e+04	1.030e+04	2870.40	3.317e+06	-1.114e+05	-9.830e+04
4	255	196.88	-3.611e+04	1.050e+04	1296.42	2.598e+06	-2.161e+04	-9.628e+04
4	255	262.50	-3.283e+04	1.036e+04	379.13	2.021e+06	3157.99	-9.765e+04
4	255	328.12	-2.840e+04	9853.49	-220.68	1.220e+06	-1.215e+04	-9.379e+04

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
4	255	393.75	-2.256e+04	9013.58	-874.77	6.517e+05	-7.009e+04	-9.639e+04
4	255	459.38	-1.418e+04	8061.18	-1685.60	4.267e+05	-1.896e+05	-1.001e+05
4	255	525.00	-8264.26	6697.78	-2352.09	2.606e+05	-2.926e+05	-9.069e+04
4	267	0.0	-3.737e+04	3.438e+04	6051.29	1.129e+07	-6.597e+05	-3.334e+05
4	267	65.62	-3.905e+04	3.420e+04	6051.29	1.099e+07	-2.809e+05	-3.111e+05
4	267	131.25	-3.699e+04	3.499e+04	3104.99	9.147e+06	-8.485e+04	-3.289e+05
4	267	196.88	-3.343e+04	3.513e+04	1353.69	7.518e+06	2564.57	-3.204e+05
4	267	262.50	-2.951e+04	3.482e+04	378.79	6.055e+06	2.630e+04	-3.234e+05
4	267	328.12	-2.499e+04	3.387e+04	-255.85	4.596e+06	1.117e+04	-3.243e+05
4	267	393.75	-2.000e+04	3.230e+04	-930.76	3.237e+06	-4.549e+04	-3.262e+05
4	267	459.38	-1.440e+04	3.026e+04	-1908.26	1.964e+06	-1.633e+05	-3.365e+05
4	267	525.00	-9795.67	2.742e+04	-2721.30	6.239e+05	-3.185e+05	-3.062e+05
4	273	0.0	-3.187e+04	4.226e+04	6381.67	1.141e+07	-6.352e+05	-3.078e+05
4	273	65.62	-3.354e+04	4.208e+04	6381.67	1.110e+07	-2.572e+05	-2.834e+05
4	273	131.25	-3.280e+04	4.231e+04	3166.89	9.136e+06	-5.389e+04	-2.988e+05
4	273	196.88	-3.013e+04	4.171e+04	1346.09	7.434e+06	2.359e+04	-2.901e+05
4	273	262.50	-2.600e+04	4.074e+04	364.74	5.949e+06	4.527e+04	-2.929e+05
4	273	328.12	-2.165e+04	3.915e+04	-285.40	4.697e+06	3.032e+04	-2.966e+05
4	273	393.75	-1.760e+04	3.700e+04	-971.12	3.462e+06	-2.472e+04	-2.977e+05
4	273	459.38	-1.452e+04	3.437e+04	-1993.69	2.126e+06	-1.403e+05	-3.077e+05
4	273	525.00	-1.112e+04	3.112e+04	-3048.66	6.514e+05	-3.517e+05	-2.812e+05
4	283	0.0	-3.874e+04	6159.40	5444.92	3.637e+06	-6.501e+05	-8.007e+04
4	283	65.62	-4.041e+04	5985.44	5444.92	3.334e+06	-2.705e+05	-7.607e+04
4	283	131.25	-3.826e+04	6444.73	2890.85	2.680e+06	-9.674e+04	-7.882e+04
4	283	196.88	-3.456e+04	6688.23	1286.64	2.098e+06	-1.116e+04	-7.720e+04
4	283	262.50	-3.121e+04	6695.39	371.68	1.626e+06	1.191e+04	-7.825e+04
4	283	328.12	-2.688e+04	6462.51	-231.04	9.942e+05	-3525.81	-7.541e+04
4	283	393.75	-2.147e+04	5990.06	-887.57	5.350e+05	-6.059e+04	-7.721e+04
4	283	459.38	-1.424e+04	5433.02	-1747.97	3.302e+05	-1.790e+05	-7.989e+04
4	283	525.00	-8869.02	4564.42	-2497.89	1.834e+05	-3.033e+05	-7.211e+04
4	287	0.0	-3.863e+04	7530.65	5430.52	3.658e+06	-6.494e+05	-7.515e+04
4	287	65.62	-4.031e+04	7356.70	5430.52	3.355e+06	-2.698e+05	-7.091e+04
4	287	131.25	-3.824e+04	7758.46	2887.05	2.677e+06	-9.659e+04	-7.309e+04
4	287	196.88	-3.454e+04	7886.00	1285.93	2.076e+06	-1.137e+04	-7.153e+04
4	287	262.50	-3.119e+04	7768.61	371.51	1.598e+06	1.183e+04	-7.257e+04
4	287	328.12	-2.687e+04	7390.61	-231.59	9.726e+05	-3541.98	-6.976e+04
4	287	393.75	-2.146e+04	6766.17	-888.06	5.258e+05	-6.060e+04	-7.166e+04
4	287	459.38	-1.424e+04	6059.22	-1737.91	3.352e+05	-1.790e+05	-7.436e+04
4	287	525.00	-8867.61	5051.96	-2497.74	1.962e+05	-3.046e+05	-6.729e+04
4	299	0.0	-3.595e+04	2.565e+04	5997.72	8.760e+06	-6.486e+05	-2.481e+05
4	299	65.62	-3.763e+04	2.548e+04	5997.72	8.456e+06	-2.698e+05	-2.315e+05
4	299	131.25	-3.588e+04	2.604e+04	3063.57	7.003e+06	-7.751e+04	-2.443e+05
4	299	196.88	-3.261e+04	2.614e+04	1329.87	5.727e+06	6205.93	-2.379e+05
4	299	262.50	-2.879e+04	2.590e+04	371.49	4.592e+06	2.873e+04	-2.402e+05
4	299	328.12	-2.439e+04	2.519e+04	-257.74	3.475e+06	1.346e+04	-2.409e+05
4	299	393.75	-1.960e+04	2.402e+04	-930.74	2.440e+06	-4.275e+04	-2.423e+05
4	299	459.38	-1.440e+04	2.251e+04	-1903.83	1.474e+06	-1.599e+05	-2.499e+05
4	299	525.00	-9985.98	2.040e+04	-2769.61	4.667e+05	-3.236e+05	-2.273e+05
4	305	0.0	-3.196e+04	3.147e+04	6242.48	8.845e+06	-6.308e+05	-2.291e+05
4	305	65.62	-3.363e+04	3.129e+04	6242.48	8.542e+06	-2.526e+05	-2.110e+05
4	305	131.25	-3.286e+04	3.145e+04	3111.58	6.994e+06	-5.506e+04	-2.220e+05
4	305	196.88	-3.022e+04	3.100e+04	1325.45	5.664e+06	2.150e+04	-2.156e+05
4	305	262.50	-2.624e+04	3.027e+04	361.26	4.513e+06	4.258e+04	-2.176e+05
4	305	328.12	-2.196e+04	2.909e+04	-279.72	3.546e+06	2.740e+04	-2.204e+05
4	305	393.75	-1.786e+04	2.749e+04	-961.65	2.603e+06	-2.768e+04	-2.213e+05
4	305	459.38	-1.449e+04	2.554e+04	-1968.15	1.593e+06	-1.433e+05	-2.286e+05
4	305	525.00	-1.096e+04	2.312e+04	-3010.68	4.880e+05	-3.481e+05	-2.088e+05
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-5.312e+04	-2365.71	-5465.04	1.462e+04	-9.962e+05	-4.462e+05
			-7153.12	5.618e+04	8480.33	1.465e+07	9.159e+04	4447.57

Macro	Tipo	Angolo 1-Z (gradi)
5	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	daN	daN	daN	daN cm	daN cm	daN cm
5	81	0.0	-1.118e+05	-8854.26	2917.38	1.134e+06	-2.776e+05	9.501e+04
5	81	65.62	-1.114e+05	-7237.24	2917.38	2.907e+05	-5.745e+04	2.194e+05
5	81	131.25	-1.014e+05	-6171.68	3867.57	-4.947e+05	2.030e+05	1.944e+05
5	81	196.88	-9.170e+04	-5772.69	3903.82	-1.014e+06	4.625e+05	1.614e+05
5	81	262.50	-8.223e+04	-5540.34	3600.80	-1.361e+06	7.002e+05	1.062e+05
5	81	328.12	-7.286e+04	-5296.31	3244.45	-1.624e+06	9.147e+05	2.897e+04
5	81	393.75	-6.350e+04	-4923.52	2962.09	-1.853e+06	1.111e+06	-6.690e+04
5	81	459.38	-5.410e+04	-4311.98	2852.09	-2.080e+06	1.297e+06	-1.703e+05
5	81	525.00	-4.463e+04	-3661.07	3059.67	-2.316e+06	1.476e+06	-1.915e+05
5	98	0.0	-9.814e+04	-2.692e+04	-1279.45	5.819e+06	1.001e+06	1.401e+05
5	98	65.62	-9.975e+04	-2.541e+04	-1279.45	5.296e+06	9.119e+05	2.946e+05
5	98	131.25	-9.126e+04	-2.403e+04	-466.68	4.426e+06	8.879e+05	2.141e+05
5	98	196.88	-8.255e+04	-2.337e+04	-14.80	3.462e+06	8.942e+05	1.387e+05
5	98	262.50	-7.384e+04	-2.300e+04	-19.11	2.533e+06	8.980e+05	5.699e+04
5	98	328.12	-6.510e+04	-2.270e+04	-226.49	1.600e+06	8.877e+05	-2.787e+04
5	98	393.75	-5.625e+04	-2.235e+04	-479.19	6.022e+05	8.607e+05	-1.115e+05
5	98	459.38	-4.720e+04	-2.182e+04	-667.72	-5.112e+05	8.190e+05	-1.835e+05
5	98	525.00	-3.790e+04	-2.128e+04	-660.19	-1.780e+06	7.588e+05	-1.674e+05
5	128	0.0	-6.919e+04	-1.991e+04	-1.084e+04	2.473e+06	2.251e+06	1.357e+05
5	128	65.62	-7.099e+04	-1.899e+04	-1.084e+04	2.529e+06	1.524e+06	1.519e+05
5	128	131.25	-6.502e+04	-1.804e+04	-8359.60	2.317e+06	9.811e+05	1.086e+04
5	128	196.88	-5.883e+04	-1.757e+04	-6065.60	1.979e+06	5.892e+05	-7.177e+04
5	128	262.50	-5.261e+04	-1.734e+04	-4210.88	1.643e+06	3.157e+05	-1.212e+05
5	128	328.12	-4.633e+04	-1.718e+04	-2590.70	1.272e+06	1.467e+05	-1.459e+05
5	128	393.75	-3.990e+04	-1.700e+04	-1045.47	8.048e+05	7.843e+04	-1.527e+05
5	128	459.38	-3.324e+04	-1.670e+04	535.21	1.814e+05	1.139e+05	-1.450e+05
5	128	525.00	-2.626e+04	-1.641e+04	2195.32	-6.635e+05	2.561e+05	-9.088e+04
5	177	0.0	-8.393e+04	-7174.65	1681.61	8.617e+05	-1.131e+05	7.410e+04
5	177	65.62	-8.367e+04	-5964.60	1681.61	2.422e+05	1.834e+04	1.629e+05
5	177	131.25	-7.608e+04	-5159.83	2464.64	-3.297e+05	1.851e+05	1.386e+05
5	177	196.88	-6.871e+04	-4857.06	2561.29	-7.029e+05	3.557e+05	1.114e+05
5	177	262.50	-6.149e+04	-4682.77	2395.36	-9.484e+05	5.139e+05	6.980e+04
5	177	328.12	-5.434e+04	-4503.19	2182.20	-1.133e+06	6.582e+05	1.368e+04
5	177	393.75	-4.719e+04	-4230.99	2018.45	-1.298e+06	7.919e+05	-5.476e+04
5	177	459.38	-4.001e+04	-3784.46	1977.85	-1.470e+06	9.211e+05	-1.277e+05
5	177	525.00	-3.275e+04	-3307.44	2167.37	-1.665e+06	1.048e+06	-1.397e+05
5	186	0.0	-7.484e+04	-1.922e+04	-1116.27	3.985e+06	7.395e+05	1.041e+05
5	186	65.62	-7.594e+04	-1.808e+04	-1116.27	3.579e+06	6.646e+05	2.129e+05
5	186	131.25	-6.933e+04	-1.707e+04	-424.86	2.951e+06	6.417e+05	1.517e+05
5	186	196.88	-6.261e+04	-1.659e+04	-51.13	2.281e+06	6.435e+05	9.624e+04
5	186	262.50	-5.590e+04	-1.632e+04	-17.91	1.648e+06	6.458e+05	3.699e+04
5	186	328.12	-4.917e+04	-1.611e+04	-131.76	1.017e+06	6.402e+05	-2.421e+04
5	186	393.75	-4.236e+04	-1.585e+04	-275.74	3.390e+05	6.251e+05	-8.450e+04
5	186	459.38	-3.541e+04	-1.546e+04	-368.69	-4.245e+05	6.023e+05	-1.365e+05
5	186	525.00	-2.826e+04	-1.505e+04	-312.54	-1.308e+06	5.693e+05	-1.237e+05
5	200	0.0	-7.223e+04	-1.630e+04	-7751.71	1.786e+06	1.661e+06	1.206e+05
5	200	65.62	-7.347e+04	-1.532e+04	-7751.71	1.676e+06	1.147e+06	1.500e+05
5	200	131.25	-6.711e+04	-1.443e+04	-5684.63	1.405e+06	7.798e+05	3.621e+04
5	200	196.88	-6.065e+04	-1.401e+04	-3956.67	1.106e+06	5.252e+05	-3.306e+04
5	200	262.50	-5.422e+04	-1.380e+04	-2619.00	8.458e+05	3.554e+05	-8.015e+04
5	200	328.12	-4.776e+04	-1.364e+04	-1465.26	5.749e+05	2.600e+05	-1.115e+05
5	200	393.75	-4.119e+04	-1.344e+04	-354.49	2.347e+05	2.372e+05	-1.318e+05
5	200	459.38	-3.443e+04	-1.311e+04	812.36	-2.284e+05	2.905e+05	-1.417e+05
5	200	525.00	-2.740e+04	-1.278e+04	2093.60	-8.729e+05	4.228e+05	-1.015e+05
5	206	0.0	-7.796e+04	-8591.66	-1511.24	4.168e+05	4.589e+05	8.778e+04
5	206	65.62	-7.808e+04	-7495.71	-1511.24	-2.095e+04	3.760e+05	1.424e+05
5	206	131.25	-7.087e+04	-6723.50	-298.51	-4.111e+05	3.616e+05	8.477e+04
5	206	196.88	-6.384e+04	-6423.93	287.19	-6.344e+05	3.831e+05	4.352e+04
5	206	262.50	-5.694e+04	-6259.70	583.89	-7.474e+05	4.220e+05	2384.80
5	206	328.12	-5.008e+04	-6103.82	799.01	-8.193e+05	4.748e+05	-4.120e+04
5	206	393.75	-4.319e+04	-5872.78	1034.69	-9.022e+05	5.431e+05	-8.743e+04
5	206	459.38	-3.620e+04	-5489.56	1365.85	-1.036e+06	6.321e+05	-1.316e+05
5	206	525.00	-2.905e+04	-5074.87	1878.49	-1.262e+06	7.440e+05	-1.200e+05
5	210	0.0	-7.391e+04	-1.367e+04	-2702.25	1.744e+06	8.194e+05	1.002e+05
5	210	65.62	-7.460e+04	-1.261e+04	-2702.25	1.396e+06	6.488e+05	1.628e+05
5	210	131.25	-6.781e+04	-1.175e+04	-1530.00	9.823e+05	5.535e+05	8.973e+04
5	210	196.88	-6.105e+04	-1.138e+04	-828.69	6.341e+05	5.028e+05	3.667e+04

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	210	262.50	-5.436e+04	-1.117e+04	-448.99	3.582e+05	4.750e+05	-1.171e+04
5	210	328.12	-4.768e+04	-1.100e+04	-193.17	9.796e+04	4.635e+05	-5.713e+04
5	210	393.75	-4.094e+04	-1.078e+04	49.10	-2.007e+05	4.679e+05	-9.954e+04
5	210	459.38	-3.405e+04	-1.042e+04	355.44	-5.838e+05	4.914e+05	-1.344e+05
5	210	525.00	-2.695e+04	-1.004e+04	807.81	-1.101e+06	5.344e+05	-1.123e+05
5	215	0.0	-7.655e+04	-8636.21	-1593.27	4.926e+05	4.686e+05	8.608e+04
5	215	65.62	-7.668e+04	-7554.03	-1593.27	5.438e+04	3.801e+05	1.384e+05
5	215	131.25	-6.948e+04	-6791.53	-392.60	-3.346e+05	3.595e+05	8.115e+04
5	215	196.88	-6.245e+04	-6496.61	186.37	-5.571e+05	3.743e+05	4.053e+04
5	215	262.50	-5.556e+04	-6336.58	477.66	-6.697e+05	4.062e+05	631.71
5	215	328.12	-4.871e+04	-6187.02	685.74	-7.414e+05	4.515e+05	-4.108e+04
5	215	393.75	-4.182e+04	-5967.24	910.46	-8.246e+05	5.116e+05	-8.483e+04
5	215	459.38	-3.485e+04	-5603.20	1224.06	-9.602e+05	5.913e+05	-1.261e+05
5	215	525.00	-2.770e+04	-5207.86	1710.59	-1.191e+06	6.926e+05	-1.140e+05
5	226	0.0	-8.733e+04	-5.582e+04	4661.66	2.435e+07	-1.005e+06	-6.744e+04
5	226	65.62	-8.745e+04	-5.474e+04	4661.66	2.391e+07	-1.090e+06	1.070e+05
5	226	131.25	-7.731e+04	-5.164e+04	6345.51	2.012e+07	-7.012e+05	2.340e+05
5	226	196.88	-7.062e+04	-4.820e+04	6785.35	1.651e+07	-2.847e+05	3.752e+05
5	226	262.50	-6.301e+04	-4.511e+04	6719.72	1.301e+07	1.578e+05	3.792e+05
5	226	328.12	-5.545e+04	-4.216e+04	6381.88	9.797e+06	5.750e+05	3.387e+05
5	226	393.75	-4.796e+04	-3.885e+04	6150.25	6.766e+06	1.146e+06	2.546e+05
5	226	459.38	-4.062e+04	-3.539e+04	5914.64	3.929e+06	1.518e+06	1.342e+05
5	226	525.00	-3.347e+04	-3.163e+04	5508.32	1.316e+06	1.904e+06	1.367e+04
5	235	0.0	-3.992e+04	1.879e+04	-2.438e+04	-1.977e+07	5.148e+06	2.905e+05
5	235	65.62	-4.005e+04	1.987e+04	-2.438e+04	-2.021e+07	5.053e+06	-1.895e+04
5	235	131.25	-3.552e+04	2.076e+04	-2.241e+04	-1.736e+07	3.591e+06	-5.983e+05
5	235	196.88	-3.133e+04	2.016e+04	-2.056e+04	-1.388e+07	2.233e+06	-9.830e+05
5	235	262.50	-2.719e+04	1.995e+04	-1.874e+04	-1.052e+07	8.889e+05	-1.164e+06
5	235	328.12	-2.315e+04	2.045e+04	-1.680e+04	-7.215e+06	-2.924e+05	-1.170e+06
5	235	393.75	-1.868e+04	2.059e+04	-1.464e+04	-3.894e+06	-1.288e+06	-1.022e+06
5	235	459.38	-1.383e+04	2.143e+04	-1.218e+04	-7.985e+05	-2.136e+06	-7.298e+05
5	235	525.00	-8509.11	2.166e+04	-8017.26	1.612e+06	-2.813e+06	-2.775e+05
5	237	0.0	-3.925e+04	3.701e+04	-2.387e+04	-2.886e+07	5.152e+06	3.389e+05
5	237	65.62	-3.937e+04	3.809e+04	-2.387e+04	-2.930e+07	5.056e+06	2.718e+04
5	237	131.25	-3.590e+04	3.789e+04	-2.221e+04	-2.518e+07	3.610e+06	-5.614e+05
5	237	196.88	-3.128e+04	3.623e+04	-2.058e+04	-2.066e+07	2.260e+06	-9.734e+05
5	237	262.50	-2.724e+04	3.460e+04	-1.882e+04	-1.610e+07	9.298e+05	-1.159e+06
5	237	328.12	-2.329e+04	3.367e+04	-1.689e+04	-1.171e+07	-2.360e+05	-1.178e+06
5	237	393.75	-1.891e+04	3.233e+04	-1.477e+04	-7.402e+06	-1.267e+06	-1.043e+06
5	237	459.38	-1.409e+04	3.161e+04	-1.235e+04	-3.421e+06	-2.120e+06	-7.650e+05
5	237	525.00	-8778.35	3.026e+04	-8220.64	-2.201e+05	-2.817e+06	-3.147e+05
5	242	0.0	-1.170e+05	-3.685e+04	1.847e+04	2.523e+07	-3.750e+06	-1.574e+05
5	242	65.62	-1.171e+05	-3.577e+04	1.847e+04	2.479e+07	-3.832e+06	1.929e+05
5	242	131.25	-1.065e+05	-3.153e+04	1.914e+04	2.040e+07	-2.556e+06	6.221e+05
5	242	196.88	-9.615e+04	-3.164e+04	1.889e+04	1.632e+07	-1.301e+06	9.066e+05
5	242	262.50	-8.570e+04	-3.133e+04	1.788e+04	1.215e+07	-2.165e+04	1.014e+06
5	242	328.12	-7.519e+04	-3.006e+04	1.658e+04	8.216e+06	1.081e+06	9.724e+05
5	242	393.75	-6.565e+04	-2.847e+04	1.512e+04	3.905e+06	2.070e+06	7.843e+05
5	242	459.38	-5.535e+04	-2.738e+04	1.283e+04	5.930e+05	3.007e+06	4.631e+05
5	242	525.00	-4.562e+04	-2.632e+04	1.085e+04	-2.368e+06	3.841e+06	7.462e+04
5	258	0.0	-8.468e+04	-4.251e+04	3073.89	1.782e+07	-6.379e+05	-2.597e+04
5	258	65.62	-8.481e+04	-4.143e+04	3073.89	1.739e+07	-7.243e+05	1.183e+05
5	258	131.25	-7.560e+04	-3.903e+04	4599.24	1.446e+07	-4.371e+05	2.003e+05
5	258	196.88	-6.874e+04	-3.656e+04	5094.49	1.176e+07	-1.165e+05	2.889e+05
5	258	262.50	-6.131e+04	-3.437e+04	5142.20	9.172e+06	2.297e+05	2.839e+05
5	258	328.12	-5.393e+04	-3.225e+04	4961.38	6.798e+06	5.504e+05	2.438e+05
5	258	393.75	-4.659e+04	-2.983e+04	4830.17	4.561e+06	9.743e+05	1.675e+05
5	258	459.38	-3.932e+04	-2.726e+04	4708.52	2.440e+06	1.275e+06	6.273e+04
5	258	525.00	-3.212e+04	-2.444e+04	4506.93	4.537e+05	1.590e+06	-2.700e+04
5	267	0.0	-4.895e+04	1.238e+04	-1.863e+04	-1.491e+07	3.994e+06	2.405e+05
5	267	65.62	-4.907e+04	1.346e+04	-1.863e+04	-1.535e+07	3.901e+06	2.340e+04
5	267	131.25	-4.389e+04	1.422e+04	-1.690e+04	-1.327e+07	2.795e+06	-4.273e+05
5	267	196.88	-3.903e+04	1.388e+04	-1.542e+04	-1.071e+07	1.772e+06	-7.287e+05
5	267	262.50	-3.424e+04	1.378e+04	-1.400e+04	-8.190e+06	7.647e+05	-8.762e+05
5	267	328.12	-2.952e+04	1.416e+04	-1.249e+04	-5.697e+06	-8.788e+04	-8.918e+05
5	267	393.75	-2.453e+04	1.429e+04	-1.078e+04	-3.237e+06	-8.357e+05	-7.907e+05
5	267	459.38	-1.919e+04	1.495e+04	-8802.31	-9.388e+05	-1.459e+06	-5.796e+05
5	267	525.00	-1.342e+04	1.519e+04	-5555.39	8.442e+05	-1.945e+06	-2.335e+05
5	269	0.0	-4.845e+04	2.521e+04	-1.826e+04	-2.139e+07	3.996e+06	2.750e+05
5	269	65.62	-4.858e+04	2.629e+04	-1.826e+04	-2.183e+07	3.902e+06	5.545e+04

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 163 di 378

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
5	269	131.25	-4.409e+04	2.630e+04	-1.674e+04	-1.883e+07	2.809e+06	-4.025e+05
5	269	196.88	-3.892e+04	2.524e+04	-1.542e+04	-1.551e+07	1.791e+06	-7.220e+05
5	269	262.50	-3.420e+04	2.415e+04	-1.405e+04	-1.213e+07	7.909e+05	-8.725e+05
5	269	328.12	-2.953e+04	2.353e+04	-1.255e+04	-8.855e+06	-5.284e+04	-8.972e+05
5	269	393.75	-2.459e+04	2.262e+04	-1.087e+04	-5.681e+06	-8.214e+05	-8.050e+05
5	269	459.38	-1.927e+04	2.218e+04	-8923.80	-2.743e+06	-1.447e+06	-6.025e+05
5	269	525.00	-1.351e+04	2.129e+04	-5700.79	-3.848e+05	-1.947e+06	-2.574e+05
5	274	0.0	-1.071e+05	-2.942e+04	1.346e+04	1.887e+07	-2.710e+06	-9.611e+04
5	274	65.62	-1.072e+05	-2.834e+04	1.346e+04	1.844e+07	-2.793e+06	1.831e+05
5	274	131.25	-9.746e+04	-2.514e+04	1.429e+04	1.507e+07	-1.838e+06	4.895e+05
5	274	196.88	-8.790e+04	-2.520e+04	1.427e+04	1.195e+07	-8.844e+05	6.945e+05
5	274	262.50	-7.831e+04	-2.489e+04	1.359e+04	8.812e+06	8.472e+04	7.650e+05
5	274	328.12	-6.869e+04	-2.392e+04	1.266e+04	5.859e+06	9.171e+05	7.228e+05
5	274	393.75	-5.968e+04	-2.270e+04	1.160e+04	2.691e+06	1.689e+06	5.689e+05
5	274	459.38	-5.025e+04	-2.179e+04	9933.57	1.417e+05	2.416e+06	3.142e+05
5	274	525.00	-4.117e+04	-2.086e+04	8622.67	-2.150e+06	3.068e+06	2.251e+04
5	299	0.0	-5.605e+04	7033.17	-1.423e+04	-1.098e+07	3.085e+06	2.010e+05
5	299	65.62	-5.618e+04	8115.35	-1.423e+04	-1.142e+07	2.993e+06	5.330e+04
5	299	131.25	-5.048e+04	8864.65	-1.264e+04	-9.977e+06	2.167e+06	-2.960e+05
5	299	196.88	-4.506e+04	8697.92	-1.140e+04	-8.126e+06	1.412e+06	-5.302e+05
5	299	262.50	-3.973e+04	8654.58	-1.027e+04	-6.279e+06	6.724e+05	-6.500e+05
5	299	328.12	-3.446e+04	8969.92	-9092.38	-4.441e+06	5.109e+04	-6.724e+05
5	299	393.75	-2.898e+04	9118.84	-7762.87	-2.632e+06	-4.881e+05	-6.087e+05
5	299	459.38	-2.322e+04	9694.23	-6217.68	-9.567e+05	-9.303e+05	-4.627e+05
5	299	525.00	-1.710e+04	9965.46	-3683.34	3.123e+05	-1.264e+06	-2.028e+05
5	301	0.0	-5.569e+04	1.635e+04	-1.396e+04	-1.569e+07	3.086e+06	2.260e+05
5	301	65.62	-5.582e+04	1.743e+04	-1.396e+04	-1.613e+07	2.994e+06	7.661e+04
5	301	131.25	-5.063e+04	1.764e+04	-1.253e+04	-1.401e+07	2.177e+06	-2.779e+05
5	301	196.88	-4.498e+04	1.694e+04	-1.140e+04	-1.161e+07	1.425e+06	-5.253e+05
5	301	262.50	-3.970e+04	1.618e+04	-1.031e+04	-9.139e+06	6.916e+05	-6.473e+05
5	301	328.12	-3.447e+04	1.577e+04	-9135.86	-6.734e+06	7.692e+04	-6.763e+05
5	301	393.75	-2.904e+04	1.516e+04	-7832.99	-4.409e+06	-4.777e+05	-6.191e+05
5	301	459.38	-2.329e+04	1.494e+04	-6305.89	-2.270e+06	-9.216e+05	-4.795e+05
5	301	525.00	-1.717e+04	1.439e+04	-3788.48	-5.852e+05	-1.266e+06	-2.204e+05
5	302	0.0	-9.742e+04	-3.362e+04	1.078e+04	1.667e+07	-2.149e+06	-5.383e+04
5	302	65.62	-9.754e+04	-3.254e+04	1.078e+04	1.623e+07	-2.233e+06	2.002e+05
5	302	131.25	-8.832e+04	-3.122e+04	1.174e+04	1.334e+07	-1.458e+06	4.402e+05
5	302	196.88	-7.992e+04	-2.993e+04	1.177e+04	1.049e+07	-6.768e+05	6.064e+05
5	302	262.50	-7.142e+04	-2.885e+04	1.126e+04	7.800e+06	1.208e+05	6.486e+05
5	302	328.12	-6.294e+04	-2.815e+04	1.051e+04	5.252e+06	8.260e+05	5.941e+05
5	302	393.75	-5.461e+04	-2.710e+04	9653.91	2.760e+06	1.501e+06	4.495e+05
5	302	459.38	-4.640e+04	-2.615e+04	8754.01	3.495e+05	2.104e+06	2.273e+05
5	302	525.00	-3.823e+04	-2.481e+04	7209.66	-1.797e+06	2.651e+06	-7642.94
5	306	0.0	-9.920e+04	-2.398e+04	9583.04	1.408e+07	-1.891e+06	-4.886e+04
5	306	65.62	-9.932e+04	-2.290e+04	9583.04	1.364e+07	-1.975e+06	1.718e+05
5	306	131.25	-9.024e+04	-2.034e+04	1.050e+04	1.105e+07	-1.272e+06	3.844e+05
5	306	196.88	-8.133e+04	-2.031e+04	1.064e+04	8.690e+06	-5.600e+05	5.260e+05
5	306	262.50	-7.244e+04	-2.004e+04	1.021e+04	6.336e+06	1.675e+05	5.680e+05
5	306	328.12	-6.353e+04	-1.929e+04	9574.93	4.133e+06	7.973e+05	5.259e+05
5	306	393.75	-5.507e+04	-1.833e+04	8842.00	1.769e+06	1.386e+06	4.004e+05
5	306	459.38	-4.627e+04	-1.757e+04	7688.70	-1.537e+05	1.946e+06	2.007e+05
5	306	525.00	-3.770e+04	-1.678e+04	6841.62	-1.910e+06	2.456e+06	-1.268e+04
M_S			N memb.	V memb.	V orto	M memb.	M orto	T
			-1.171e+05	-5.582e+04	-2.438e+04	-2.930e+07	-3.832e+06	-1.178e+06
			-8509.11	3.809e+04	1.914e+04	2.523e+07	5.152e+06	1.014e+06

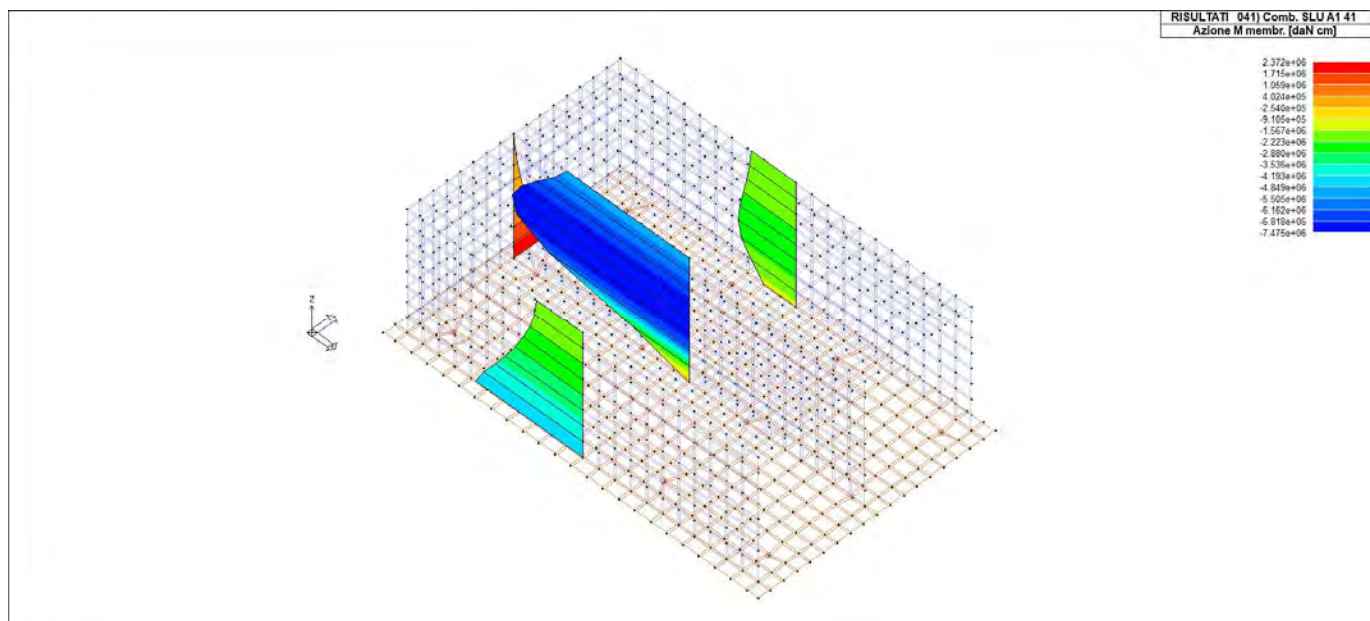


Figura 75 - RIS_M_041_Comb SLU A1 41

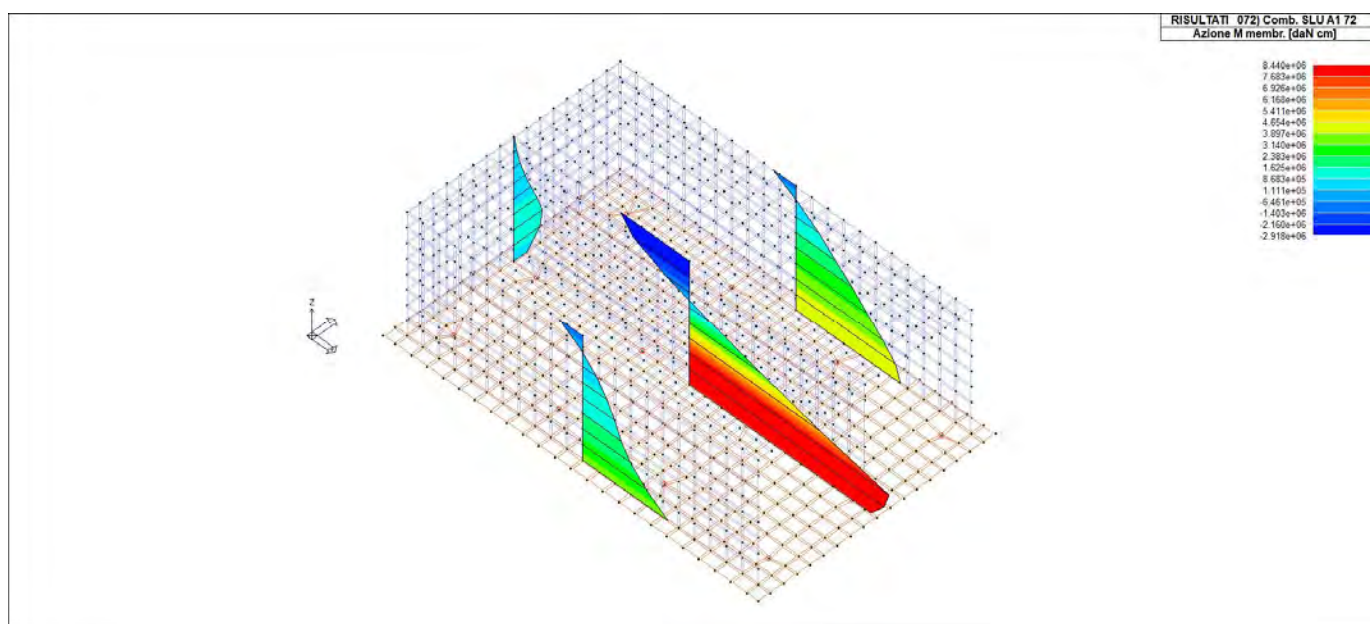


Figura 76 - RIS_M_072_Comb SLU A1 72

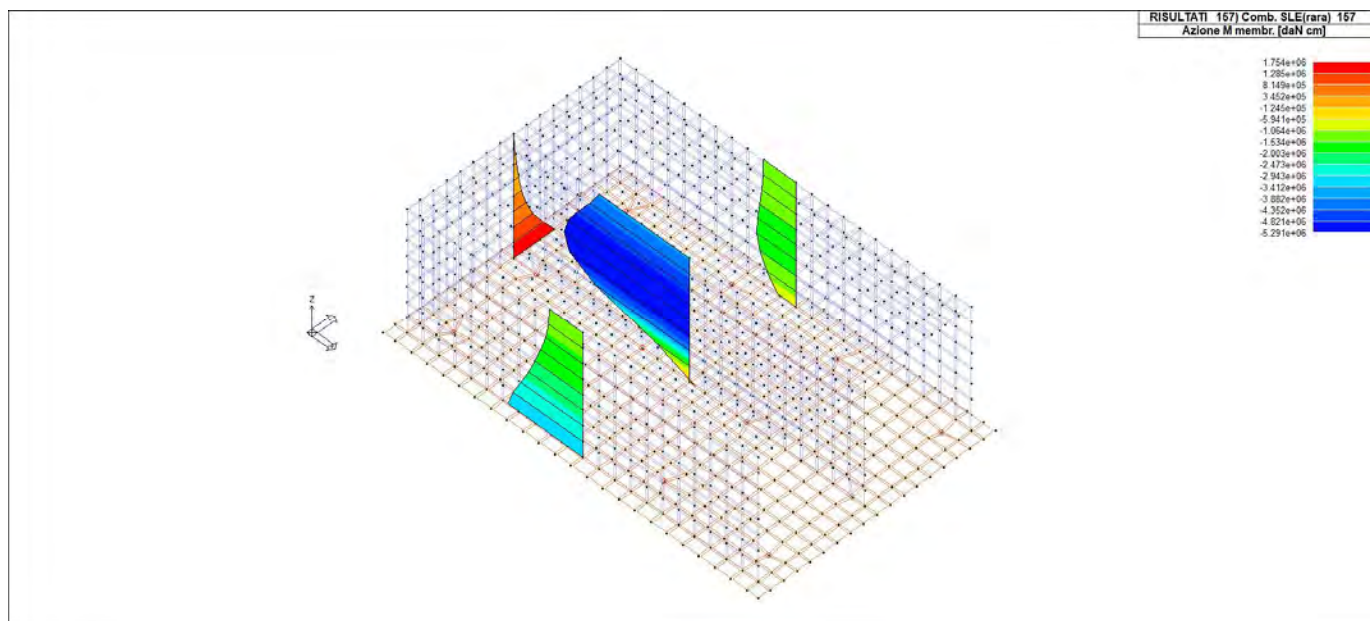


Figura 77 - RIS_M_157_Comb SLE(rara) 157

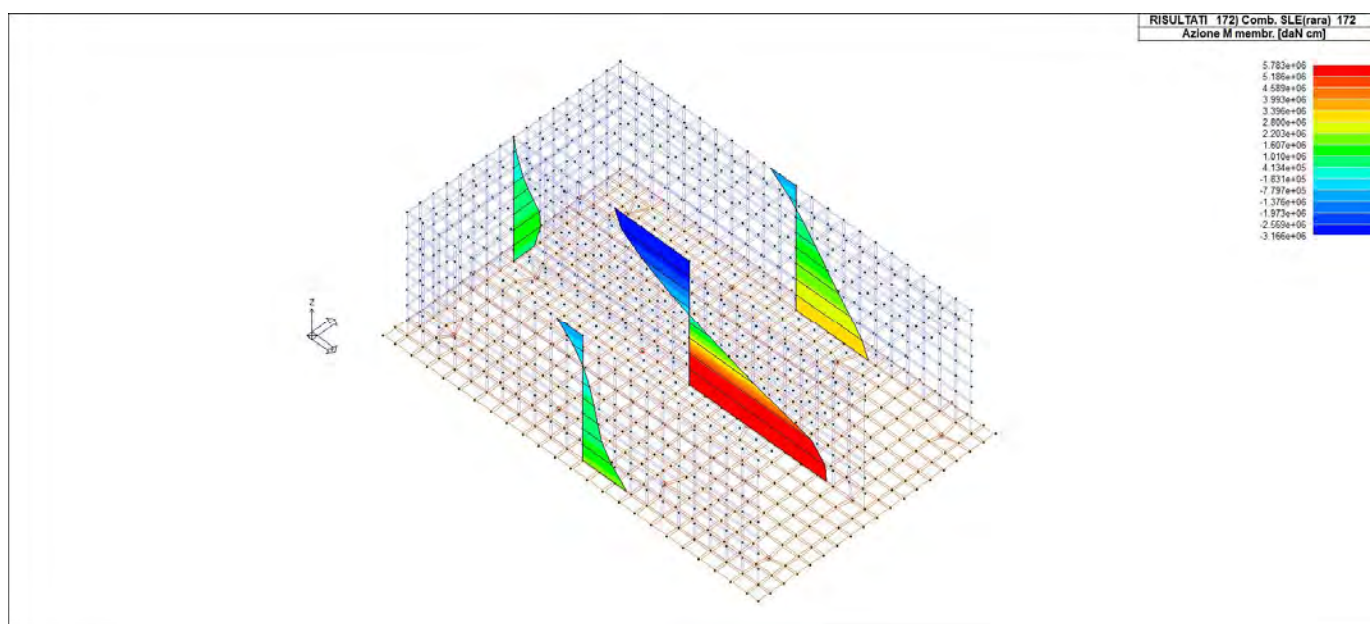


Figura 78 - RIS_M_172_Comb SLE(rara) 172

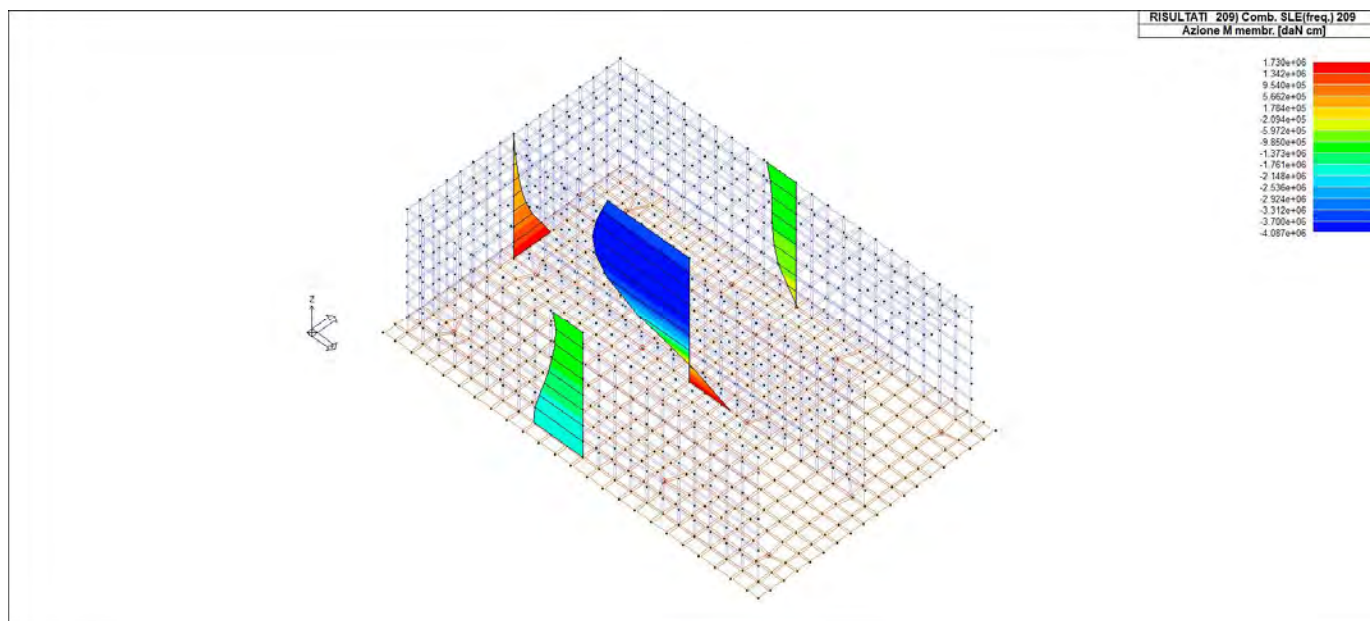


Figura 79 - RIS_M_209_Comb SLEfreq 209

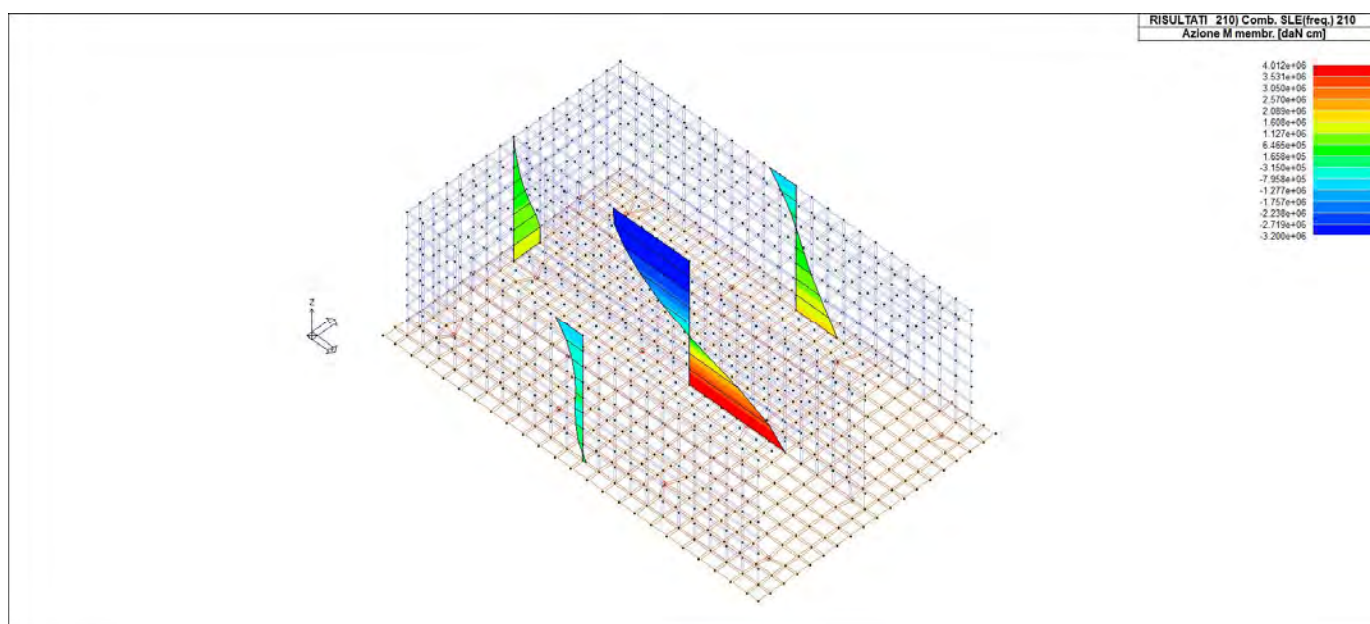


Figura 80 - RIS_M_210_Comb SLEfreq 210

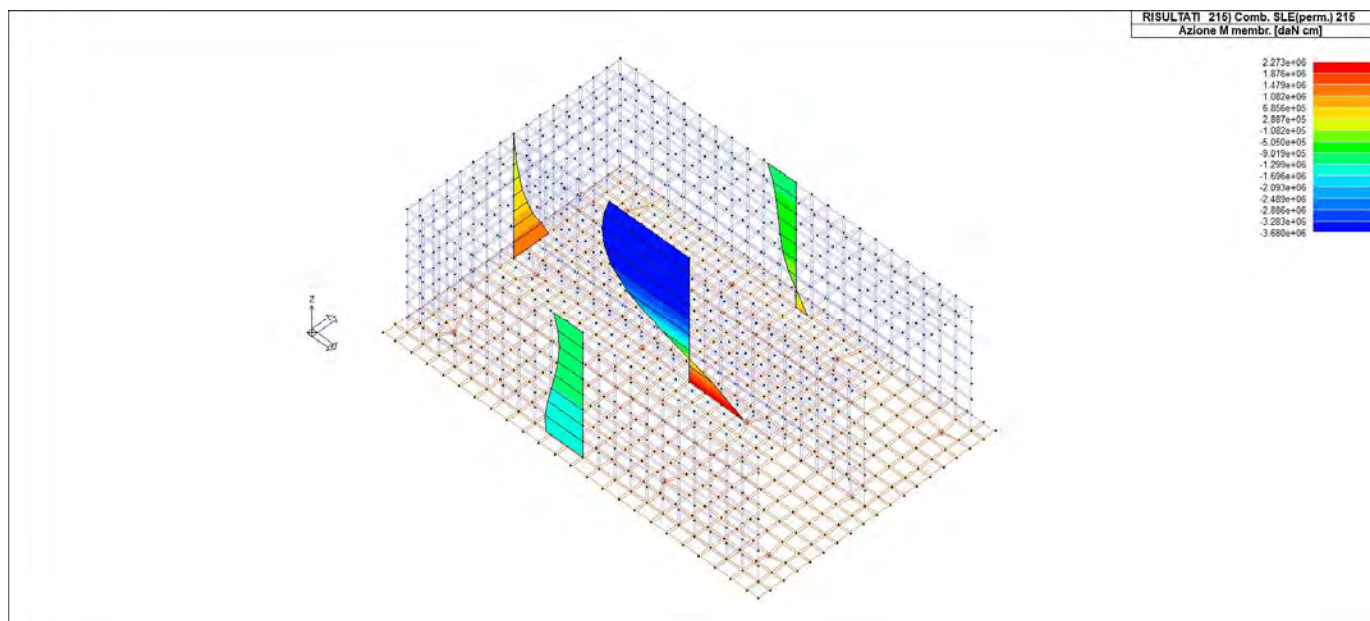


Figura 81 - RIS_M_215_Comb SLEperm 215

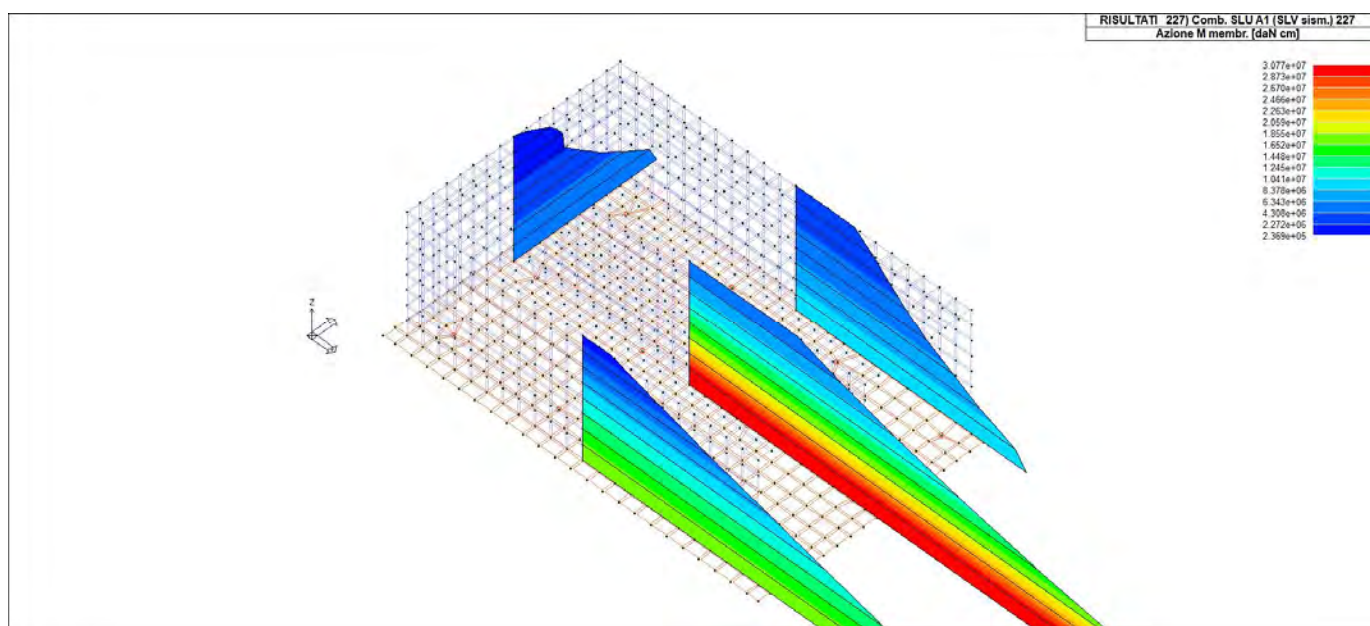


Figura 82 - RIS_M_227_Comb SLU A1 SLV sism 227

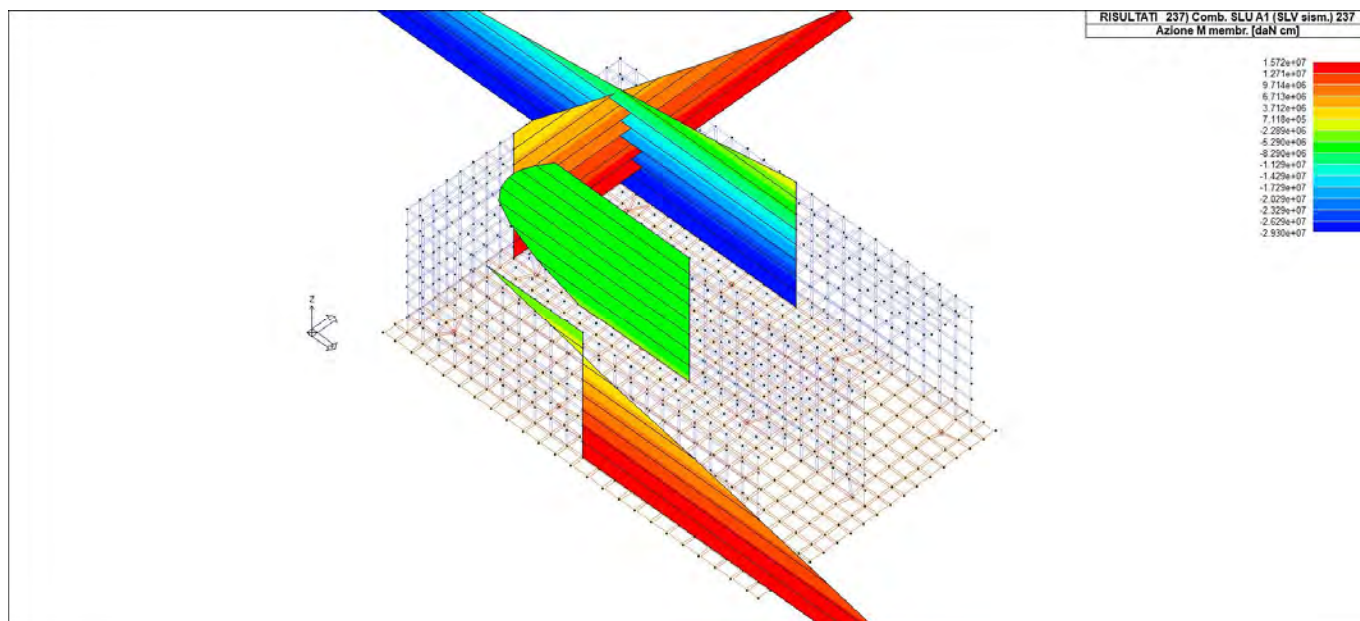


Figura 83 - RIS_M_237_Comb SLU A1 SLV sism 237

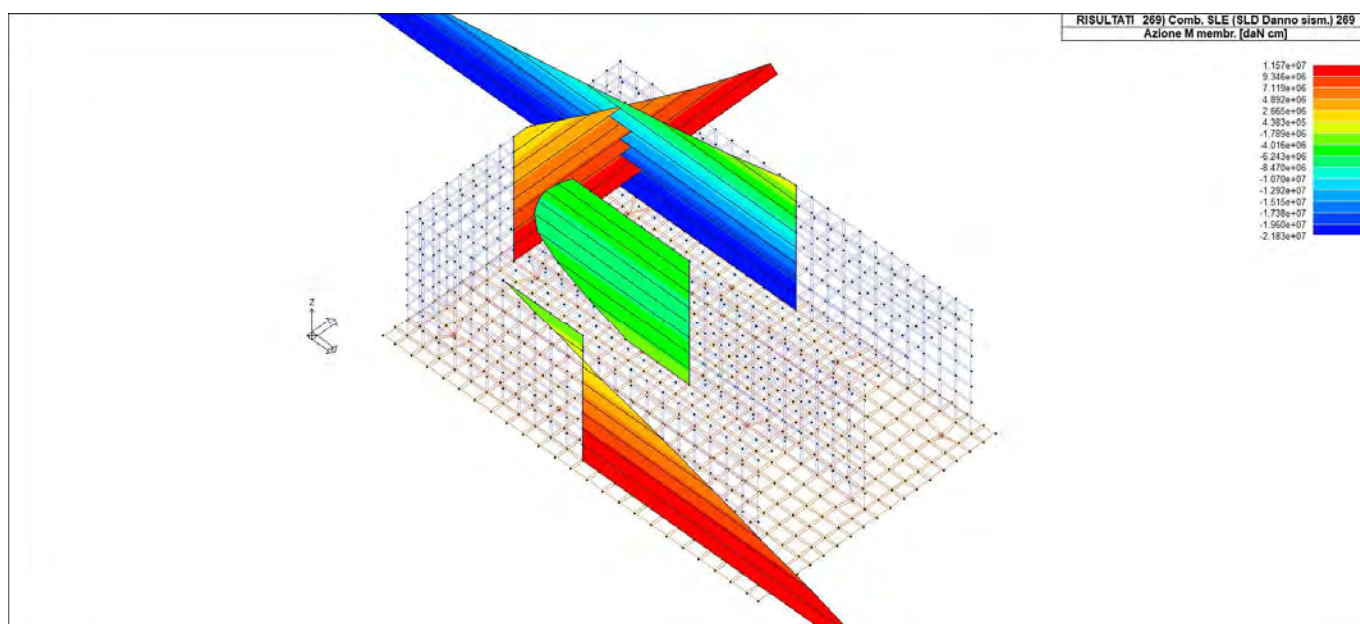


Figura 84 - RIS_M_269_Comb SLE SLD Danno sism 269

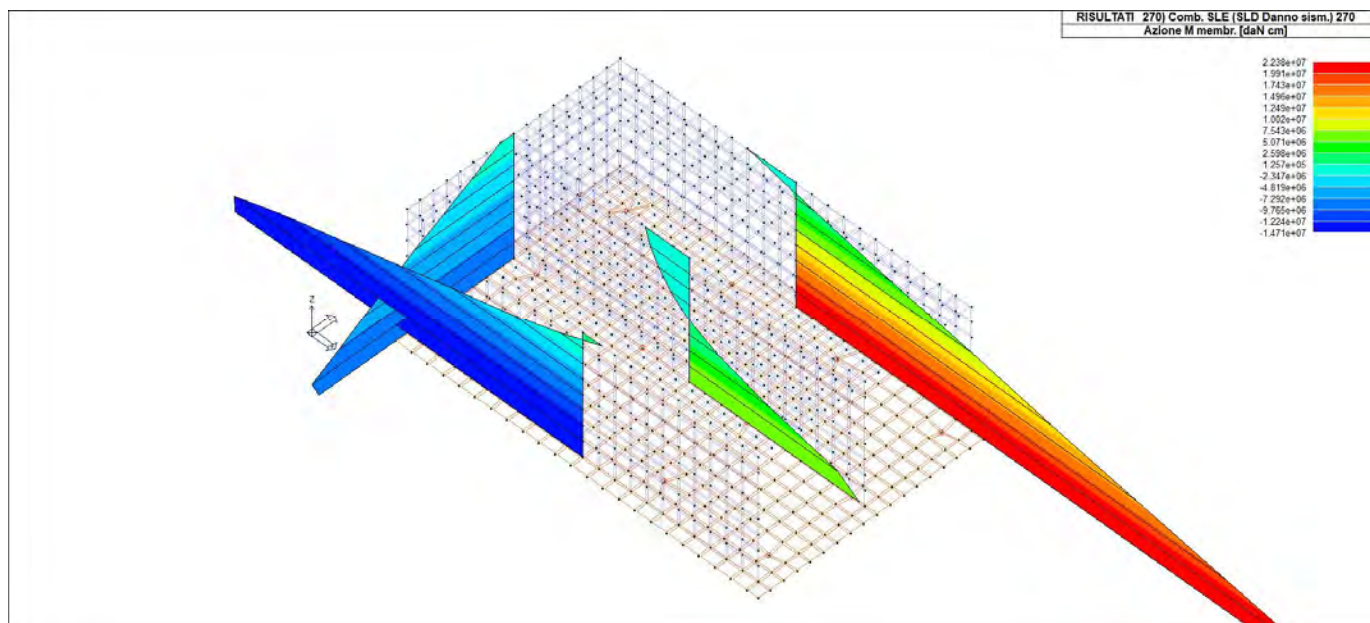


Figura 85 - RIS_M_270_Comb SLE SLD Danno sism 270

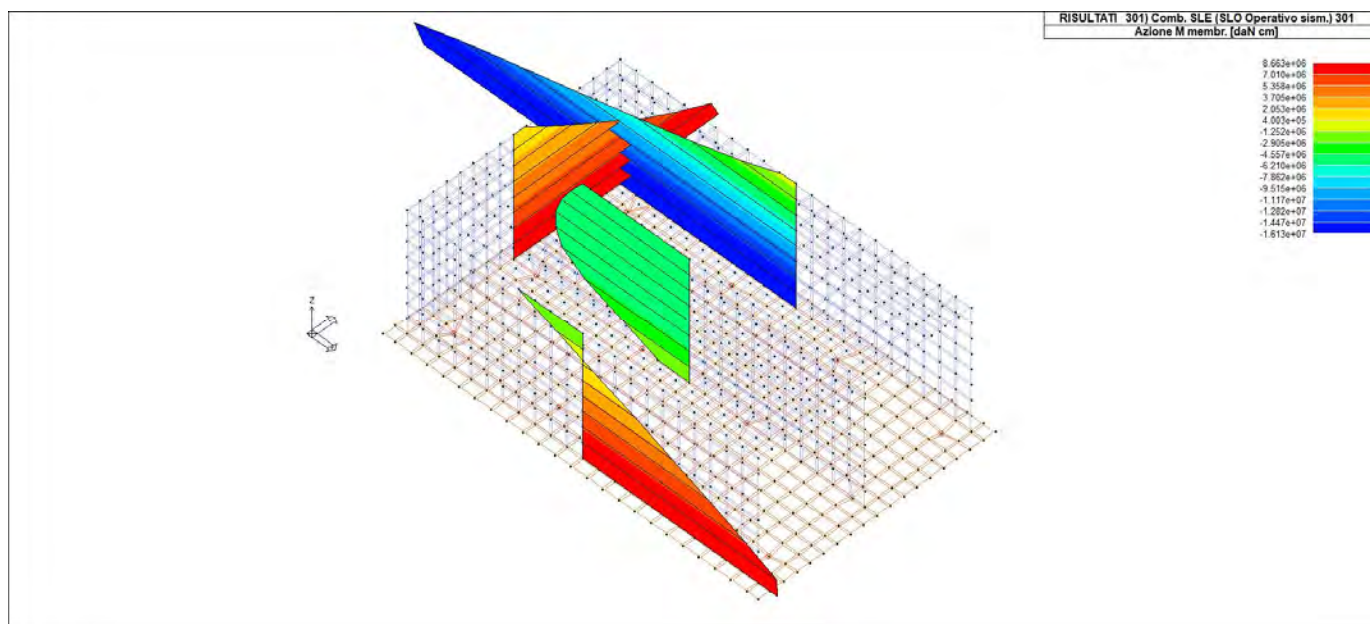


Figura 86 - RIS_M_301_Comb SLE SLO Operativo sism 301

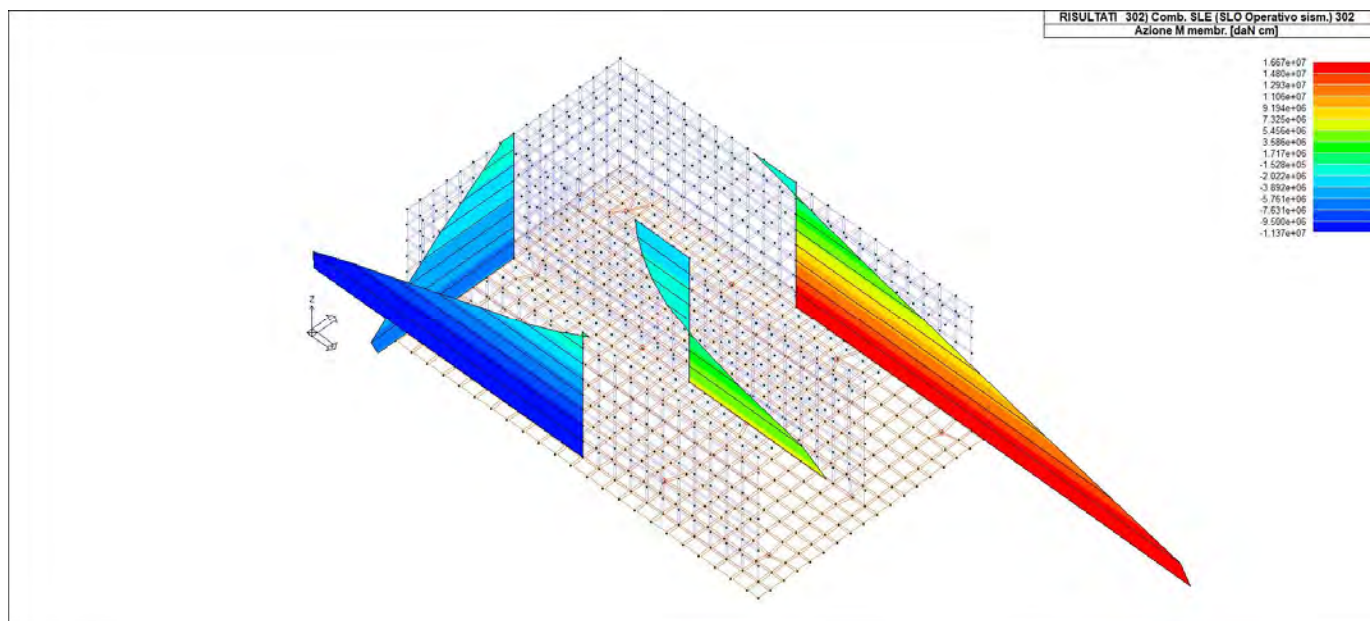


Figura 87 - RIS_M_302_Comb SLE SLO Operativo sism 302

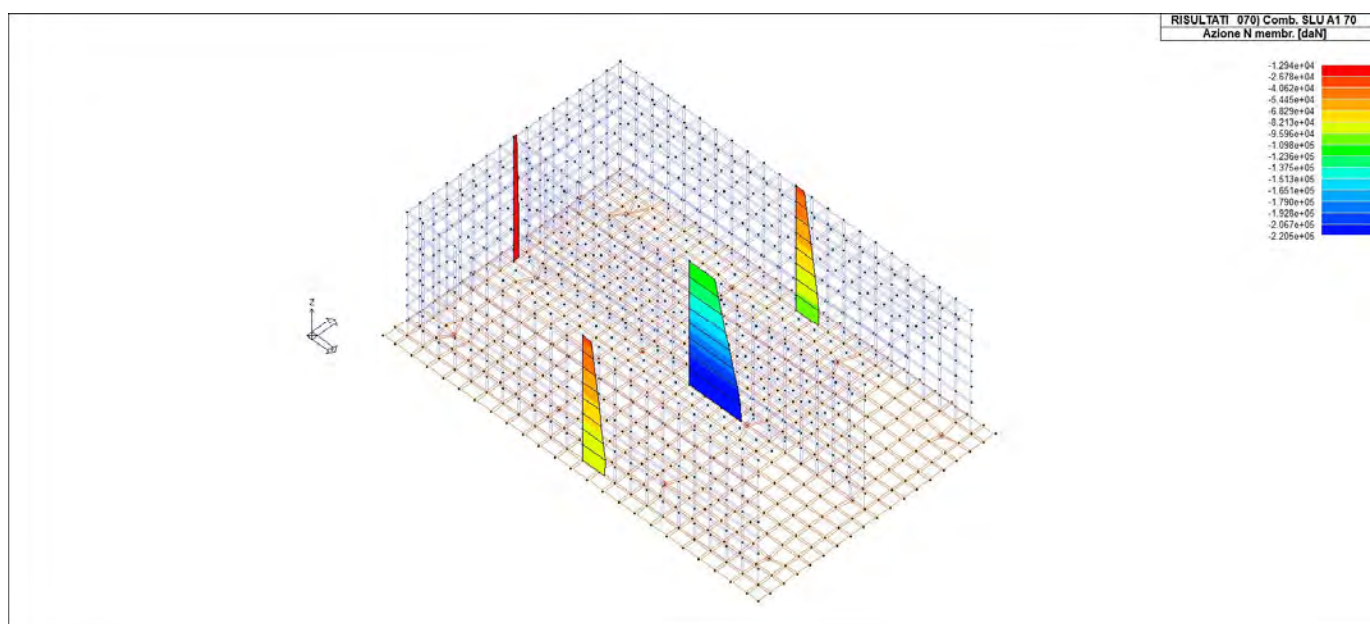


Figura 88 - RIS_N_070_Comb SLU A1 70

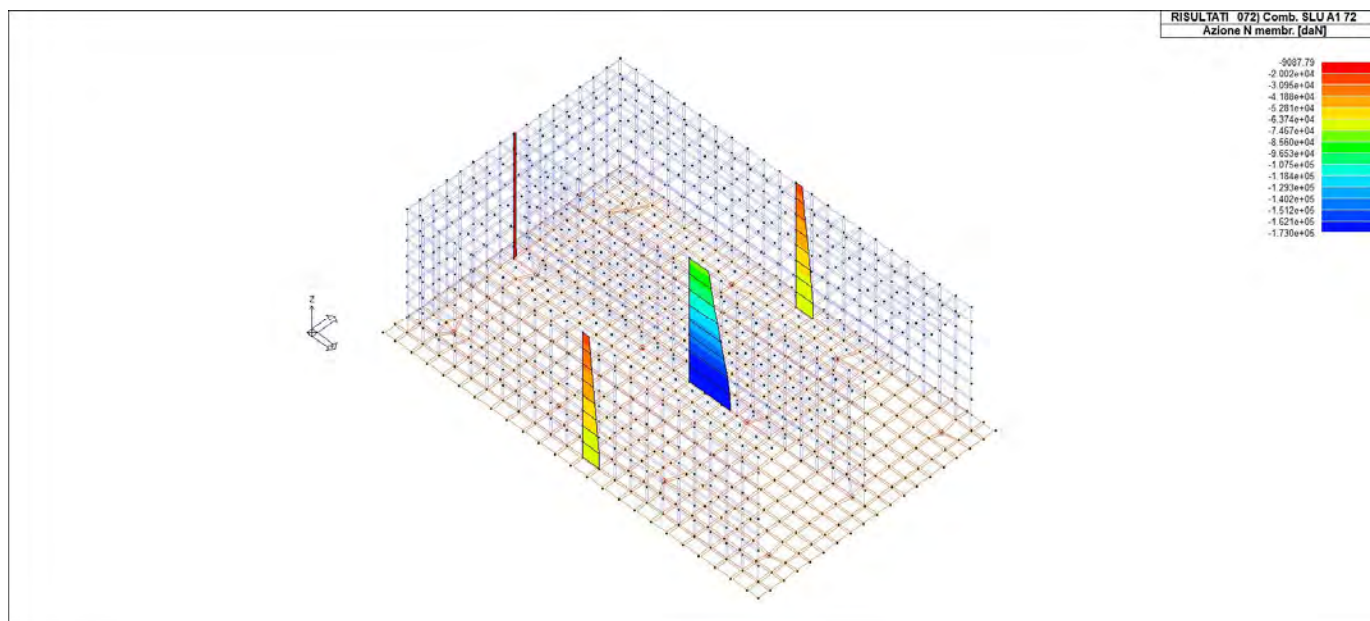


Figura 89 - RIS_N_072_Comb SLU A1 72

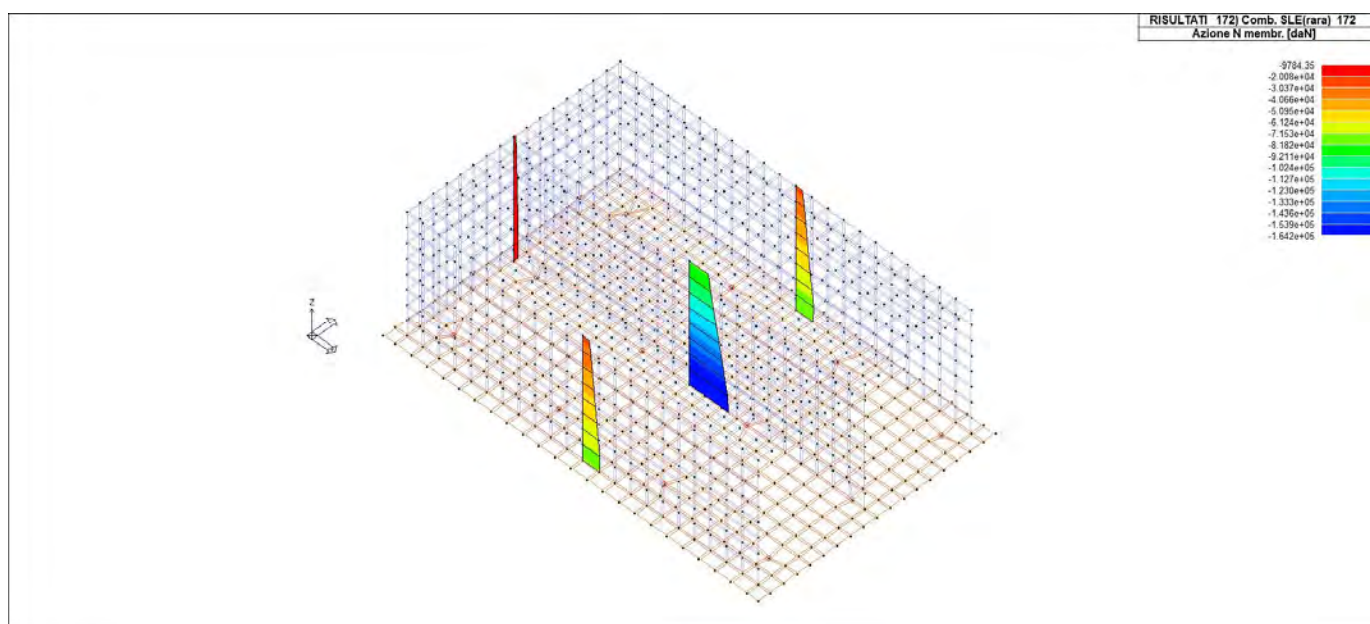


Figura 90 - RIS_N_172_Comb SLE(rara) 172

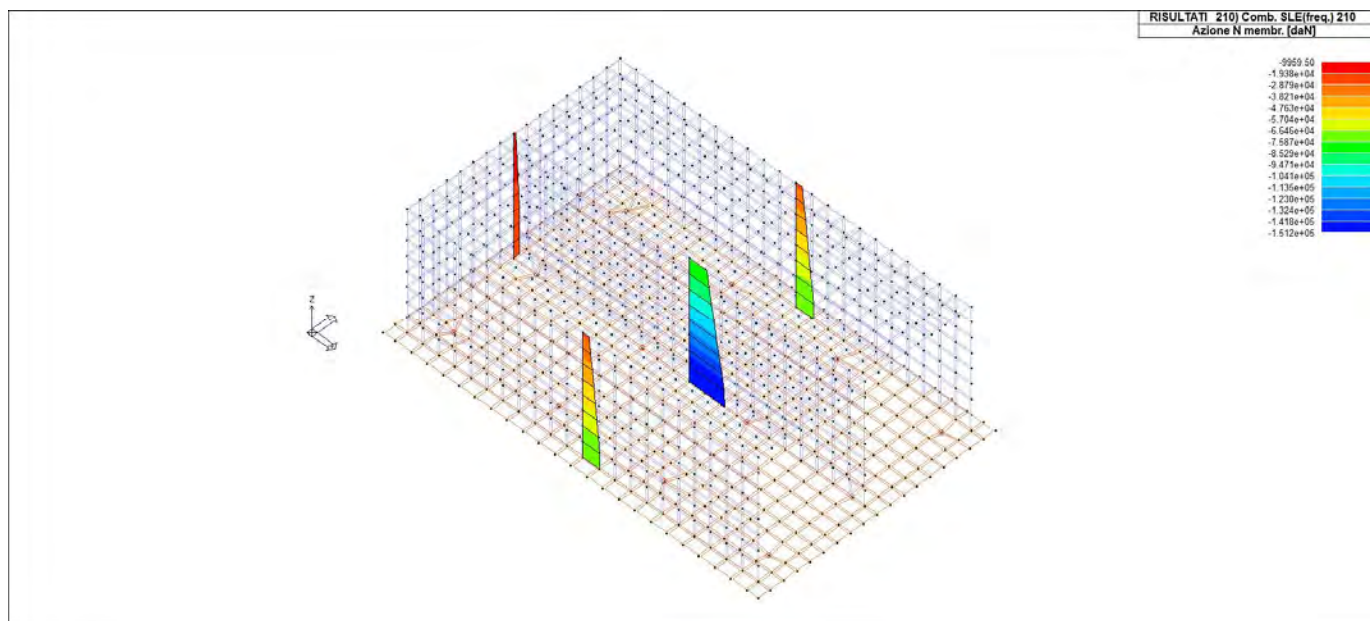


Figura 91 - RIS_N_210_Comb SLEfreq 210

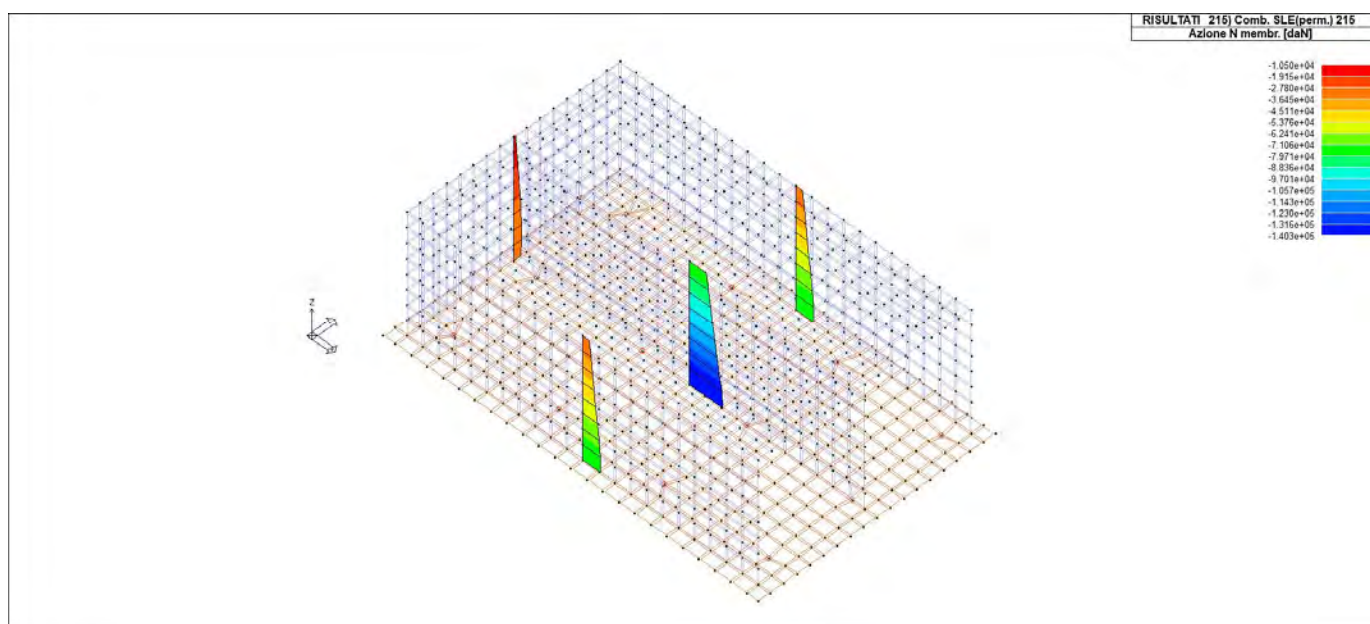


Figura 92 - RIS_N_215_Comb SLEperm 215

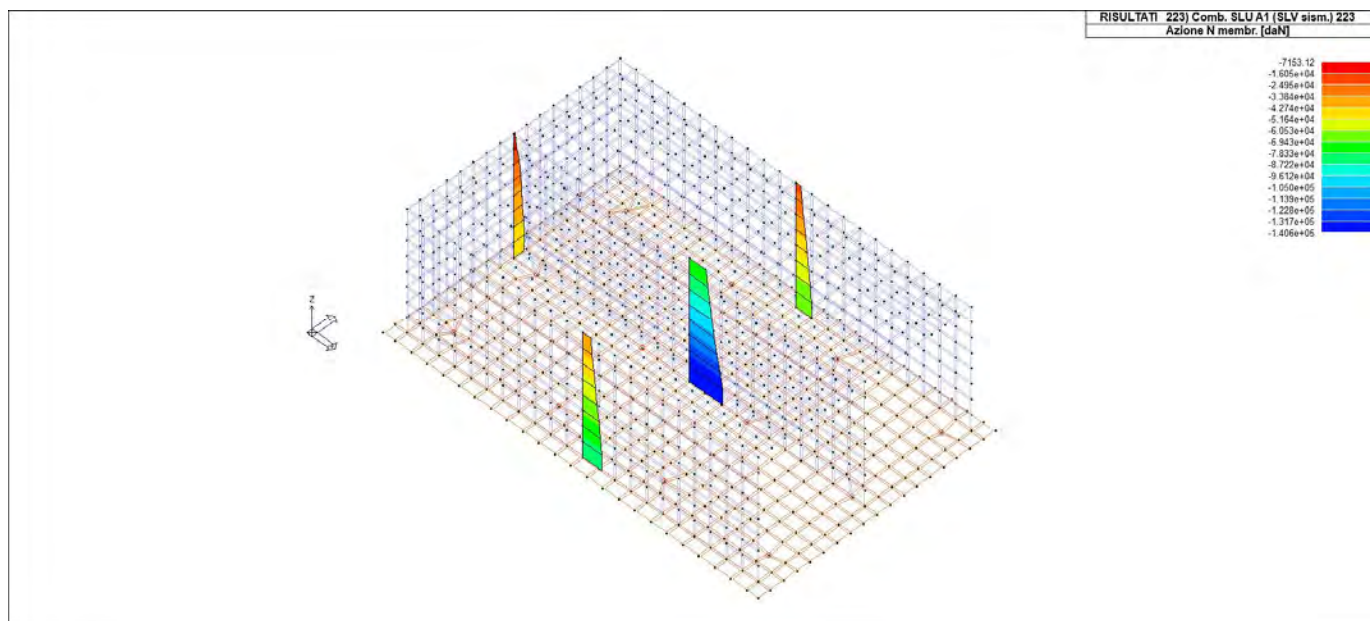


Figura 93 - RIS_N_223_Comb SLU A1 SLV sism 223

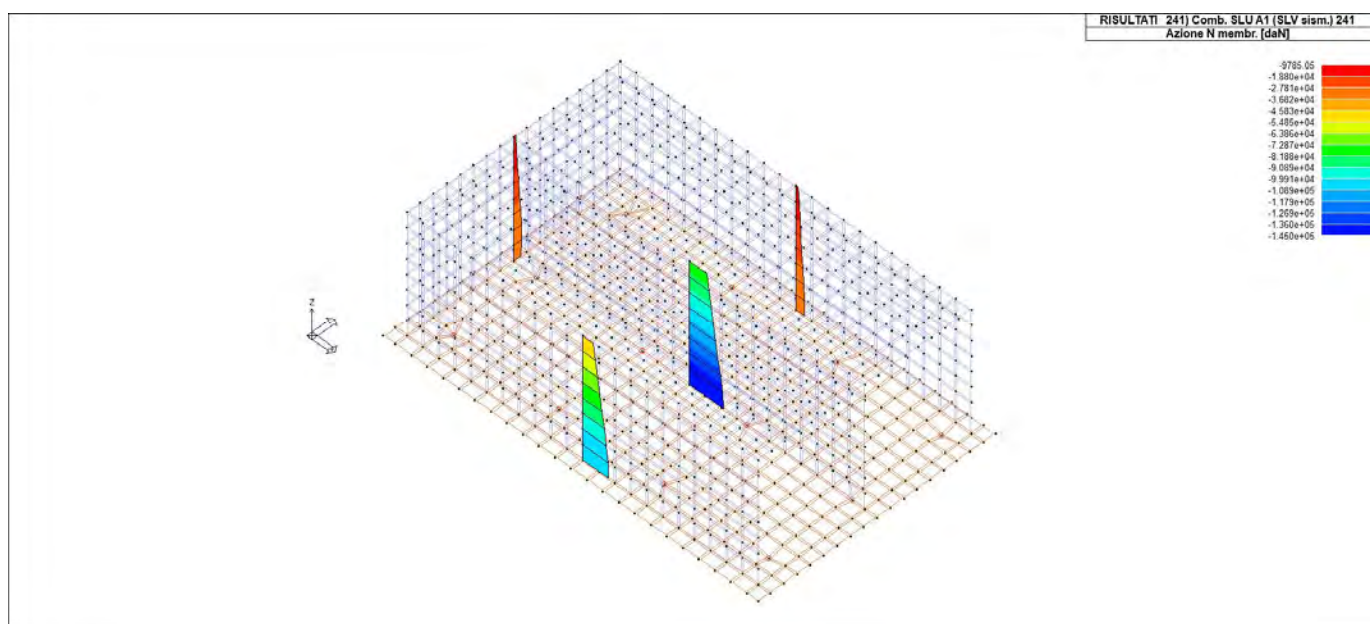


Figura 94 - RIS_N_241_Comb SLU A1 SLV sism 241

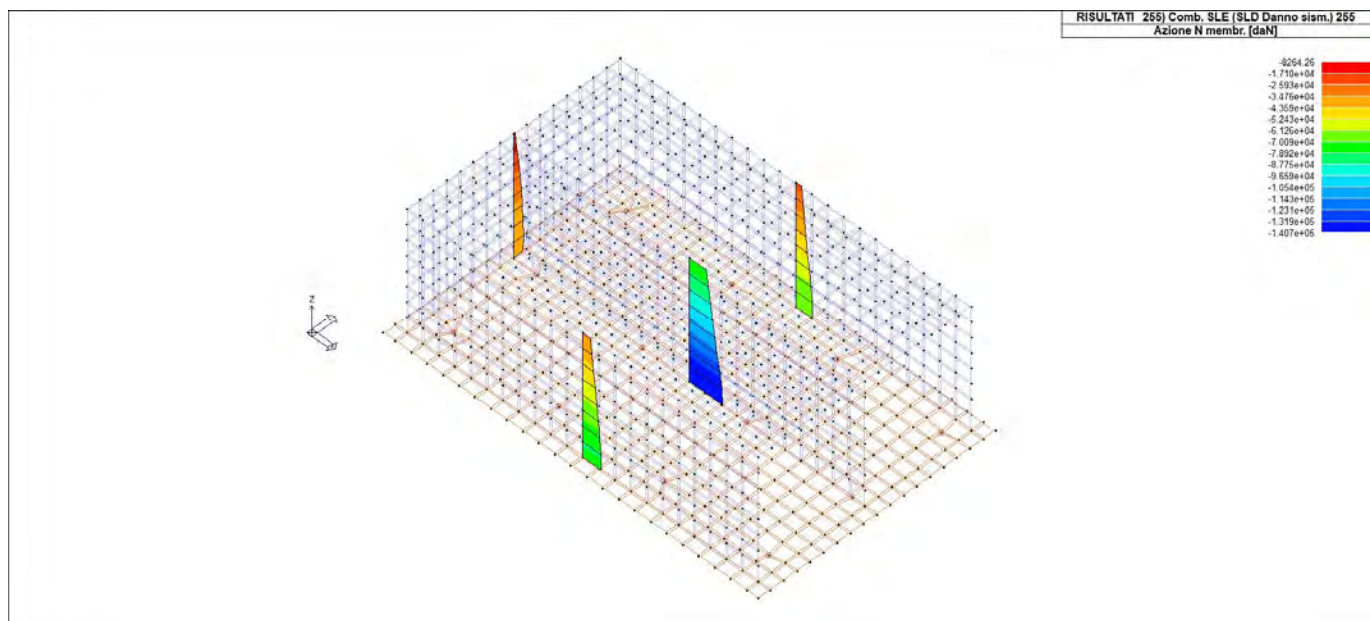


Figura 95 - RIS_N_255_Comb SLE SLD Danno sism 255

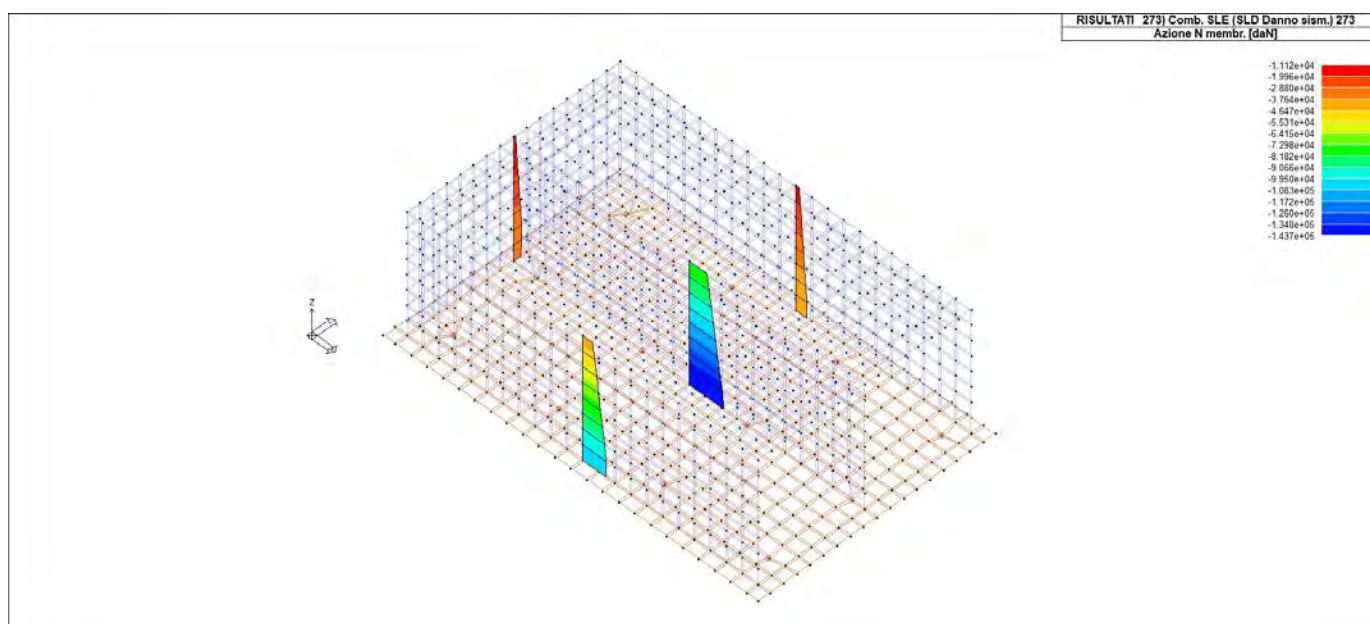


Figura 96 - RIS_N_273_Comb SLE SLD Danno sism 273

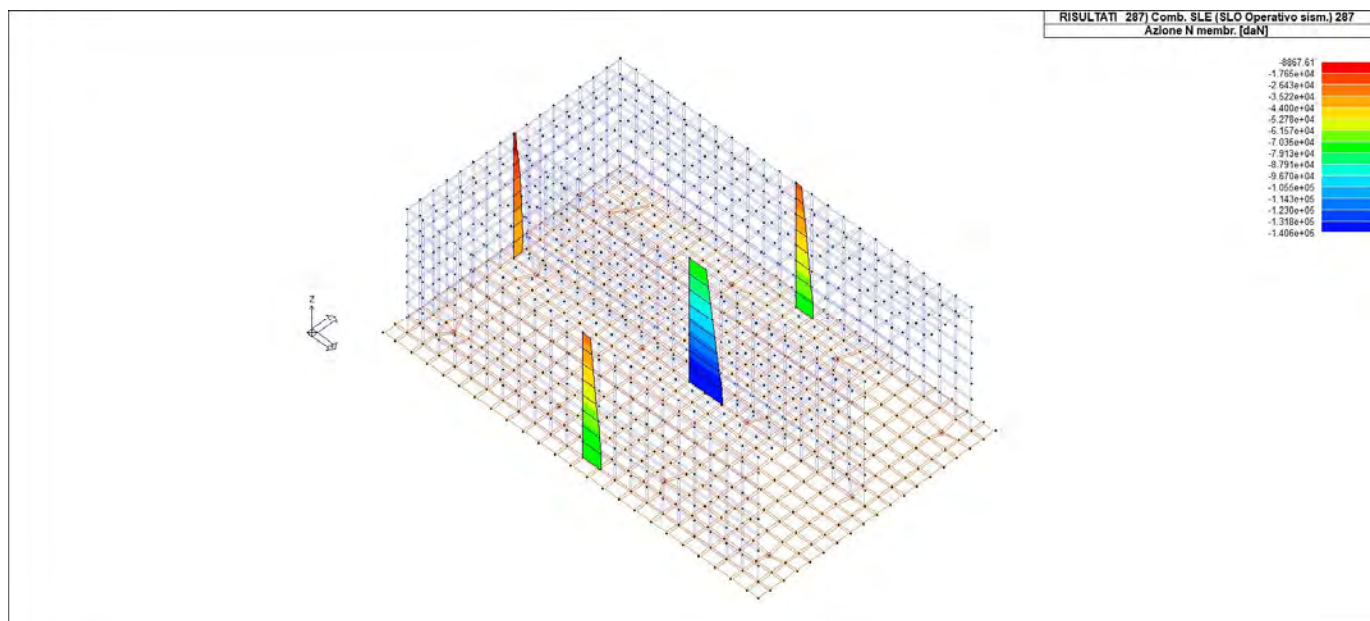


Figura 97 - RIS_N_287_Comb SLE SLO Operativo sism 287

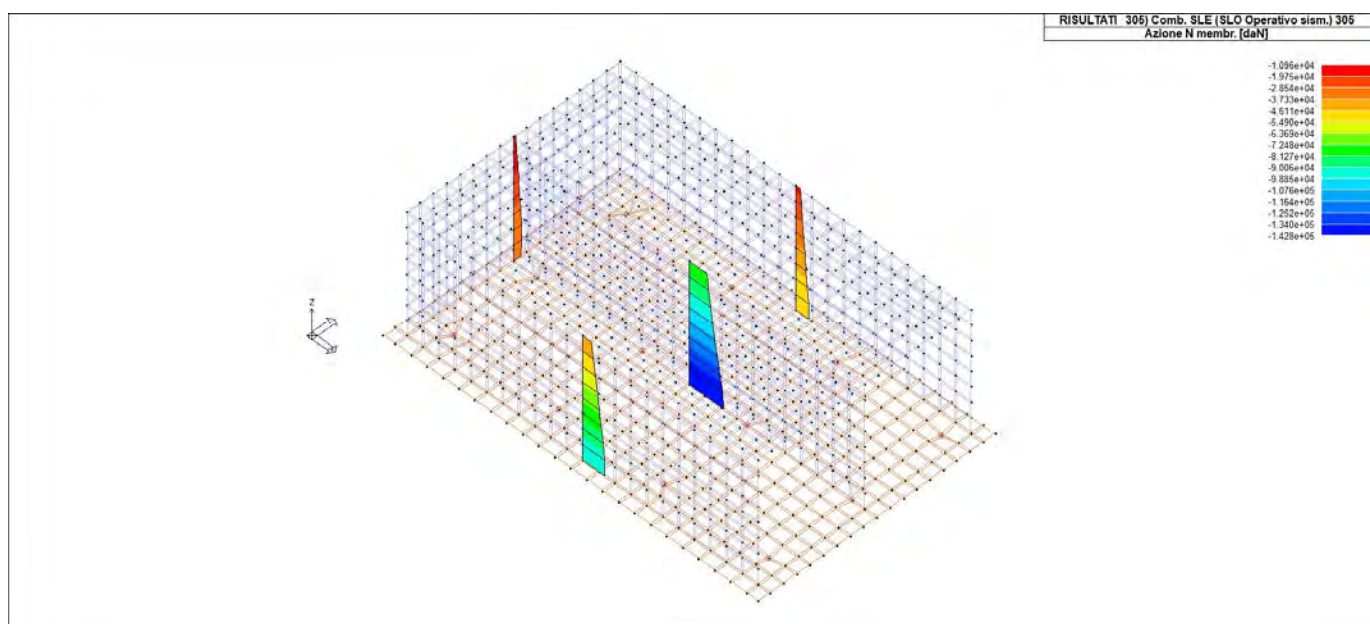


Figura 98 - RIS_N_305_Comb SLE SLO Operativo sism 305

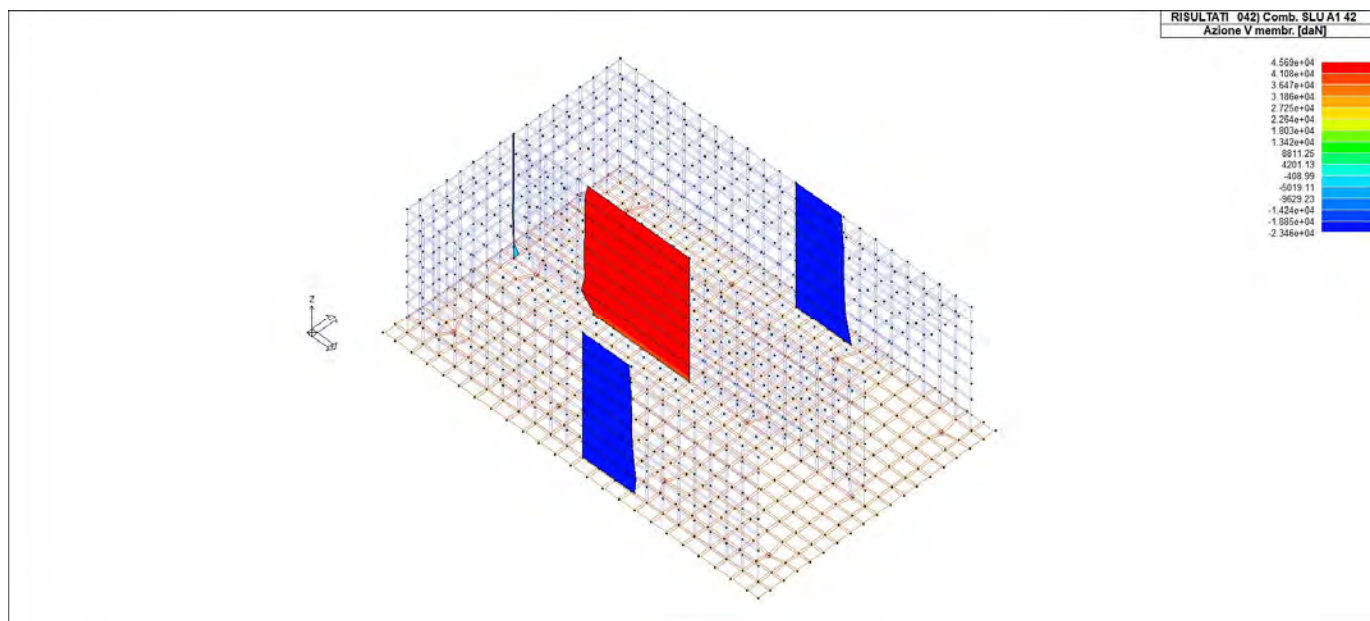


Figura 99 - RIS_V_042_Comb SLU A1 42

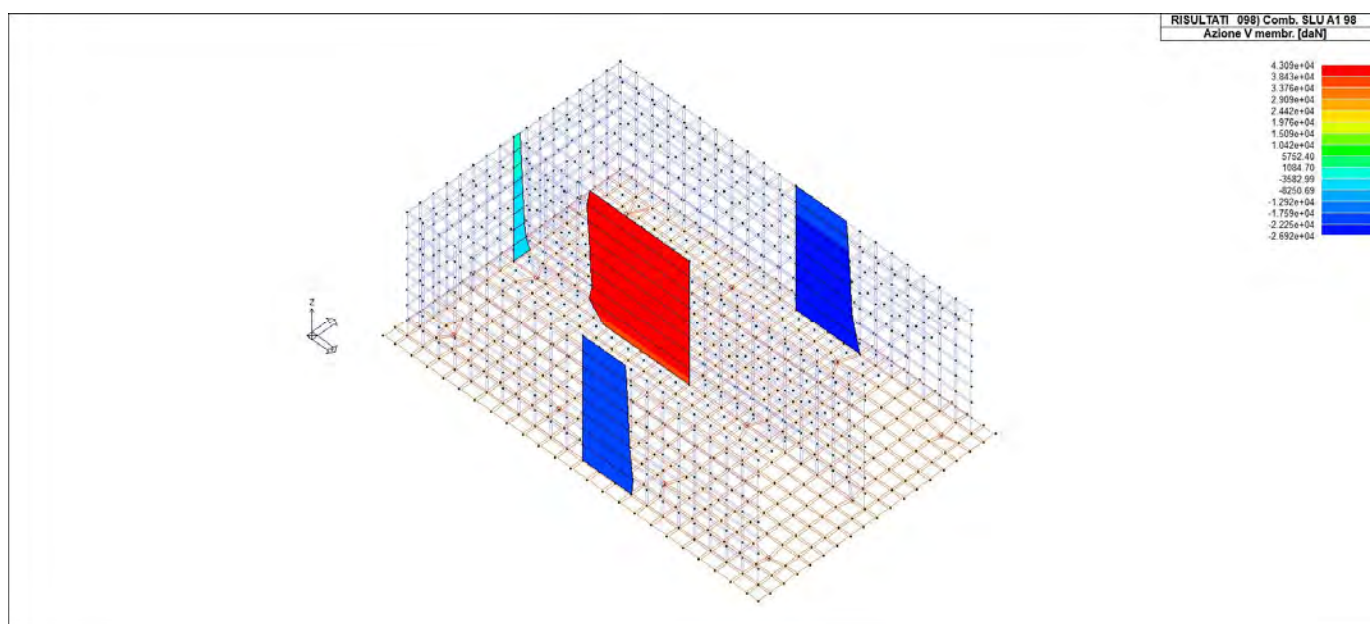


Figura 100 - RIS_V_098_Comb SLU A1 98

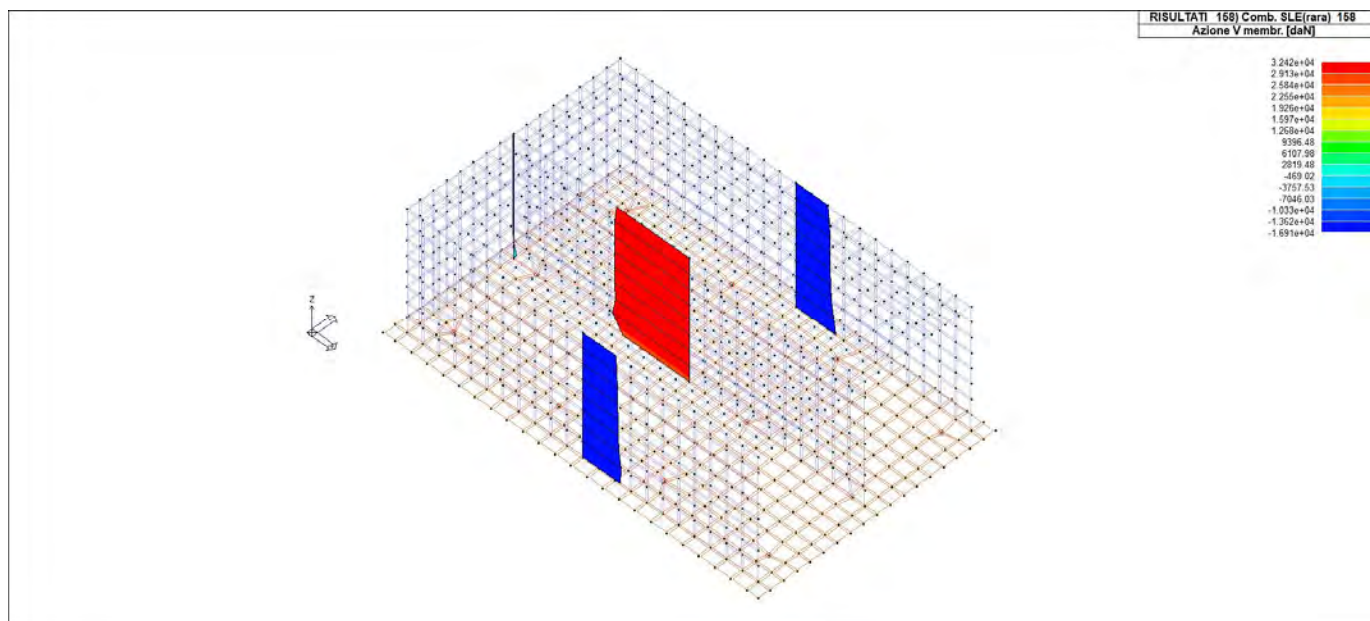


Figura 101 - RIS_V_158_Comb SLErara 158

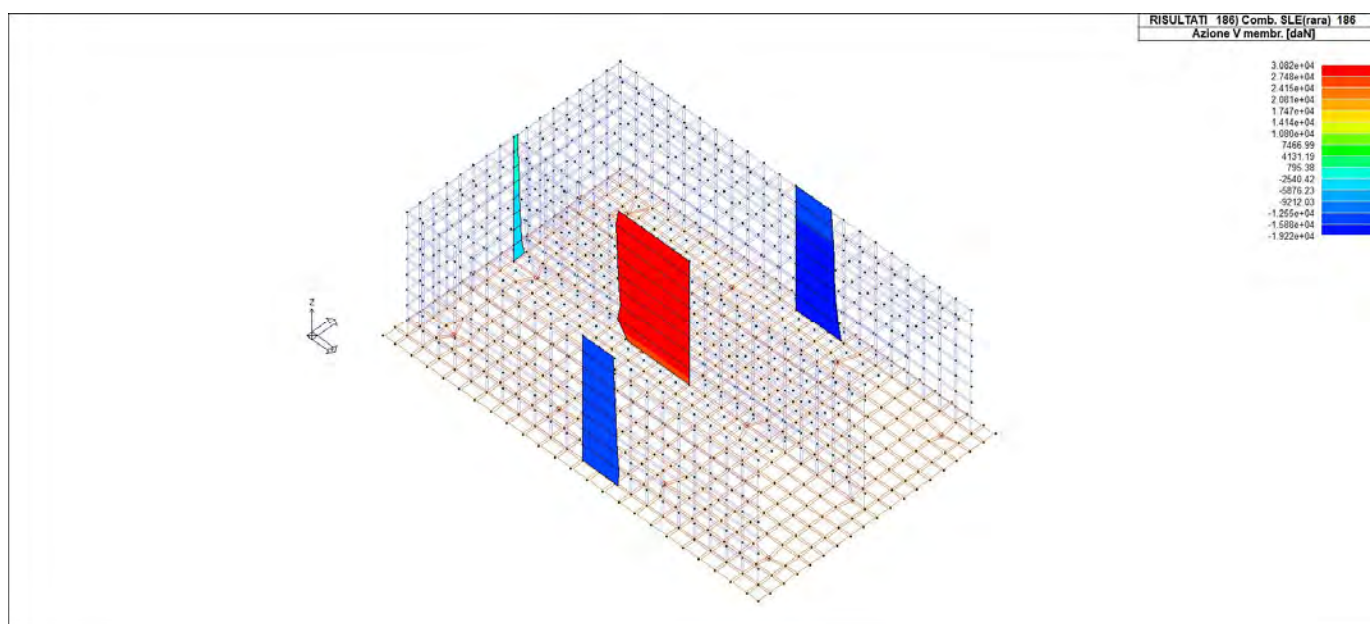


Figura 102 - RIS_V_186_Comb SLErara 186

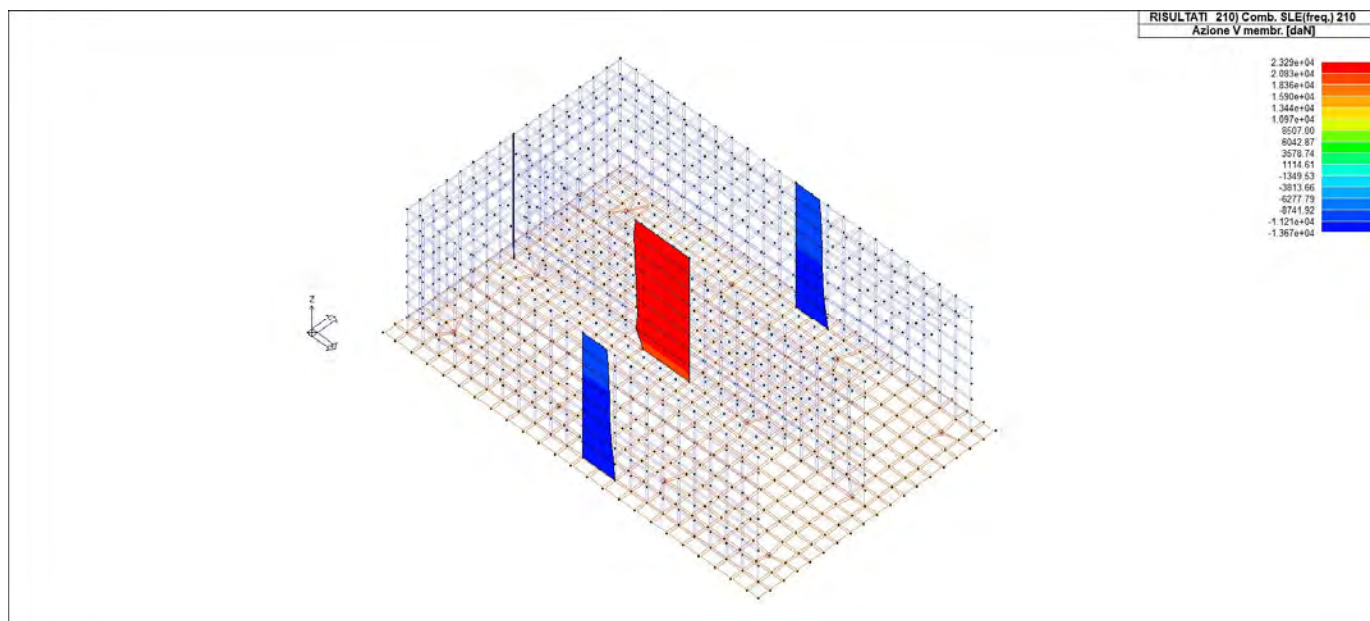


Figura 103 - RIS_V_210_Comb SLEfreq 210

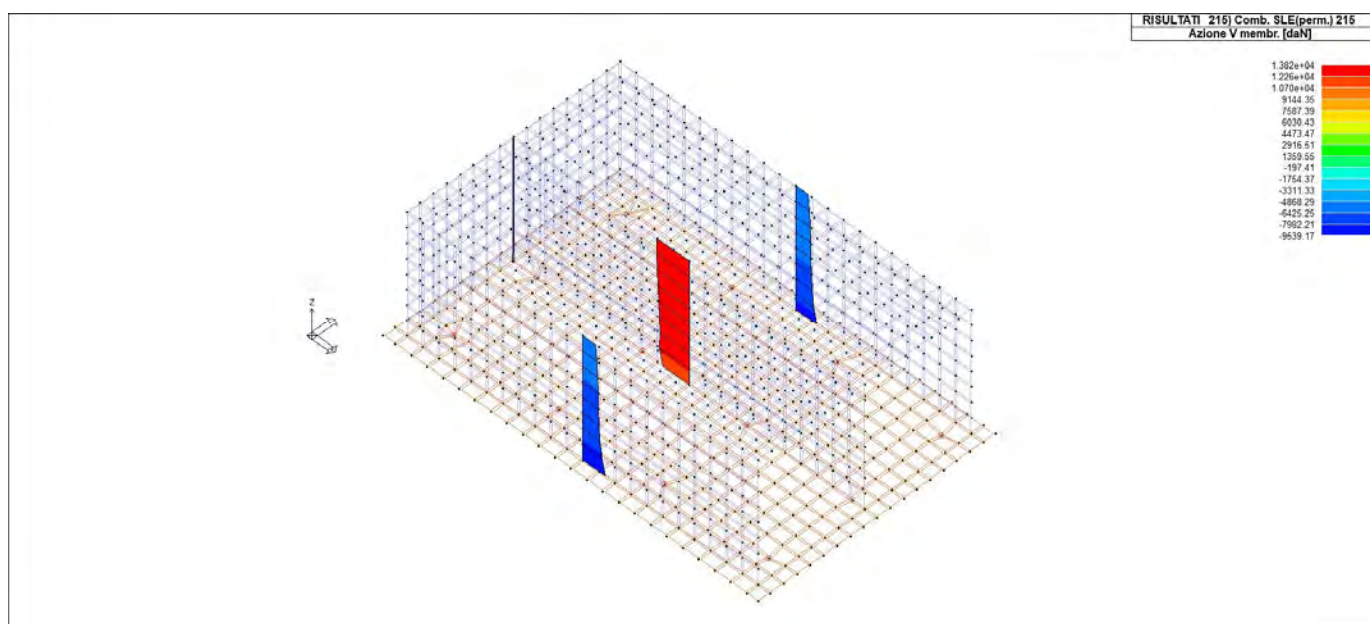


Figura 104 - RIS_V_215_Comb SLEperm 215

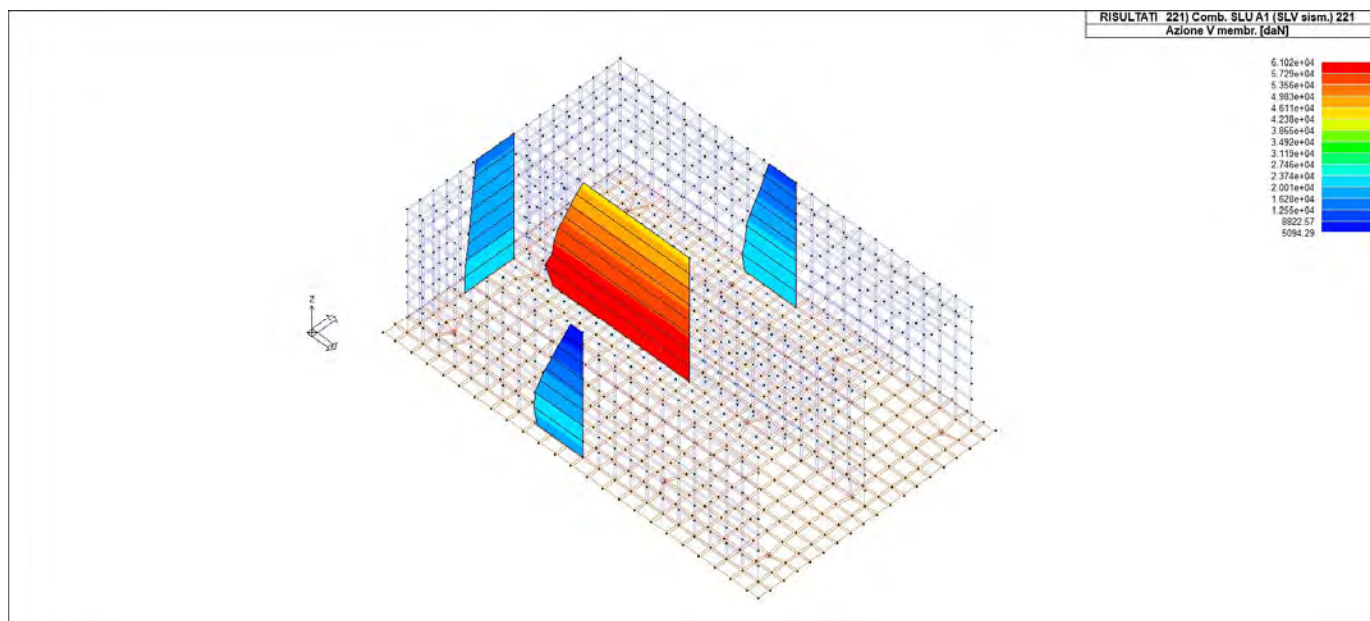


Figura 105 - RIS_V_221_Comb SLU A1 SLV sism 221

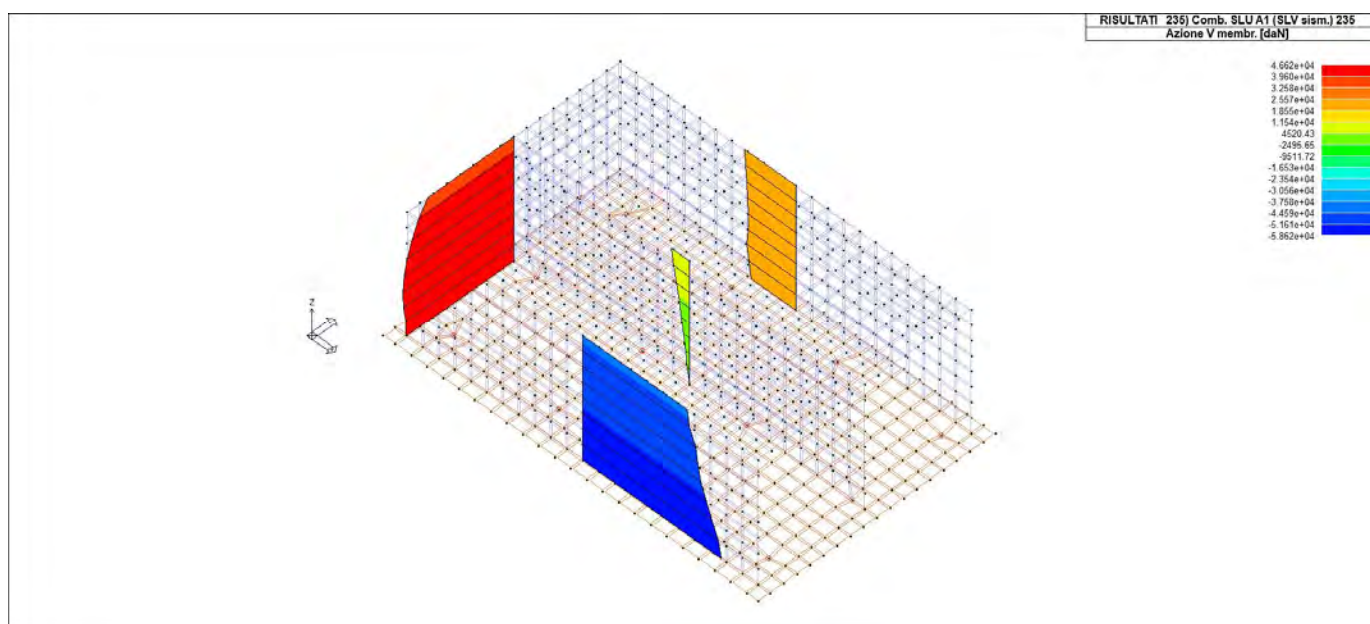


Figura 106 - RIS_V_235_Comb SLU A1 SLV sism 235

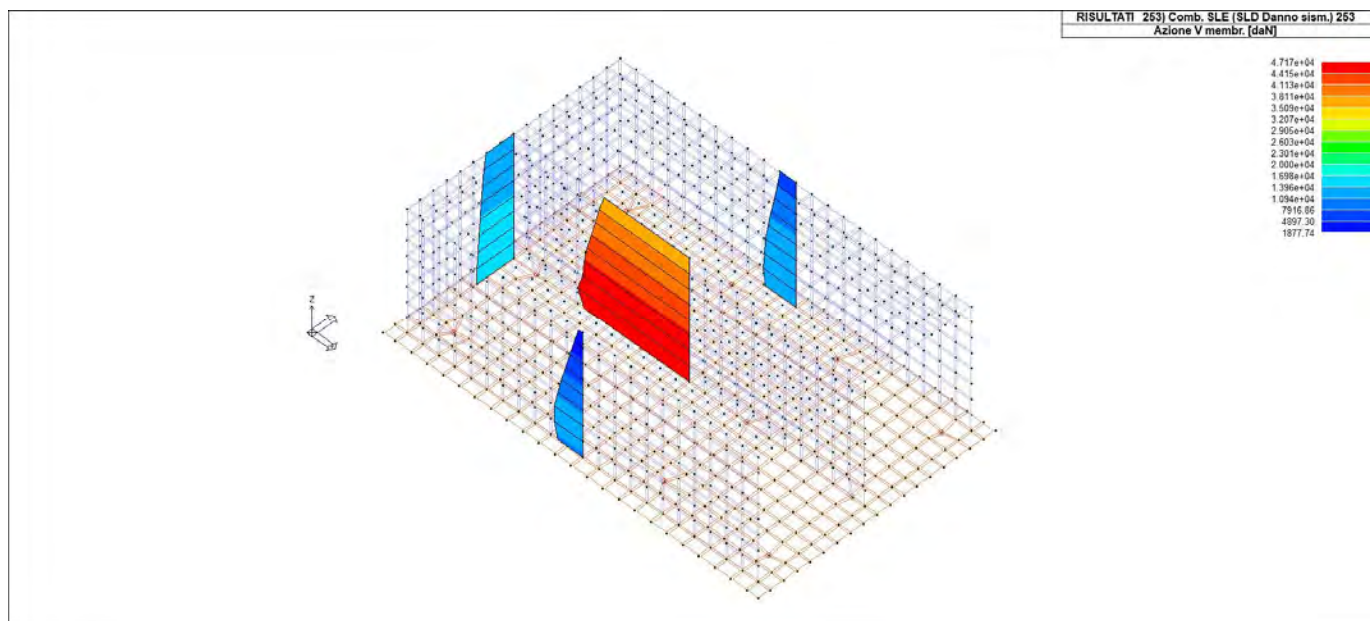


Figura 107 - RIS_V_253_Comb SLE SLD Danno sism 253

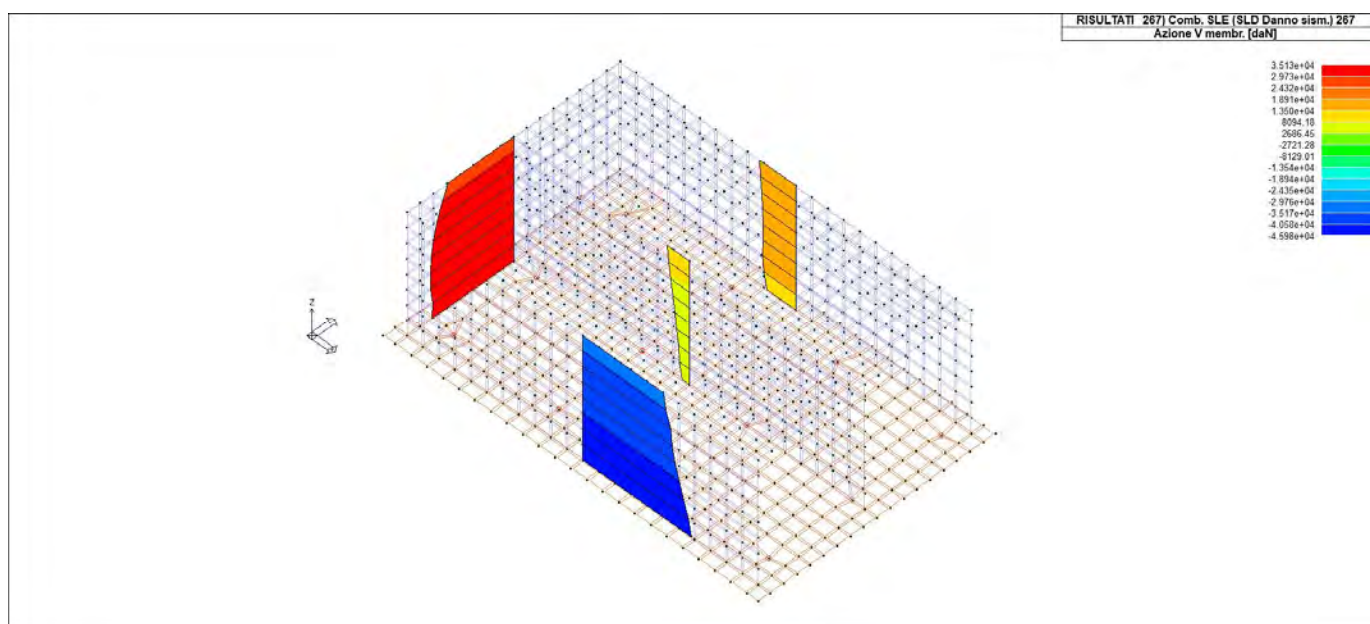


Figura 108 - RIS_V_267_Comb SLE SLD Danno sism 267

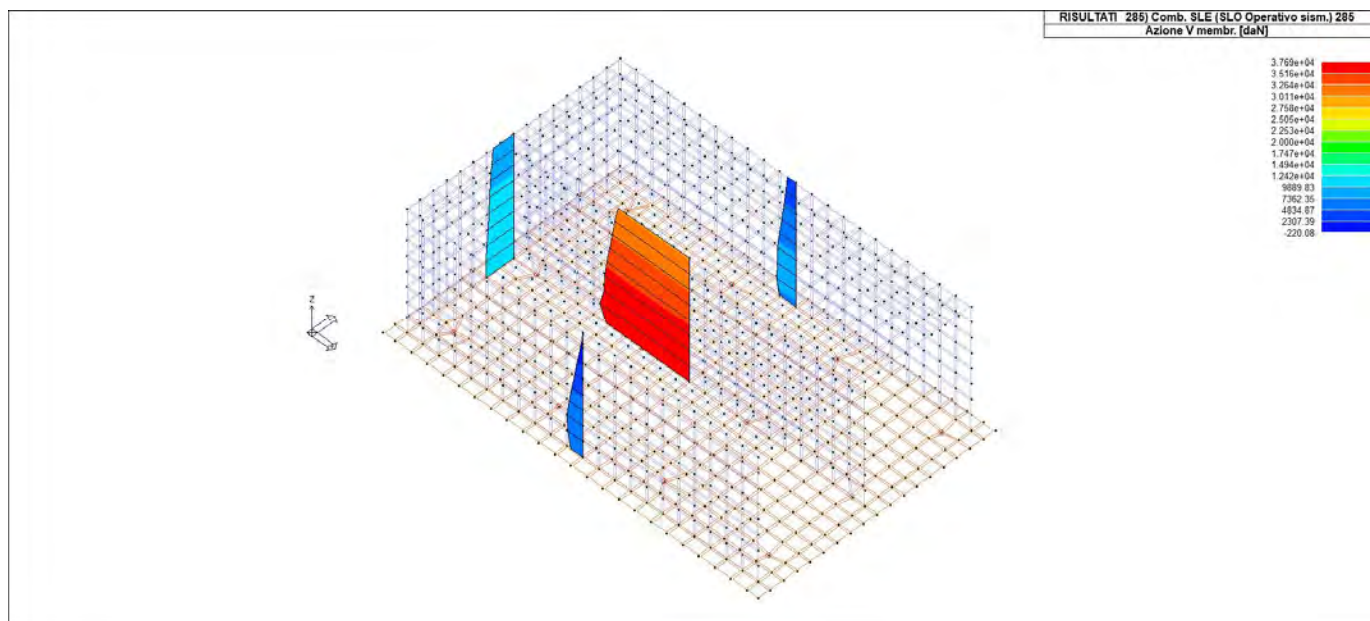


Figura 109 - RIS_V_285_Comb SLE SLO Operativo sism 285

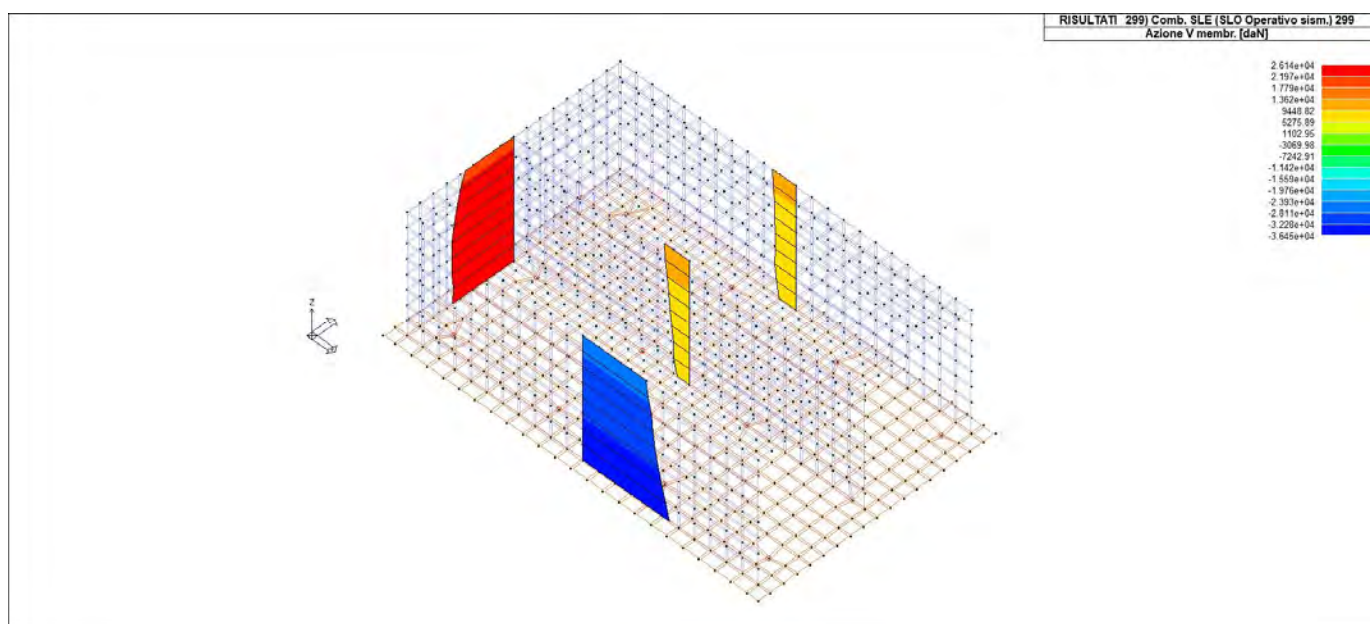


Figura 110 - RIS_V_299_Comb SLE SLO Operativo sism 299

Macro	Tipo	Angolo 1-X (gradi)
3	Guscio	0.0

M_G	Cmb	Nodo	N max daN/cm	N min daN/cm	N 1 daN/cm	N 2 daN/cm	N 1-2 daN/cm	M max daN	M min daN	M 1 daN	M 2 daN	M 1-2 daN
3	26	3	26.35	-0.45	26.35	-0.45	4.90e-02	3208.45	651.98	652.00	3208.43	-7.39
3	26	6	25.73	-6.30	25.73	-6.30	-0.11	3547.32	730.55	730.55	3547.31	-2.58
3	26	7	-2.11	-14.03	-5.06	-11.09	5.14	191.55	-26.15	132.61	32.80	96.73

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

EdilAlta

Anaergia
Fueling a Sustainable World

OWAC
ENGINEERING COMPANY

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 182 di 378

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
3	26	8	139.91	10.79	10.82	139.88	-1.90	360.86	-113.45	-113.41	360.83	-4.00
3	26	9	24.98	4.32	24.98	4.32	8.55e-02	2952.42	593.33	593.36	2952.39	-8.59
3	26	10	20.01	0.37	6.49	13.90	-9.09	567.72	46.27	62.21	551.78	89.77
3	26	11	0.25	-13.44	0.25	-13.44	-6.81e-02	3695.26	147.32	147.32	3695.26	-4.17
3	26	12	23.72	-6.19	23.72	-6.19	-0.14	3569.20	732.85	732.85	3569.20	-1.77
3	26	28	-5.12	-15.06	-14.98	-5.20	0.89	492.37	-155.03	41.24	296.11	297.56
3	26	37	-3.53	-17.65	-17.36	-3.81	-1.99	675.39	-47.09	70.73	557.57	266.91
3	26	46	-0.81	-16.27	-14.69	-2.39	-4.69	759.85	37.41	103.70	693.56	208.55
3	26	55	2.79	-14.15	-10.14	-1.23	-7.20	772.20	88.32	123.15	737.38	150.34
3	26	64	6.70	-12.69	-5.61	-0.38	-9.34	746.64	114.09	131.10	729.62	102.34
3	26	73	10.24	-11.87	-1.82	0.19	-11.01	707.11	124.68	132.31	699.48	66.20
3	26	82	13.04	-11.48	1.03	0.53	-12.26	667.44	127.36	130.39	664.41	40.32
3	26	91	14.97	-11.41	2.86	0.70	-13.15	634.30	126.37	127.36	633.31	22.38
3	26	100	15.99	-11.53	3.72	0.74	-13.68	609.66	123.90	124.12	609.44	10.40
3	26	109	16.21	-11.61	3.89	0.70	-13.82	592.57	121.11	121.13	592.55	2.90
3	26	118	15.90	-11.47	3.79	0.64	-13.59	580.78	118.69	118.70	580.78	-1.40
3	26	127	15.40	-11.08	3.72	0.60	-13.15	572.14	116.89	116.92	572.11	-3.67
3	26	136	14.90	-10.56	3.76	0.58	-12.63	565.36	115.54	115.59	565.31	-4.90
3	26	145	14.37	-10.07	3.74	0.56	-12.12	559.95	114.25	114.32	559.88	-5.64
3	26	154	13.68	-9.65	3.52	0.51	-11.57	555.42	112.66	112.74	555.34	-5.89
3	26	163	12.77	-9.17	3.17	0.43	-10.88	550.63	110.69	110.76	550.57	-5.33
3	26	172	11.74	-8.45	2.94	0.35	-10.01	543.83	108.44	108.47	543.80	-3.50
3	26	181	10.74	-7.41	3.03	0.29	-8.97	533.35	106.07	106.07	533.35	0.35
3	26	190	9.80	-6.09	3.47	0.24	-7.78	519.36	104.02	104.18	519.21	8.03
3	26	199	8.73	-4.65	4.09	-2.35e-02	-6.36	509.66	105.09	106.69	508.07	25.36
3	26	208	5.97	-5.61	4.30	-3.93	-4.07	547.82	134.23	148.78	533.27	76.19
3	26	235	44.87	19.70	19.72	44.85	-0.81	1097.22	229.56	229.65	1097.13	-8.73
3	26	244	24.67	21.05	21.05	24.67	-0.16	1923.40	371.29	371.35	1923.35	-9.40
3	26	253	23.13	12.01	23.13	12.01	5.56e-02	2541.41	501.78	501.82	2541.37	-9.37
3	26	278	27.23	-3.40	27.23	-3.40	-1.92e-03	3363.25	688.51	688.52	3363.24	-6.05
3	26	287	27.55	-5.14	27.55	-5.14	-4.79e-02	3456.38	711.03	711.03	3456.37	-4.75
3	26	296	27.09	-6.02	27.09	-6.02	-8.50e-02	3512.79	724.12	724.13	3512.78	-3.58
3	26	321	21.52	-5.92	21.52	-5.92	-0.16	3584.49	733.57	733.57	3584.49	-1.13
3	26	330	19.50	-5.64	19.50	-5.63	-0.18	3596.64	734.42	734.42	3596.64	-0.65
3	26	339	17.71	-5.41	17.71	-5.41	-0.19	3606.73	735.57	735.57	3606.73	-0.31
3	26	348	15.91	-5.24	15.91	-5.24	-0.20	3614.19	736.05	736.05	3614.19	-9.30e-02
3	26	357	13.90	-5.14	13.89	-5.13	-0.21	3618.17	734.91	734.91	3618.17	1.88e-02
3	26	366	11.75	-5.18	11.74	-5.18	-0.21	3618.78	732.40	732.40	3618.78	4.05e-02
3	26	383	8.22	-6.34	8.22	-6.33	-0.19	3618.55	729.20	729.20	3618.55	-0.20
3	26	392	6.99	-7.73	6.98	-7.73	-0.16	3631.23	733.05	733.05	3631.23	-0.52
3	26	401	5.34	-9.72	5.34	-9.72	-0.12	3679.66	746.41	746.41	3679.66	-1.05
3	26	410	0.62	-11.99	0.62	-11.99	-3.32e-02	3789.78	750.77	750.77	3789.78	-1.97
3	26	418	9.77	-5.52	9.77	-5.52	-0.20	3617.62	729.86	729.86	3617.62	-2.58e-02
3	26	420	0.14	-18.23	-11.01	-7.08	8.97	648.67	-15.09	555.22	78.36	230.86
3	26	421	-0.28	-12.85	-11.91	-1.22	3.31	514.88	-652.85	-23.02	-114.95	582.05
3	26	422	6.69	-17.45	-10.31	-0.45	11.01	963.72	92.09	928.64	127.18	171.31
3	26	423	4.86	-10.65	-10.20	4.41	2.61	249.98	-581.10	-33.90	-297.22	394.13
3	26	424	14.00	-15.37	-9.64	8.28	11.63	1095.13	152.90	1090.46	157.57	66.14
3	26	425	11.68	-8.27	-8.23	11.64	0.87	9.46	-408.48	-37.40	-361.63	131.86
3	26	426	23.32	-12.62	-8.67	19.37	11.25	1058.48	153.01	1055.26	156.22	-53.87
3	26	427	20.55	-5.97	-5.80	20.38	-2.12	14.79	-418.58	-49.73	-354.05	-154.27
3	26	428	36.05	-9.38	-7.08	33.75	9.97	871.92	90.39	836.63	125.68	-162.29
3	26	429	31.89	-3.63	-2.27	30.53	-6.81	245.88	-584.55	-64.09	-274.57	-401.65
3	26	430	54.82	-5.20	-4.26	53.88	7.45	576.11	-27.94	468.94	79.23	-230.76
3	26	431	45.99	-0.92	3.60	41.46	-13.85	469.14	-604.62	-47.48	-88.01	-536.50
3	26	432	85.72	1.51	1.55	85.68	1.87	275.63	-151.66	51.86	72.11	-213.41
3	26	433	60.73	2.98	14.29	49.42	-22.92	651.90	-294.14	49.76	308.00	-455.05
3	26	434	0.40	-11.97	-11.34	-0.24	-2.73	294.93	-731.99	-177.11	-259.94	511.79
3	26	435	6.18	-9.39	-7.97	4.76	-4.48	-138.49	-892.86	-358.43	-672.93	342.85
3	26	436	13.12	-7.69	-4.75	10.17	-7.25	-422.47	-868.85	-449.50	-841.82	106.47
3	26	437	21.14	-6.29	-0.83	15.68	-10.95	-399.96	-874.73	-455.02	-819.67	-152.02
3	26	438	30.04	-4.97	4.40	20.67	-15.50	-107.53	-875.05	-374.05	-608.53	-365.41
3	26	439	38.91	-3.55	11.36	24.00	-20.27	281.31	-645.62	-202.87	-161.44	-463.00
3	26	440	45.40	-2.00	18.40	25.01	-23.47	809.25	-131.39	54.30	623.56	-374.41
3	26	441	4.38	-13.26	-9.23	0.34	-7.41	108.22	-668.56	-202.65	-357.68	380.58
3	26	442	10.07	-11.35	-5.04	3.75	-9.77	-336.67	-1045.83	-438.58	-943.91	248.77
3	26	443	16.25	-10.04	-0.98	7.19	-12.49	-552.25	-1201.44	-559.23	-1194.47	66.94
3	26	444	22.82	-9.02	3.64	10.16	-15.58	-532.25	-1183.16	-559.86	-1155.55	-131.18
3	26	445	29.46	-8.16	9.10	12.20	-18.75	-286.58	-983.28	-441.02	-828.85	-289.39
3	26	446	35.50	-7.40	15.09	13.01	-21.42	161.74	-543.84	-209.98	-172.13	-352.28

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
3	26	447	40.00	-6.92	20.32	12.75	-23.15	986.43	30.32	115.82	900.93	-272.83
3	26	448	8.36	-13.72	-6.12	0.76	-10.49	-29.39	-597.71	-191.71	-435.40	256.71
3	26	449	13.59	-12.89	-2.07	2.77	-13.02	-395.18	-1164.25	-429.05	-1130.38	157.80
3	26	450	18.79	-12.03	2.17	4.59	-15.36	-547.12	-1435.17	-548.10	-1434.19	29.51
3	26	451	24.00	-11.25	6.84	5.90	-17.62	-528.15	-1391.61	-541.70	-1378.07	-107.29
3	26	452	29.03	-10.61	11.94	6.48	-19.63	-337.87	-1034.16	-410.09	-961.95	-212.29
3	26	453	33.55	-10.15	17.12	6.28	-21.17	89.31	-404.50	-162.67	-152.52	-246.85
3	26	454	37.25	-10.06	21.68	5.52	-22.23	1149.99	146.77	181.36	1115.40	-183.03
3	26	455	11.60	-13.45	-2.86	1.00	-12.38	-108.15	-567.32	-174.23	-501.24	161.17
3	26	456	16.06	-13.38	0.62	2.06	-14.70	-386.43	-1265.49	-395.48	-1256.44	88.72
3	26	457	20.31	-12.93	4.59	2.79	-16.60	-502.03	-1588.77	-502.03	-1588.76	2.47
3	26	458	24.44	-12.39	8.97	3.09	-18.18	-481.00	-1522.72	-488.10	-1515.61	-85.74
3	26	459	28.39	-11.89	13.62	2.88	-19.42	-322.53	-1066.34	-354.01	-1034.86	-149.74
3	26	460	32.05	-11.59	18.28	2.18	-20.28	50.20	-280.46	-108.15	-122.11	-165.19
3	26	461	35.37	-11.66	22.61	1.09	-20.91	1280.32	220.34	233.53	1267.14	-117.47
3	26	462	14.05	-12.91	2.57e-02	1.11	-13.47	-138.19	-577.56	-159.53	-556.22	94.45
3	26	463	17.60	-13.16	2.87	1.56	-15.37	-360.65	-1342.90	-362.50	-1341.05	42.60
3	26	464	21.00	-12.98	6.38	1.64	-16.82	-455.52	-1685.18	-455.67	-1685.03	-13.66
3	26	465	24.30	-12.61	10.33	1.36	-17.90	-431.51	-1599.93	-435.46	-1595.98	-67.83
3	26	466	27.50	-12.23	14.56	0.71	-18.62	-288.68	-1084.33	-302.54	-1070.46	-104.11
3	26	467	30.59	-12.01	18.87	-0.29	-19.03	31.90	-186.81	-63.40	-91.51	-108.45
3	26	468	33.65	-12.13	23.12	-1.60	-19.27	1374.14	265.52	270.51	1369.15	-74.21
3	26	469	15.73	-12.34	2.28	1.12	-14.03	-143.79	-605.78	-149.39	-600.19	50.53
3	26	470	18.42	-12.62	4.61	1.19	-15.43	-337.07	-1397.68	-337.27	-1397.49	14.41
3	26	471	21.09	-12.54	7.65	0.90	-16.47	-419.38	-1743.92	-419.73	-1743.57	-21.50
3	26	472	23.73	-12.26	11.17	0.30	-17.15	-392.77	-1642.98	-395.07	-1640.68	-53.52
3	26	473	26.36	-11.95	14.99	-0.58	-17.50	-257.78	-1091.37	-264.16	-1084.99	-72.61
3	26	474	29.02	-11.75	19.00	-1.73	-17.55	24.84	-121.56	-31.61	-65.12	-71.26
3	26	475	31.84	-11.83	23.17	-3.16	-17.42	1438.09	293.10	295.03	1436.15	-47.03
3	26	476	16.72	-11.86	3.83	1.02	-14.22	-142.12	-634.62	-143.17	-633.57	22.77
3	26	477	18.68	-12.00	5.82	0.86	-15.14	-320.14	-1434.80	-320.14	-1434.80	-1.58
3	26	478	20.74	-11.90	8.47	0.37	-15.81	-394.74	-1778.96	-395.16	-1778.54	-24.07
3	26	479	22.85	-11.64	11.59	-0.38	-16.17	-366.30	-1665.70	-367.68	-1664.32	-42.34
3	26	480	25.02	-11.34	15.04	-1.36	-16.23	-235.54	-1091.68	-238.64	-1088.58	-51.40
3	26	481	27.30	-11.12	18.74	-2.56	-15.99	22.74	-77.76	-11.15	-43.87	-47.52
3	26	482	29.80	-11.11	22.70	-4.01	-15.49	1480.82	309.33	310.11	1480.04	-30.24
3	26	483	17.08	-11.51	4.76	0.81	-14.16	-139.73	-657.69	-139.80	-657.62	5.87
3	26	484	18.51	-11.44	6.56	0.52	-14.67	-309.32	-1459.23	-309.40	-1459.14	-9.94
3	26	485	20.10	-11.24	8.91	-5.36e-02	-15.01	-379.26	-1799.46	-379.66	-1799.07	-23.74
3	26	486	21.77	-10.94	11.68	-0.85	-15.10	-349.74	-1676.85	-350.60	-1675.99	-33.76
3	26	487	23.53	-10.61	14.77	-1.85	-14.91	-221.48	-1088.59	-223.09	-1086.99	-37.26
3	26	488	25.42	-10.34	18.12	-3.04	-14.42	22.21	-48.63	0.82	-27.24	-32.52
3	26	489	27.53	-10.23	21.74	-4.44	-13.61	1509.52	317.97	318.30	1509.19	-19.91
3	26	490	16.98	-11.24	5.19	0.55	-13.92	-138.22	-674.29	-138.25	-674.26	-3.88
3	26	491	18.05	-10.96	6.91	0.18	-14.11	-302.93	-1474.93	-303.10	-1474.77	-13.81
3	26	492	19.25	-10.63	9.03	-0.42	-14.17	-370.15	-1811.19	-370.49	-1810.85	-22.09
3	26	493	20.54	-10.26	11.49	-1.21	-14.03	-340.11	-1681.64	-340.66	-1681.08	-27.26
3	26	494	21.93	-9.87	14.23	-2.17	-13.62	-213.42	-1084.15	-214.31	-1083.26	-27.85
3	26	495	23.45	-9.54	17.21	-3.31	-12.92	21.94	-29.07	7.17	-14.30	-23.14
3	26	496	25.14	-9.33	20.39	-4.59	-11.88	1529.30	321.91	322.06	1529.15	-13.69
3	26	497	16.58	-10.97	5.29	0.32	-13.55	-137.58	-685.74	-137.73	-685.59	-9.08
3	26	498	17.38	-10.54	6.94	-0.11	-13.51	-299.45	-1484.87	-299.64	-1484.67	-15.18
3	26	499	18.26	-10.10	8.86	-0.70	-13.35	-365.12	-1817.67	-365.40	-1817.39	-20.02
3	26	500	19.21	-9.63	11.04	-1.46	-12.99	-334.84	-1683.03	-335.22	-1682.66	-22.40
3	26	501	20.25	-9.16	13.46	-2.37	-12.40	-209.12	-1079.45	-209.66	-1078.91	-21.55
3	26	502	21.43	-8.77	16.08	-3.42	-11.53	21.80	-15.64	10.34	-4.18	-17.25
3	26	503	22.74	-8.49	18.82	-4.57	-10.35	1543.52	323.62	323.70	1543.43	-10.02
3	26	504	16.01	-10.63	5.20	0.18	-13.08	-137.49	-693.65	-137.73	-693.41	-11.60
3	26	505	16.58	-10.14	6.73	-0.29	-12.89	-297.74	-1491.07	-297.94	-1490.87	-15.28
3	26	506	17.17	-9.61	8.45	-0.88	-12.55	-362.56	-1820.99	-362.78	-1820.77	-17.96
3	26	507	17.81	-9.05	10.37	-1.61	-12.02	-332.18	-1682.62	-332.44	-1682.36	-18.69
3	26	508	18.54	-8.50	12.50	-2.46	-11.26	-206.97	-1074.94	-207.30	-1074.60	-17.15
3	26	509	19.40	-8.03	14.79	-3.42	-10.26	21.88	-6.05	12.00	3.83	-13.35
3	26	510	20.44	-7.71	17.18	-4.45	-9.01	1554.22	324.71	324.76	1554.17	-7.71
3	26	511	15.32	-10.21	4.99	0.12	-12.53	-137.75	-699.25	-138.04	-698.96	-12.74
3	26	512	15.67	-9.72	6.34	-0.40	-12.24	-297.10	-1494.85	-297.28	-1494.66	-14.85
3	26	513	15.99	-9.14	7.85	-1.00	-11.76	-361.46	-1822.31	-361.64	-1822.14	-16.12
3	26	514	16.35	-8.52	9.52	-1.69	-11.10	-331.03	-1681.15	-331.21	-1680.96	-15.78
3	26	515	16.79	-7.90	11.37	-2.48	-10.22	-206.03	-1070.68	-206.25	-1070.46	-13.80
3	26	516	17.39	-7.36	13.38	-3.35	-9.12	22.03	1.14	12.85	10.32	-10.37

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
3	26	517	18.23	-6.99	15.52	-4.28	-7.81	1562.48	325.60	325.63	1562.46	-5.85
3	26	518	14.53	-9.76	4.69	7.53e-02	-11.93	-138.29	-703.25	-138.60	-702.94	-13.23
3	26	519	14.65	-9.30	5.83	-0.48	-11.55	-297.05	-1496.98	-297.22	-1496.81	-14.28
3	26	520	14.74	-8.72	7.11	-1.09	-10.99	-361.13	-1822.24	-361.28	-1822.10	-14.55
3	26	521	14.84	-8.06	8.54	-1.76	-10.23	-330.69	-1678.86	-330.83	-1678.73	-13.43
3	26	522	15.03	-7.39	10.13	-2.50	-9.26	-205.85	-1066.47	-206.00	-1066.33	-11.04
3	26	523	15.39	-6.80	11.89	-3.30	-8.08	22.27	6.54	12.99	15.82	-7.73
3	26	524	16.04	-6.38	13.81	-4.15	-6.71	1568.80	325.83	325.84	1568.79	-3.99
3	26	525	13.63	-9.34	4.32	-2.51e-02	-11.28	-139.03	-706.23	-139.34	-705.92	-13.24
3	26	526	13.56	-8.92	5.24	-0.60	-10.85	-297.11	-1497.94	-297.27	-1497.78	-13.69
3	26	527	13.43	-8.36	6.28	-1.21	-10.23	-360.89	-1821.05	-361.01	-1820.93	-13.28
3	26	528	13.29	-7.69	7.46	-1.86	-9.40	-330.46	-1675.79	-330.56	-1675.69	-11.55
3	26	529	13.22	-6.99	8.80	-2.57	-8.36	-205.92	-1062.05	-206.01	-1061.96	-8.78
3	26	530	13.36	-6.37	10.33	-3.33	-7.12	23.47	9.85	12.55	20.77	-5.43
3	26	531	13.83	-5.94	12.02	-4.13	-5.70	1573.46	324.99	324.99	1573.46	-2.18
3	26	532	12.64	-8.92	3.90	-0.19	-10.58	-139.68	-708.81	-139.96	-708.54	-12.48
3	26	533	12.40	-8.58	4.60	-0.78	-10.14	-296.53	-1498.10	-296.67	-1497.97	-12.88
3	26	534	12.05	-8.07	5.37	-1.39	-9.48	-359.64	-1818.93	-359.74	-1818.82	-12.18
3	26	535	11.66	-7.42	6.29	-2.05	-8.58	-329.12	-1671.94	-329.20	-1671.86	-10.17
3	26	536	11.36	-6.72	7.40	-2.75	-7.48	-205.09	-1057.21	-205.15	-1057.15	-7.24
3	26	537	11.30	-6.10	8.71	-3.50	-6.20	26.67	11.32	12.38	25.62	-3.89
3	26	538	11.62	-5.70	10.20	-4.28	-4.75	1576.97	323.54	323.54	1576.97	-0.88
3	26	539	11.59	-8.45	3.51	-0.37	-9.83	-139.57	-711.70	-139.75	-711.52	-10.17
3	26	540	11.18	-8.27	3.93	-1.02	-9.40	-293.88	-1497.81	-293.98	-1497.71	-11.20
3	26	541	10.58	-7.85	4.41	-1.67	-8.70	-355.39	-1816.16	-355.47	-1816.08	-10.79
3	26	542	9.94	-7.25	5.05	-2.36	-7.75	-324.42	-1667.59	-324.48	-1667.53	-9.24
3	26	543	9.40	-6.57	5.93	-3.10	-6.59	-201.18	-1052.05	-201.24	-1051.99	-6.89
3	26	544	9.18	-6.00	7.05	-3.87	-5.27	31.65	13.48	14.38	30.75	-3.95
3	26	545	9.45	-5.70	8.40	-4.66	-3.83	1580.43	323.02	323.02	1580.43	-0.88
3	26	546	10.49	-7.84	3.20	-0.55	-8.97	-137.16	-715.24	-137.19	-715.21	-4.50
3	26	547	9.82	-7.91	3.24	-1.32	-8.57	-286.16	-1497.47	-286.20	-1497.43	-7.04
3	26	548	8.95	-7.66	3.38	-2.10	-7.84	-344.39	-1813.47	-344.44	-1813.42	-8.25
3	26	549	8.04	-7.18	3.75	-2.89	-6.85	-312.56	-1663.62	-312.62	-1663.56	-8.73
3	26	550	7.30	-6.61	4.40	-3.70	-5.65	-190.70	-1047.35	-190.79	-1047.27	-8.49
3	26	551	6.97	-6.13	5.37	-4.53	-4.29	39.11	18.67	21.57	36.20	-7.13
3	26	552	7.34	-6.02	6.69	-5.37	-2.87	1585.90	325.79	325.80	1585.89	-3.80
3	26	553	9.23	-7.03	2.97	-0.77	-7.91	-128.31	-719.21	-128.45	-719.08	9.07
3	26	554	8.21	-7.44	2.54	-1.77	-7.52	-266.69	-1498.41	-266.70	-1498.41	2.84
3	26	555	7.01	-7.46	2.33	-2.78	-6.77	-319.36	-1812.92	-319.37	-1812.91	-3.55
3	26	556	5.89	-7.25	2.43	-3.79	-5.78	-287.43	-1662.00	-287.49	-1661.94	-9.49
3	26	557	5.04	-6.93	2.86	-4.75	-4.61	-169.39	-1044.92	-169.61	-1044.70	-13.83
3	26	558	4.70	-6.68	3.67	-5.65	-3.27	54.87	22.94	37.02	40.80	-15.85
3	26	559	5.25	-6.81	4.97	-6.53	-1.80	1596.22	334.55	334.69	1596.08	-13.01
3	26	560	7.61	-5.99	2.74	-1.11	-6.52	-100.35	-725.34	-103.25	-722.44	42.48
3	26	561	6.15	-6.83	1.82	-2.50	-6.12	-220.37	-1506.41	-220.83	-1505.95	24.34
3	26	562	4.59	-7.24	1.28	-3.92	-5.31	-265.61	-1820.41	-265.61	-1820.40	3.35
3	26	563	3.42	-7.55	1.20	-5.33	-4.41	-237.88	-1667.25	-238.08	-1667.06	-16.54
3	26	564	2.69	-7.80	1.44	-6.55	-3.40	-133.51	-1047.15	-134.50	-1046.16	-30.05
3	26	565	2.51	-8.04	2.02	-7.55	-2.21	84.70	14.55	56.58	42.67	-34.38
3	26	566	3.07	-8.39	3.02	-8.34	-0.73	1610.80	346.33	347.18	1609.95	-32.73
3	26	567	6.78	-5.15	2.84	-1.21	-5.61	-19.34	-760.71	-41.79	-738.26	127.04
3	26	568	3.08	-5.80	0.69	-3.40	-3.94	-118.16	-1538.70	-122.00	-1534.86	73.70
3	26	569	1.62	-7.16	0.32	-5.87	-3.11	-150.07	-1853.61	-150.17	-1853.51	13.14
3	26	570	1.00	-8.62	0.27	-7.90	-2.54	-133.31	-1696.03	-134.81	-1694.54	-48.37
3	26	571	0.72	-9.84	0.35	-9.47	-1.94	-64.65	-1066.84	-73.43	-1058.05	-93.40
3	26	572	0.72	-10.67	0.61	-10.56	-1.11	153.96	-51.34	50.24	52.39	-102.65
3	26	573	1.32	-11.38	1.32	-11.38	7.66e-02	1622.49	285.41	288.00	1619.90	-58.79
3	26	574	-1.04	-1.47	-1.04	-1.46	-3.58e-02	88.48	-811.29	56.70	-779.51	166.09
3	26	575	-0.18	-6.19	-0.18	-6.19	-3.11e-02	61.09	-1591.34	55.31	-1585.57	97.49
3	26	576	-7.44e-02	-9.29	-7.46e-02	-9.29	-3.95e-02	56.32	-1911.88	56.20	-1911.75	15.94
3	26	577	-5.76e-02	-11.84	-5.78e-02	-11.84	-5.40e-02	58.20	-1749.37	55.72	-1746.89	-66.95
3	26	578	-7.09e-02	-13.95	-7.12e-02	-13.95	-6.16e-02	70.12	-1105.13	53.98	-1088.99	-136.77
3	26	579	-0.12	-15.45	-0.12	-15.45	-3.71e-02	231.49	-116.62	51.36	63.51	-173.95
3	26	580	-0.22	-15.59	-0.22	-15.59	0.26	1731.85	33.20	44.38	1720.68	-137.33
3	26	638	5.88	-10.89	-4.15	-0.86	8.22	784.31	126.15	139.79	770.67	-93.75
3	26	640	16.44	-10.06	6.25	0.13	12.89	666.53	137.53	137.63	666.42	-7.46
3	26	641	-1.90	-13.41	-4.58	-10.73	-4.86	187.50	-20.38	124.33	42.78	-95.61
3	26	642	2.12	-12.00	-8.28	-1.60	6.21	801.03	101.40	130.81	771.62	-140.40
3	26	643	19.60	0.15	6.31	13.44	9.05	604.93	49.31	62.87	591.37	-85.74
3	26	644	16.95	-10.35	6.52	8.57e-02	13.27	650.30	134.77	134.77	650.29	-0.91

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
3	26	664	-4.69	-11.85	-11.30	-5.24	-1.91	499.61	-135.18	49.71	314.71	-288.42
3	26	673	-3.79	-13.77	-13.68	-3.89	0.97	687.75	-28.92	78.94	579.89	-256.25
3	26	682	-1.30	-13.28	-11.97	-2.62	3.75	779.73	52.71	111.23	721.20	-197.79
3	26	707	9.48	-10.13	-0.29	-0.36	9.81	752.35	136.77	142.52	746.60	-59.19
3	26	716	12.62	-9.76	2.91	-5.67e-02	11.09	718.38	140.02	142.13	716.27	-34.86
3	26	725	15.01	-9.78	5.12	9.56e-02	12.14	689.03	139.65	140.26	688.42	-18.28
3	26	750	16.85	-10.41	6.40	3.05e-02	13.25	638.40	132.17	132.18	638.39	2.61
3	26	759	16.50	-10.22	6.28	1.43e-03	12.99	628.97	130.09	130.13	628.94	4.31
3	26	768	16.13	-9.91	6.22	-1.12e-03	12.65	621.01	128.43	128.49	620.96	5.19
3	26	777	15.69	-9.67	6.03	-7.40e-03	12.31	614.27	126.76	126.82	614.20	5.79
3	26	786	15.00	-9.51	5.53	-4.60e-02	11.93	608.45	124.67	124.74	608.37	6.05
3	26	795	13.99	-9.30	4.80	-0.12	11.38	602.49	122.10	122.17	602.43	5.55
3	26	812	11.58	-7.99	3.84	-0.24	9.57	582.83	116.20	116.20	582.83	4.66e-02
3	26	821	10.41	-6.81	3.89	-0.28	8.35	567.45	113.45	113.57	567.33	-7.36
3	26	830	9.04	-5.42	4.16	-0.54	6.84	556.25	113.94	115.26	554.94	-24.08
3	26	839	5.82	-6.33	4.04	-4.54	4.30	591.01	143.23	155.65	578.59	-73.53
3	26	847	12.79	-8.82	4.16	-0.19	10.58	594.55	119.23	119.26	594.52	3.77
3	26	849	83.24	1.34	1.74	82.84	-5.66	260.59	-156.35	38.17	66.07	208.01
3	26	850	58.40	3.52	13.96	47.96	21.54	638.26	-279.77	48.33	310.16	439.95
3	26	851	50.28	-6.14	-4.16	48.29	-10.39	554.57	-36.56	449.00	69.01	226.41
3	26	852	42.99	-1.21	2.87	38.91	12.80	454.31	-598.85	-53.30	-91.23	526.24
3	26	853	30.01	-10.71	-7.07	26.36	-11.62	848.83	78.65	814.25	113.23	159.49
3	26	854	28.46	-4.46	-3.28	27.29	6.10	232.84	-585.24	-72.40	-280.01	395.65
3	26	855	16.65	-13.83	-8.69	11.50	-11.42	1034.91	140.25	1031.76	143.40	53.05
3	26	856	17.10	-6.97	-6.84	16.98	1.74	4.80	-423.45	-58.88	-359.78	152.36
3	26	857	7.66	-15.95	-9.61	1.33	-10.46	1070.97	141.70	1066.39	146.28	-65.07
3	26	858	8.73	-9.03	-8.98	8.67	-1.00	0.11	-412.00	-45.91	-365.97	-129.80
3	26	859	1.57	-17.03	-10.13	-5.34	-8.99	939.57	84.15	904.75	118.98	-169.06
3	26	860	2.88	-10.82	-10.30	2.36	-2.64	240.03	-578.25	-39.70	-298.52	-388.13
3	26	861	-3.05	-16.88	-10.51	-9.42	-6.89	629.01	-19.96	534.78	74.28	-228.63
3	26	862	-0.81	-12.17	-10.94	-2.04	-3.53	505.63	-638.74	-22.43	-110.68	-570.48
3	26	863	44.56	-2.22	17.91	24.43	23.16	804.21	-116.26	55.64	632.31	358.72
3	26	864	37.62	-4.18	10.48	22.97	19.94	272.84	-631.77	-202.33	-156.61	451.73
3	26	865	28.45	-5.78	3.29	19.38	15.11	-112.88	-867.10	-374.15	-605.83	358.88
3	26	866	19.45	-6.99	-1.91	14.38	10.41	-400.91	-871.43	-455.13	-817.22	150.23
3	26	867	11.59	-7.95	-5.45	9.08	6.53	-422.94	-863.56	-448.70	-837.80	-103.38
3	26	868	5.04	-8.86	-7.89	4.07	3.54	-141.97	-879.05	-355.66	-665.36	-334.43
3	26	869	-0.21	-10.18	-9.93	-0.46	1.56	289.08	-706.87	-171.58	-246.20	-496.58
3	26	870	39.71	-7.31	19.91	12.50	23.22	992.12	43.65	119.80	915.96	257.74
3	26	871	34.86	-7.87	14.36	12.63	21.35	159.42	-525.03	-205.61	-160.00	341.47
3	26	872	28.52	-8.51	8.24	11.77	18.43	-285.77	-968.85	-436.29	-818.33	283.12
3	26	873	21.66	-9.03	2.88	9.74	14.96	-527.46	-1172.23	-554.71	-1144.98	129.73
3	26	874	14.99	-9.48	-1.33	6.84	11.53	-547.17	-1188.35	-553.49	-1182.02	-63.35
3	26	875	8.85	-10.03	-4.66	3.49	8.52	-335.09	-1024.79	-432.16	-927.72	-239.85
3	26	876	3.39	-11.05	-7.78	0.12	6.04	106.07	-637.72	-195.67	-335.98	-365.22
3	26	877	37.12	-10.39	21.39	5.34	22.36	1165.89	158.17	187.46	1136.60	169.28
3	26	878	33.15	-10.38	16.65	6.13	21.12	92.58	-382.07	-155.69	-133.80	237.07
3	26	879	28.37	-10.60	11.44	6.33	19.31	-332.59	-1014.17	-402.40	-944.35	206.66
3	26	880	23.11	-10.86	6.49	5.75	16.98	-520.11	-1373.43	-533.50	-1360.04	106.07
3	26	881	17.75	-11.13	2.21	4.41	14.40	-538.84	-1414.85	-539.62	-1414.07	-26.12
3	26	882	12.50	-11.42	-1.44	2.52	11.79	-389.36	-1137.75	-420.58	-1106.53	-149.62
3	26	883	7.36	-11.75	-4.79	0.40	9.20	-27.98	-562.12	-183.67	-406.42	-242.74
3	26	884	35.24	-11.90	22.45	0.89	20.96	1304.24	230.66	241.13	1293.77	105.50
3	26	885	31.77	-11.66	18.06	2.04	20.19	58.11	-255.16	-99.41	-97.63	156.63
3	26	886	27.94	-11.71	13.45	2.77	19.09	-314.35	-1041.20	-344.44	-1011.11	144.79
3	26	887	23.82	-11.86	8.99	2.96	17.59	-470.98	-1498.14	-478.00	-1491.12	84.62
3	26	888	19.55	-12.00	4.97	2.58	15.73	-491.76	-1562.02	-491.76	-1562.02	0.39
3	26	889	15.22	-12.03	1.46	1.72	13.62	-377.54	-1233.86	-385.42	-1225.98	-81.79
3	26	890	10.74	-11.78	-1.57	0.54	11.21	-103.42	-527.18	-164.91	-465.70	-149.25
3	26	891	33.52	-12.29	23.07	-1.83	19.23	1403.83	275.40	279.06	1400.17	64.18
3	26	892	30.40	-12.01	18.86	-0.46	18.88	43.38	-159.17	-53.56	-62.24	101.18
3	26	893	27.21	-12.00	14.66	0.56	18.29	-278.70	-1054.61	-291.77	-1041.54	99.85
3	26	894	23.92	-12.09	10.66	1.18	17.37	-420.21	-1569.95	-424.10	-1566.06	66.77
3	26	895	20.54	-12.13	7.02	1.38	16.09	-443.87	-1652.95	-444.08	-1652.74	15.92
3	26	896	17.06	-11.98	3.90	1.18	14.46	-349.64	-1306.45	-351.07	-1305.02	-36.97
3	26	897	13.43	-11.43	1.40	0.60	12.43	-130.12	-533.69	-148.76	-515.04	-84.71
3	26	898	31.71	-11.95	23.19	-3.43	17.30	1471.75	302.82	304.12	1470.45	38.96
3	26	899	28.90	-11.71	19.14	-1.95	17.35	38.93	-92.11	-21.17	-32.02	65.30
3	26	900	26.22	-11.71	15.29	-0.78	17.18	-246.77	-1057.80	-252.69	-1051.88	69.06
3	26	901	23.56	-11.78	11.70	7.49e-02	16.68	-380.66	-1608.60	-382.92	-1606.34	52.58

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
3	26	902	20.88	-11.78	8.49	0.61	15.85	-406.81	-1707.18	-407.22	-1706.77	23.25
3	26	903	18.18	-11.57	5.81	0.80	14.66	-324.65	-1357.04	-324.75	-1356.95	-9.94
3	26	904	15.43	-10.98	3.84	0.62	13.11	-132.95	-558.84	-137.30	-554.49	-42.84
3	26	905	29.67	-11.20	22.78	-4.31	15.31	1517.15	318.94	319.42	1516.67	24.00
3	26	906	27.23	-11.07	18.98	-2.81	15.74	38.84	-47.14	-0.47	-7.84	42.83
3	26	907	24.99	-11.11	15.48	-1.59	15.90	-224.02	-1055.01	-226.87	-1052.16	48.60
3	26	908	22.85	-11.19	12.28	-0.63	15.75	-353.76	-1627.82	-355.12	-1626.46	41.61
3	26	909	20.76	-11.21	9.47	7.53e-02	15.28	-381.63	-1738.64	-382.11	-1738.17	25.47
3	26	910	18.71	-11.04	7.18	0.49	14.49	-306.88	-1390.77	-306.91	-1390.75	5.10
3	26	911	16.74	-10.59	5.61	0.54	13.43	-129.52	-585.12	-130.15	-584.50	-16.84
3	26	912	27.41	-10.30	21.85	-4.74	13.37	1547.59	327.44	327.63	1547.40	15.31
3	26	913	25.39	-10.28	18.42	-3.31	14.14	40.28	-17.82	11.49	10.97	29.04
3	26	914	23.58	-10.39	15.30	-2.11	14.58	-209.83	-1049.50	-211.31	-1048.02	35.21
3	26	915	21.89	-10.52	12.48	-1.12	14.71	-337.12	-1636.27	-337.97	-1635.42	33.31
3	26	916	20.28	-10.60	10.03	-0.35	14.54	-365.99	-1756.41	-366.44	-1755.97	24.93
...												
3	302	1009	5.77	0.93	2.68	4.02	2.33	1761.33	205.83	212.73	1754.44	-103.32
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-77.98	-70.61	-36.77	-23.47		-4260.23	-749.70	-4257.84	-605.03
			139.91		64.53	139.88	54.86	4780.21		1090.46	4780.11	582.05

Macro	Tipo	Angolo 1-X (gradi)
6	Guscio	0.0

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
6	125	1	60.04	-11.16	25.98	22.89	-35.56	3225.48	-365.93	1440.30	1419.24	-1795.68
6	125	2	41.73	-0.49	41.61	-0.37	2.21	-157.17	-3076.10	-3023.39	-209.88	388.69
6	125	4	12.93	-7.28	1.84	3.80	10.06	-1268.56	-1906.99	-1708.02	-1467.53	-295.70
6	125	5	69.38	-26.82	-26.80	69.36	1.42	-2442.37	-3564.85	-2563.12	-3444.11	347.78
6	125	15	99.26	-63.27	67.98	-32.00	-64.07	2439.75	-3035.38	1393.69	-1989.33	-2152.45
6	125	30	99.09	-23.40	95.82	-20.13	19.75	576.35	-1996.51	566.35	-1986.50	160.13
6	125	39	123.44	-22.09	100.56	0.79	52.97	181.56	-875.28	-531.70	-162.02	495.04
6	125	48	93.74	-4.22	80.58	8.94	33.41	572.51	-503.44	-481.13	550.19	-153.33
6	125	57	73.49	2.88	70.89	5.48	13.29	1105.82	-847.68	-428.39	686.53	-802.04
6	125	66	59.19	4.60	59.14	4.65	1.66	1467.23	-1543.54	-435.20	358.88	-1452.08
6	125	75	41.40	1.85	40.72	2.53	-5.14	1444.98	-2078.33	219.89	-853.24	-1677.95
6	125	84	32.53	0.46	32.21	0.78	3.21	839.95	-2034.59	839.22	-2033.86	45.83
6	125	93	55.71	1.67	53.89	3.49	9.74	1463.03	-1950.88	121.95	-609.79	1667.28
6	125	102	79.42	2.88	78.90	3.39	6.27	1476.13	-1260.46	-450.56	666.23	1249.17
6	125	111	89.46	2.32	89.27	2.52	4.08	1177.75	-505.71	-374.95	1046.99	450.59
6	125	120	89.70	2.65	89.64	2.71	2.14	1101.36	-465.74	-380.63	1016.25	-355.15
6	125	129	78.47	4.47	78.46	4.48	-0.77	1295.42	-1127.71	-341.02	508.73	-1134.62
6	125	138	56.56	2.54	56.46	2.63	-2.29	1074.82	-1528.03	484.43	-937.64	-1090.02
6	125	147	50.41	-0.37	49.18	0.86	7.82	1003.39	-1642.02	736.67	-1375.30	796.53
6	125	156	67.35	2.23	65.10	4.49	11.90	1553.44	-1463.49	-78.29	168.24	1503.42
6	125	165	82.15	3.82	81.71	4.27	5.89	1441.55	-725.10	-343.94	1060.39	824.96
6	125	174	89.28	3.45	89.24	3.49	1.85	1395.43	-318.41	-315.66	1392.69	-68.52
6	125	183	91.00	2.80	91.00	2.80	-0.45	1907.42	-978.63	-490.85	1419.65	-1081.59
6	125	192	80.48	2.69	80.25	2.92	-4.19	2311.16	-2232.92	-718.71	796.95	-2141.93
6	125	201	62.82	-6.95	62.50	-6.63	-4.72	638.47	-3006.33	-1104.80	-1263.06	-1820.68
6	125	216	43.06	7.58e-02	43.02	0.11	-1.26	358.43	-192.95	99.02	66.46	-275.21
6	125	217	49.79	-0.20	49.79	-0.20	0.45	411.91	168.87	411.88	168.89	-2.48
6	125	218	53.11	0.17	53.07	0.22	1.49	309.54	-203.60	54.02	51.91	256.57
6	125	219	64.08	0.89	64.08	0.89	0.17	130.04	-465.89	-280.70	-55.15	275.80
6	125	222	59.89	-75.20	-74.50	59.19	9.70	6196.31	4358.61	6105.99	4448.93	397.27
6	125	237	105.09	4.83	104.82	5.10	5.22	591.27	-3684.12	-3652.86	560.01	364.20
6	125	246	93.04	11.96	92.96	12.04	2.50	-800.48	-1627.39	-928.84	-1499.02	299.44
6	125	255	92.11	17.90	92.11	17.91	0.61	-809.28	-1613.32	-898.89	-1523.72	253.01
6	125	263	90.54	21.74	90.54	21.74	0.56	-886.49	-1811.15	-945.79	-1751.85	226.53
6	125	271	84.17	26.73	84.14	26.76	1.24	-1086.43	-2214.86	-1122.93	-2178.36	199.65
6	125	280	75.78	35.95	75.76	35.97	1.00	-1953.24	-2557.81	-2030.81	-2480.24	202.18
6	125	289	50.99	-42.81	-42.78	50.96	1.63	5375.81	2491.57	5371.39	2495.98	112.76
6	125	298	109.19	22.29	109.15	22.33	2.00	-1481.16	-2076.98	-1482.19	-2075.94	24.84

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
6	125	306	112.28	22.12	112.26	22.14	1.36	-1124.60	-1949.72	-1127.65	-1946.67	50.07
6	125	314	117.10	20.60	117.08	20.62	1.32	-974.00	-1639.72	-978.41	-1635.30	54.04
6	125	323	117.64	20.72	117.63	20.74	1.25	-965.13	-1578.06	-972.57	-1570.61	67.16
6	125	332	113.97	21.84	113.95	21.85	1.22	-1080.36	-1747.96	-1086.45	-1741.88	63.45
6	125	341	98.05	25.95	97.95	26.06	2.77	-730.08	-1513.94	-1508.74	-735.28	63.63
6	125	350	52.40	-9.74	-9.73	52.39	0.55	4944.74	2691.02	4944.66	2691.09	12.83
6	125	359	104.04	28.04	104.02	28.05	1.01	-1904.16	-2061.30	-2061.21	-1904.26	-3.85
6	125	368	101.86	25.23	101.86	25.23	-0.28	-974.74	-1224.91	-982.39	-1217.26	43.08
6	125	376	110.37	20.46	110.37	20.46	-0.31	-887.09	-1044.72	-959.21	-972.60	78.53
6	125	385	119.07	16.55	119.07	16.55	-0.22	-1038.40	-1306.64	-1216.46	-1128.59	126.72
6	125	394	138.34	2.07	138.33	2.08	-1.43	-965.44	-2069.84	-1023.11	-2012.16	245.70
6	125	403	29.77	-4.09	-4.09	29.77	-0.47	2801.53	440.18	2766.48	475.22	285.52
6	125	419	74.57	0.92	74.57	0.92	-0.10	-26.01	-325.09	-270.04	-81.06	115.90
6	125	582	126.11	-88.51	-17.47	55.07	-101.00	2758.34	-3084.24	-1662.01	1336.12	-2507.34
6	125	590	120.81	-50.04	-39.66	110.43	-40.81	1173.01	-2999.18	-2993.15	1166.99	-158.45
6	125	598	113.34	-20.58	-12.97	105.74	31.00	600.38	-2377.89	-1717.64	-59.86	1237.12
6	125	606	153.31	-79.43	-8.89	82.77	106.97	716.46	-1716.00	-385.03	-614.51	1210.80
6	125	614	78.76	-17.64	17.32	43.80	46.34	687.67	-1239.77	12.69	-564.78	919.45
6	125	622	33.41	-0.44	6.44	26.54	13.62	466.28	-728.50	112.59	-374.81	545.42
6	125	630	20.41	-16.40	-16.40	20.40	0.57	814.65	-334.16	203.32	277.17	573.22
6	125	637	7.56	-5.31	-1.36	3.61	5.93	2149.03	-473.68	701.77	973.58	1304.29
6	125	639	28.11	-38.16	-2.30	-7.76	-33.02	-257.86	-978.41	-577.83	-658.43	358.02
6	125	645	74.99	0.91	74.99	0.91	-2.32e-02	-49.88	-298.50	-271.88	-76.49	-76.87
6	125	646	67.73	0.71	67.72	0.72	-0.69	106.22	-335.51	-193.55	-35.74	-206.29
6	125	647	65.74	-7.04e-02	65.69	-2.50e-02	-1.73	302.78	18.87	229.02	92.63	-124.51
6	125	648	67.48	-5.61e-02	67.47	-5.51e-02	0.26	405.37	85.09	361.18	129.29	110.46
6	125	651	13.15	-20.41	11.99	-19.25	6.12	1732.76	-4304.68	-172.59	-2399.33	2805.90
6	125	666	27.73	-16.02	-0.46	12.16	-20.94	2082.76	-3031.58	1910.73	-2859.55	-922.07
6	125	675	68.59	-1.47	68.34	-1.22	-4.18	577.54	-1189.51	-809.41	197.44	-726.07
6	125	684	80.38	-2.68	80.17	-2.47	-4.23	415.31	-542.75	-542.06	414.63	-25.62
6	125	692	82.51	-1.35	82.48	-1.31	-1.78	647.67	-706.42	-497.64	438.89	488.99
6	125	700	77.41	7.08e-02	77.20	0.28	4.03	934.35	-1245.04	-587.27	276.59	1000.44
6	125	709	57.34	-6.52	51.01	-0.19	19.08	1525.46	-1345.03	333.89	-153.47	1414.41
6	125	718	49.78	-1.11	49.47	-0.80	-3.95	1080.44	-3523.14	1055.19	-3497.89	339.98
6	125	727	74.36	-2.63	70.99	0.74	-15.76	1451.09	-1610.13	-60.57	-98.46	-1530.49
6	125	735	99.46	-0.93	99.05	-0.51	-6.46	833.56	-1082.57	-628.55	379.54	-814.75
6	125	743	105.68	-1.37	105.61	-1.30	-2.76	572.71	-539.67	-488.29	521.33	-233.48
6	125	752	105.43	-1.21	105.43	-1.21	0.17	585.80	-614.90	-515.12	486.03	331.43
6	125	761	96.77	1.33	96.58	1.52	4.25	866.76	-1274.43	-659.73	252.06	968.68
6	125	770	64.64	-9.23	61.70	-6.29	14.45	1758.44	-1366.28	908.91	-516.76	1390.26
6	125	779	58.66	-1.03	54.66	2.96	-14.91	815.63	-3488.28	578.41	-3251.06	-982.20
6	125	788	72.81	-9.78e-02	69.23	3.48	-15.76	1093.17	-1089.52	-196.01	199.66	-1073.26
6	125	797	90.26	-0.59	90.07	-0.40	-4.08	669.63	-702.00	-505.81	473.43	-480.23
6	125	805	97.97	-0.90	97.93	-0.87	1.93	653.09	-490.53	-476.01	638.57	128.06
6	125	814	103.22	-2.25	102.97	-1.99	5.17	1102.72	-1090.50	-682.10	694.32	853.77
6	125	823	99.97	-1.19	99.51	-0.73	6.83	1828.73	-2575.61	-1387.73	640.85	1954.68
6	125	832	83.44	-11.86	75.57	-4.00	26.23	-879.51	-3641.22	-1081.01	-3439.72	718.25
6	125	848	65.89	0.37	65.88	0.37	0.67	242.84	-284.23	-40.07	-1.32	262.82
6	125	1011	23.29	-21.37	-17.77	19.69	12.16	561.01	36.15	261.71	335.45	259.83
6	125	1019	26.84	-4.27	0.77	21.80	11.46	410.40	-426.16	269.49	-285.25	313.09
6	125	1027	28.26	1.33	2.36	27.23	5.17	338.85	-424.60	329.97	-415.72	-81.86
6	125	1035	26.49	2.42	2.51	26.40	-1.45	423.89	-694.94	202.73	-473.77	-445.57
6	125	1043	21.14	-0.33	4.39	16.42	-8.89	519.13	-1095.43	-230.27	-346.04	-805.21
6	125	1051	10.98	-15.13	-4.64	0.49	-12.80	851.30	-1521.32	-1325.82	655.81	-652.40
6	125	1059	-3.92	-13.46	-12.67	-4.72	2.64	1621.36	-2284.63	-1903.45	1240.17	1159.14
6	125	1066	193.03	-220.34	38.77	-66.09	-199.93	9255.16	1380.49	6615.57	4020.09	-3717.32
6	125	1067	319.84	-330.83	-229.22	218.23	-236.20	6724.75	3756.01	4258.31	6222.46	-1113.05
6	125	1068	511.67	-930.98	-575.48	156.17	621.68	4949.30	-983.87	2984.71	980.72	2792.24
6	125	1069	223.97	-128.65	187.51	-92.19	107.37	2399.21	-965.10	2048.56	-614.45	1027.98
6	125	1070	111.06	-43.89	87.14	-19.96	55.99	1568.74	-1139.52	1228.03	-798.81	898.13
6	125	1071	56.22	-9.88	45.29	1.06	24.56	1545.49	-1015.04	1358.44	-827.98	666.31
6	125	1072	13.58	-22.69	0.76	-9.87	17.34	3552.89	-363.72	2925.72	263.44	-1436.32
6	125	1073	356.84	-239.43	356.04	-238.63	21.89	6307.38	1586.68	3162.07	4731.99	2226.00
6	125	1074	615.82	-1135.78	-496.96	-23.01	843.13	6062.96	-1446.06	-754.99	5371.88	-2170.65
6	125	1075	465.07	-998.51	-57.79	-475.66	-701.33	5015.48	-472.21	3525.24	1018.03	-2440.73
6	125	1076	204.26	-100.10	203.51	-99.35	-15.05	1978.51	197.07	1950.03	225.55	-223.43
6	125	1077	105.61	-26.04	105.60	-26.04	-0.80	1435.91	-555.06	1302.77	-421.92	497.35
6	125	1078	66.14	3.90	65.97	4.07	3.26	1399.42	-1068.59	936.17	-605.35	963.69
6	125	1079	56.20	15.51	35.58	36.13	-20.34	2414.59	-2160.89	1078.35	-824.65	2080.48
6	125	1080	188.04	-102.50	39.96	45.57	145.24	2667.96	-929.43	-859.61	2598.14	496.29

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
6	125	1081	165.95	-48.74	-33.64	150.85	54.90	3607.36	-549.43	-504.45	3562.37	-430.07
6	125	1082	192.03	-71.98	-71.87	191.92	5.49	2835.78	-232.43	41.35	2562.00	-874.68
6	125	1083	131.52	-51.41	42.71	37.40	-91.43	1346.02	204.07	424.75	1125.33	-450.89
6	125	1084	85.26	4.63	73.35	16.54	-28.61	453.39	59.52	289.44	223.47	194.15
6	125	1085	72.01	17.20	66.90	22.31	-15.93	392.05	-831.62	-108.32	-331.25	601.59
6	125	1086	81.34	14.48	73.60	22.22	-21.39	-221.89	-1273.55	-776.71	-718.74	525.03
6	125	1087	99.54	-5.43	47.91	46.19	52.48	1930.57	-908.04	-907.44	1929.97	-41.04
6	125	1088	87.68	9.27	24.53	72.43	31.04	2728.80	-1043.31	-1033.47	2718.96	-192.41
6	125	1089	76.79	19.74	20.10	76.43	4.53	2482.66	-831.73	-814.63	2465.57	-237.40
6	125	1090	66.24	29.44	39.27	56.40	-16.29	1578.87	-538.20	-536.93	1577.60	-51.82
6	125	1091	66.86	27.59	55.48	38.97	-17.82	655.89	-500.19	-460.43	616.14	210.67
6	125	1092	70.78	26.13	65.78	31.13	-14.08	-3.82	-816.35	-588.51	-231.67	364.99
6	125	1093	79.72	22.26	76.66	25.32	-12.91	-537.05	-1267.80	-788.01	-1016.83	347.00
6	125	1094	68.90	15.22	54.59	29.52	23.73	2247.43	-999.57	-864.13	2111.99	-649.17
6	125	1095	63.40	24.80	44.71	43.49	19.29	2937.06	-1065.80	-1050.78	2922.04	-244.73
6	125	1096	54.61	37.12	44.19	47.53	8.58	2722.78	-891.92	-885.91	2716.76	147.32
6	125	1097	50.69	43.94	50.36	44.26	-1.44	1867.59	-686.20	-638.95	1820.34	344.13
6	125	1098	59.94	36.62	57.88	38.68	-6.62	878.45	-659.11	-549.65	768.99	395.36
6	125	1099	67.00	32.26	65.35	33.91	-7.39	23.86	-874.93	-648.51	-202.56	390.18
6	125	1100	75.73	28.29	75.21	28.81	-4.97	-579.02	-1364.08	-825.91	-1117.20	364.51
6	125	1101	52.65	18.70	50.79	20.57	7.73	3395.96	-1010.48	-641.11	3026.59	-1221.13
6	125	1102	56.26	24.86	50.62	30.50	12.05	4088.91	-652.93	-640.84	4076.82	-239.18
6	125	1103	57.59	31.19	55.11	33.67	7.70	3523.51	-258.24	-134.27	3399.53	673.40
6	125	1104	59.57	34.58	59.49	34.65	1.41	2219.84	-156.84	99.78	1963.22	737.60
6	125	1105	62.80	33.90	62.51	34.19	-2.89	992.65	-249.18	24.10	719.38	514.47
6	125	1106	65.38	32.70	64.87	33.22	-4.06	58.15	-555.72	-273.34	-224.22	305.95
6	125	1107	69.41	31.34	69.40	31.35	0.61	-559.17	-1241.56	-714.54	-1086.19	286.15
6	125	1108	37.84	6.70	31.87	12.67	-12.26	6355.11	1059.97	1838.61	5576.47	-1875.29
6	125	1109	65.95	20.52	56.64	29.82	18.34	6306.19	-273.05	-249.91	6283.05	-389.50
6	125	1110	62.84	30.68	62.72	30.80	1.91	4839.36	1403.54	2377.23	3865.66	1548.34
6	125	1111	64.75	32.37	64.73	32.39	0.87	2469.16	870.77	1586.30	1753.62	794.80
6	125	1112	66.62	31.31	66.55	31.38	-1.49	1214.47	230.16	1010.85	433.78	398.71
6	125	1113	66.02	29.58	65.67	29.94	-3.59	669.08	-466.21	667.46	-464.59	42.80
6	125	1114	52.03	33.14	51.38	33.79	-3.45	492.98	-641.08	431.67	-579.76	-256.47
6	125	1115	70.26	-33.87	70.17	-33.78	3.06	6078.40	5516.53	6050.53	5544.40	-122.01
6	125	1116	61.24	12.20	59.77	13.66	8.35	1.650e+04	1.297e+04	1.299e+04	1.648e+04	229.38
6	125	1117	56.86	40.57	56.50	40.94	2.42	4399.50	2981.94	4182.66	3198.78	510.26
6	125	1118	67.89	35.43	67.11	36.22	4.98	2366.63	1450.50	2363.01	1454.11	57.45
6	125	1119	70.37	31.67	70.25	31.79	2.12	1446.84	246.06	1441.10	251.80	82.81
6	125	1120	69.89	28.91	69.87	28.92	-0.77	1165.78	-718.41	1160.14	-712.78	102.90
6	125	1121	66.75	24.20	66.73	24.22	-1.01	1789.89	-1743.57	1756.48	-1710.15	-341.98
6	125	1122	71.35	5.62	67.15	9.82	16.09	6349.86	-74.34	889.49	5386.03	2294.10
6	125	1123	87.78	11.83	86.26	13.35	10.63	6157.53	-37.91	-30.99	6150.62	206.87
6	125	1124	94.43	23.09	82.77	34.75	26.38	4468.02	572.54	1489.57	3550.99	-1652.67
6	125	1125	78.44	30.14	75.66	32.92	11.25	2194.79	774.97	1177.74	1792.02	-640.03
6	125	1126	76.35	31.42	75.73	32.04	5.26	848.63	359.59	734.08	474.13	-207.11
6	125	1127	75.97	32.12	75.97	32.13	-0.37	390.64	-493.85	359.70	-462.90	162.51
6	125	1128	79.02	32.56	73.87	37.71	-14.59	178.94	-1428.60	-323.73	-925.93	745.24
6	125	1129	79.77	10.14	77.43	12.48	12.55	3434.61	-1096.26	-806.12	3144.46	1109.24
6	125	1130	83.67	14.34	82.47	15.54	9.06	4123.83	-927.85	-912.12	4108.10	281.48
6	125	1131	86.24	19.90	84.44	21.70	10.78	3420.05	-571.14	-511.59	3360.51	-483.85
6	125	1132	84.05	25.80	82.69	27.16	8.81	2098.45	-379.58	-276.75	1995.61	-494.22
6	125	1133	82.62	29.86	82.25	30.23	4.41	807.19	-362.48	-300.85	745.56	-261.32
6	125	1134	85.01	31.41	84.98	31.44	-1.30	-254.27	-549.75	-536.08	-267.94	-62.07
6	125	1135	95.13	27.59	93.85	28.87	-9.22	-865.50	-1192.89	-870.37	-1188.03	-39.62
6	125	1136	84.41	12.63	83.39	13.65	8.50	2553.82	-976.59	-925.00	2502.23	423.64
6	125	1137	84.34	16.89	83.75	17.47	6.28	3198.18	-1246.71	-1237.08	3188.56	206.60
6	125	1138	85.48	20.91	85.06	21.33	5.20	2899.25	-1161.82	-1161.81	2899.24	-7.58
6	125	1139	85.68	25.30	85.42	25.56	3.94	1948.89	-960.37	-957.84	1946.36	-85.76
6	125	1140	86.59	28.72	86.51	28.79	2.04	821.19	-851.00	-847.67	817.86	-74.58
6	125	1141	90.90	29.59	90.90	29.59	-0.42	-237.76	-879.19	-875.53	-241.41	-48.30
6	125	1142	100.94	26.57	100.79	26.72	-3.31	-953.34	-1194.23	-957.54	-1190.02	-31.54
6	125	1143	84.64	13.47	84.45	13.66	3.69	2614.41	-933.58	-908.07	2588.90	-299.75
6	125	1144	85.65	17.07	85.51	17.21	3.08	3277.68	-1180.17	-1179.44	3276.95	57.05
6	125	1145	86.76	21.30	86.75	21.31	0.85	2931.93	-1096.18	-1070.92	2906.67	318.01
6	125	1146	86.57	25.83	86.57	25.83	-0.43	1920.56	-895.00	-859.57	1885.13	313.86
6	125	1147	87.30	29.11	87.30	29.11	-0.29	777.92	-792.39	-770.90	756.44	182.43
6	125	1148	91.47	29.86	91.46	29.87	0.81	-244.42	-838.28	-826.99	-255.71	81.13
6	125	1149	101.35	26.85	101.25	26.94	2.62	-916.45	-1173.19	-940.87	-1148.77	75.32
6	125	1150	81.33	12.13	81.32	12.15	1.04	3766.48	-913.66	-688.35	3541.17	-1001.86

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
6	125	1151	88.22	14.90	88.22	14.90	3.12e-02	4383.99	-606.59	-602.98	4380.38	134.18
6	125	1152	90.38	21.33	89.84	21.87	-6.09	3553.62	-367.64	-170.65	3356.63	856.53
6	125	1153	85.81	28.46	85.31	28.96	-5.36	1982.15	-221.20	14.80	1746.15	681.39
6	125	1154	84.80	30.81	84.71	30.90	-2.25	673.73	-233.55	-108.64	548.82	312.61
6	125	1155	86.92	31.91	86.87	31.96	1.66	-324.74	-379.14	-367.84	-336.04	22.07
6	125	1156	96.14	28.64	94.97	29.81	8.79	-806.86	-992.38	-806.90	-992.33	2.90
6	125	1157	74.66	-9.01	73.97	-8.32	-7.55	7127.60	2225.53	3175.26	6177.86	-1937.44
6	125	1158	112.44	21.27	108.67	25.04	-18.15	6754.77	480.15	632.09	6602.83	964.52
6	125	1159	89.44	39.65	79.65	49.44	-19.79	4399.04	884.93	2605.99	2677.98	1756.68
6	125	1160	80.40	34.00	79.97	34.44	-4.45	1934.31	803.96	1332.16	1406.11	563.96
6	125	1161	80.93	31.72	80.87	31.78	-1.69	861.05	145.14	795.32	210.87	206.74
6	125	1162	81.42	30.62	81.41	30.62	0.51	537.73	-608.58	529.21	-600.07	-98.42
6	125	1163	78.07	36.29	74.63	39.73	11.48	1015.92	-1356.07	614.64	-954.80	-889.27
6	125	1164	75.53	-29.53	64.21	-18.21	32.57	5540.69	3349.33	4662.06	4227.96	1073.97
6	125	1165	75.79	6.79	75.61	6.97	3.52	1.556e+04	1.155e+04	1.155e+04	1.556e+04	156.92
6	125	1166	73.04	20.49	66.34	27.19	17.53	4647.40	1952.91	3156.44	3443.86	-1339.55
6	125	1167	76.12	33.27	75.93	33.45	2.82	1871.23	1128.98	1826.78	1173.44	-176.12
6	125	1168	78.98	29.81	78.89	29.89	2.06	1043.42	75.40	1041.37	77.45	-44.53
6	125	1169	78.40	27.38	78.33	27.46	1.96	864.87	-735.00	860.42	-730.54	84.32
6	125	1170	69.53	18.64	69.00	19.17	-5.17	1689.92	-1498.99	1356.72	-1165.79	975.46
6	125	1171	61.24	12.04	54.38	18.90	17.05	5019.16	-270.98	219.28	4528.90	1534.01
6	125	1172	74.34	21.03	73.85	21.53	-5.11	4805.60	-1293.79	-1249.98	4761.79	515.06
6	125	1173	74.40	24.23	74.27	24.36	2.57	3676.46	455.67	755.99	3376.14	-936.53
6	125	1174	77.47	26.97	77.21	27.23	3.61	1829.04	264.06	556.11	1536.99	-609.72
6	125	1175	78.39	28.19	78.08	28.50	3.93	509.44	53.03	263.26	299.22	-227.50
6	125	1176	77.88	28.36	77.61	28.64	3.65	32.21	-457.36	16.28	-441.42	86.88
6	125	1177	69.60	33.23	69.53	33.30	-1.59	-254.16	-682.08	-316.67	-619.57	151.13
6	125	1178	74.15	14.39	72.54	16.00	9.67	3017.00	-977.04	-825.87	2865.84	762.18
6	125	1179	71.13	22.42	71.09	22.46	1.33	3439.81	-1210.24	-1192.02	3421.59	290.50
6	125	1180	72.87	25.29	72.87	25.29	-0.32	2854.09	-1004.84	-979.60	2828.85	-311.12
6	125	1181	74.39	28.22	74.37	28.24	0.83	1677.63	-849.94	-804.33	1632.02	-336.44
6	125	1182	76.13	30.20	75.94	30.38	2.93	519.14	-763.61	-741.36	496.89	-167.47
6	125	1183	79.29	30.72	79.09	30.93	3.13	-362.34	-811.17	-808.36	-365.16	-35.42
6	125	1184	86.75	28.01	86.72	28.04	-1.33	-885.71	-1028.38	-906.79	-1007.30	-50.62
6	125	1185	79.84	15.79	79.76	15.87	2.27	2505.01	-1057.69	-1057.53	2504.85	23.62
6	125	1186	74.96	21.61	74.83	21.74	-2.63	2890.85	-1562.04	-1562.01	2890.81	11.82
6	125	1187	72.12	26.85	71.62	27.35	-4.75	2513.43	-1631.76	-1631.76	2513.43	2.42
6	125	1188	69.83	31.94	69.64	32.14	-2.68	1596.57	-1498.47	-1497.74	1595.84	47.30
6	125	1189	71.17	34.43	71.06	34.54	1.97	540.96	-1352.03	-1345.64	534.57	109.83
6	125	1190	78.91	32.48	78.21	33.18	5.65	-396.66	-1258.10	-1235.93	-418.82	136.38
6	125	1191	92.24	27.26	91.85	27.65	5.02	-1025.43	-1227.92	-1128.26	-1125.09	101.23
6	125	1192	83.10	14.08	82.83	14.36	-4.36	2952.36	-1447.74	-1274.53	2779.15	-855.64
6	125	1193	79.70	16.97	78.44	18.23	-8.79	3362.34	-1841.64	-1819.42	3340.13	-339.29
6	125	1194	74.04	26.13	69.83	30.34	-13.55	2704.41	-1797.32	-1779.28	2686.37	284.37
6	125	1195	63.98	35.19	61.38	37.79	-8.25	1726.87	-1680.47	-1624.52	1670.92	433.03
6	125	1196	60.83	40.54	60.68	40.69	1.74	624.33	-1592.82	-1501.21	532.72	441.27
6	125	1197	74.58	34.28	70.83	38.03	11.71	-350.18	-1608.78	-1460.30	-498.67	406.00
6	125	1198	95.85	24.50	91.82	28.53	16.48	-1048.90	-1689.22	-1380.01	-1358.11	319.97
6	125	1199	91.63	14.44	91.63	14.44	-7.34e-02	5079.76	-2578.34	-1802.62	4304.04	-2310.58
6	125	1200	80.99	2.86	76.70	7.15	-17.80	4674.50	-1293.06	-1200.93	4582.37	-735.72
6	125	1201	93.65	15.63	68.53	40.75	-36.45	3436.09	-1867.10	-1594.44	3163.44	1171.16
6	125	1202	58.90	31.98	44.83	46.05	-13.44	1996.51	-1301.28	-1089.90	1785.13	807.72
6	125	1203	47.41	41.85	43.29	45.97	2.44	699.29	-1366.35	-1145.27	478.21	638.59
6	125	1204	67.43	30.37	53.62	44.19	17.92	-380.43	-1597.49	-1385.94	-591.98	461.21
6	125	1205	109.32	14.39	85.37	38.34	41.23	-1525.49	-2272.09	-2271.53	-1526.05	20.48
6	125	1206	86.21	-20.43	82.76	-16.98	-18.87	5512.71	1143.64	1521.95	5134.40	-1228.72
6	125	1207	33.38	3.58	30.79	6.18	-8.40	1.477e+04	8317.58	8610.63	1.447e+04	-1343.07
6	125	1208	57.47	20.14	25.62	51.99	-13.21	3471.78	977.80	978.48	3471.09	41.41
6	125	1209	47.40	18.86	21.57	44.69	-8.36	1989.68	-118.49	117.84	1753.35	665.11
6	125	1210	42.77	21.94	23.34	41.37	5.21	700.54	-751.01	-402.62	352.16	619.94
6	125	1211	55.40	16.22	32.70	38.91	19.34	-238.08	-1206.28	-656.50	-787.86	479.62
6	125	1212	77.07	17.46	56.46	38.07	28.36	-212.57	-3094.45	-922.79	-2384.23	1241.92
6	125	1213	35.51	-48.60	-10.58	-2.51	41.86	7574.04	2071.63	2071.67	7573.99	16.11
6	125	1214	65.65	-17.38	-2.43	50.69	-31.91	8211.33	-604.30	-601.50	8208.53	157.10
6	125	1215	34.78	-1.56	10.79	22.43	-17.22	4913.01	1479.75	1608.85	4783.91	-653.12
6	125	1216	21.77	3.92	4.94	20.75	-4.15	2231.33	314.80	419.30	2126.83	435.17
6	125	1217	22.30	4.11	5.96	20.45	5.50	841.15	-442.01	35.89	363.26	620.35
6	125	1218	39.50	-1.81	10.50	27.19	18.90	317.15	-1174.68	-5.85	-851.68	614.43
6	125	1219	67.91	-27.31	8.73	31.87	46.18	606.61	-940.24	479.04	-812.67	425.51
6	125	1220	5.60	-18.10	-8.19	-4.31	11.69	4216.70	-955.68	2901.33	359.68	2252.42

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
6	125	1221	28.34	2.95	16.52	14.78	12.67	1239.64	-810.18	1225.99	-796.53	166.74
6	125	1222	24.60	15.26	18.89	20.97	4.55	859.58	-837.49	851.47	-829.38	-117.05
6	125	1223	25.24	16.62	18.16	23.70	-3.30	1135.79	-838.22	1086.83	-789.26	-307.02
6	125	1224	29.42	9.01	14.25	24.18	-8.92	2206.27	-622.34	2137.11	-553.17	-436.87
6	125	1225	12.55	-26.53	-23.41	9.43	-10.59	7072.29	1241.07	4996.21	3317.15	-2792.13
6	125	1226	25.29	-115.91	-102.35	11.74	41.60	8963.55	7367.00	8836.89	7493.67	431.48
6	125	1227	62.11	-1.21	21.59	39.31	30.39	1728.89	-1493.46	968.62	-733.18	-1368.16
6	125	1228	35.51	20.40	30.52	25.39	7.10	676.78	-830.57	589.56	-743.36	-351.93
6	125	1229	29.93	27.11	29.69	27.35	-0.78	639.08	-814.56	632.05	-807.53	-100.86
6	125	1230	38.41	21.09	28.96	30.55	-8.62	929.04	-624.91	900.81	-596.68	207.54
6	125	1231	52.48	12.80	28.17	37.12	-19.33	1777.82	-278.40	1475.99	23.43	727.69
6	125	1232	153.11	-10.82	65.31	76.99	-81.76	5061.82	-2075.78	2140.70	845.34	3509.54
6	125	1233	113.50	-58.88	113.50	-58.88	-0.17	9081.86	-2591.05	-2067.85	8558.66	-2415.27
6	125	1234	74.87	16.16	62.73	28.29	23.77	-731.98	-909.68	-900.15	-741.51	40.02
6	125	1235	49.82	28.50	44.76	33.56	9.07	-339.03	-773.78	-409.55	-703.26	-160.27
6	125	1236	41.88	31.63	41.52	32.00	-1.91	-169.13	-564.79	-169.66	-564.26	14.41
6	125	1237	49.71	23.80	42.79	30.72	-11.46	182.10	-459.60	-88.76	-188.75	316.93
6	125	1238	66.37	12.24	51.74	26.87	-24.04	907.77	-683.52	-268.56	492.81	698.66
6	125	1239	79.06	-0.17	70.72	8.16	-24.31	1612.98	-916.48	-837.35	1533.85	440.33
6	125	1240	73.42	-2.16	69.01	2.25	-17.71	1242.85	-1048.60	-1039.21	1233.45	-146.42
6	125	1241	74.89	24.00	71.83	27.06	12.10	-807.29	-1185.81	-868.78	-1124.31	139.63
6	125	1242	59.97	29.81	58.33	31.44	6.82	-749.41	-829.56	-780.16	-798.81	38.97
6	125	1243	53.33	30.99	53.32	31.00	-0.42	-444.61	-703.39	-694.63	-453.37	46.78
6	125	1244	56.50	25.37	54.52	27.35	-7.60	31.32	-748.81	-722.28	4.78	141.41
6	125	1245	63.82	17.05	60.02	20.85	-12.77	577.93	-918.94	-882.90	541.89	229.45
6	125	1246	70.03	9.54	66.80	12.76	-13.59	922.13	-1075.19	-1058.16	905.10	183.64
6	125	1247	74.10	3.17	71.86	5.41	-12.40	734.93	-963.87	-963.69	734.74	17.82
6	125	1248	74.50	27.79	73.91	28.37	5.18	-871.04	-1281.00	-893.64	-1258.39	93.58
6	125	1249	65.36	29.57	64.60	30.33	5.16	-785.49	-903.29	-813.16	-875.61	49.94
6	125	1250	61.55	28.77	61.44	28.88	1.88	-468.40	-739.66	-739.06	-468.99	-12.70
6	125	1251	62.28	24.95	62.10	25.13	-2.59	57.26	-773.61	-767.93	51.59	-68.46
6	125	1252	65.26	19.31	64.44	20.13	-6.07	633.95	-915.33	-914.08	632.70	-43.99
6	125	1253	67.94	13.88	67.05	14.77	-6.86	993.47	-1052.79	-1044.25	984.93	131.95
6	125	1254	71.91	7.94	71.56	8.29	-4.71	882.03	-1014.33	-926.74	794.45	398.03
6	125	1255	69.35	30.33	69.26	30.43	1.91	-774.17	-1234.83	-815.71	-1193.29	131.96
6	125	1256	66.84	28.63	65.83	29.64	6.13	-462.77	-968.29	-520.15	-910.91	160.35
6	125	1257	67.00	26.63	66.48	27.15	4.56	-320.91	-600.21	-322.58	-598.54	-21.51
6	125	1258	67.67	24.08	67.61	24.13	1.52	147.46	-417.65	-247.99	-22.20	-259.02
6	125	1259	68.63	19.78	68.58	19.83	-1.54	987.93	-486.87	-363.29	864.35	-408.64
6	125	1260	66.63	16.71	66.51	16.83	-2.43	1675.70	-693.13	-689.46	1672.03	-93.20
6	125	1261	65.62	12.36	65.56	12.42	1.85	1680.91	-1184.37	-946.32	1442.87	790.81
6	125	1262	54.72	27.05	50.16	31.62	10.27	614.35	-830.78	336.13	-552.57	569.78
6	125	1263	69.30	23.95	67.76	25.49	8.21	405.56	-1192.04	318.18	-1104.66	363.26
6	125	1264	71.16	25.35	70.55	25.96	5.26	382.29	-868.27	379.70	-865.68	56.82
6	125	1265	71.19	26.31	70.95	26.54	3.23	699.72	-354.02	639.57	-293.87	-244.47
6	125	1266	71.36	25.61	71.09	25.88	3.51	1613.57	194.52	1109.99	698.09	-678.98
6	125	1267	69.05	14.84	68.96	14.94	2.23	3928.10	652.34	1183.02	3397.42	-1206.96
6	125	1268	51.76	13.79	51.72	13.83	-1.27	4026.00	-1582.02	-1029.92	3473.90	1670.75
6	125	1269	72.74	14.60	72.27	15.07	5.18	1783.79	-1750.30	1694.77	-1661.28	553.80
6	125	1270	73.77	22.88	73.39	23.25	4.33	802.39	-1345.12	796.21	-1338.94	115.06
...												
6	299	1449	6.35	-8.83	4.44	-6.92	5.03	8729.19	7262.86	8197.55	7794.50	704.92
M_G			N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
				-2127.44	-1188.97	-822.25	-2656.77		-1.810e+04	-1.548e+04	-7429.60	-6201.27
			3690.64		1813.54	2239.76	2517.19	2.022e+04		1.982e+04	1.788e+04	7301.40

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm2	daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	125	13	7.49	40.42	-12.05	39.11	-10.73	-8.20	1023.67	289.43	1023.22	289.87	-18.12
		14	7.91	82.76	-109.45	77.04	-103.73	-32.67	46.71	-611.04	-302.28	-262.05	-328.26
		15	18.78	26.96	-219.38	23.44	-215.87	-29.20	-497.00	-1900.88	-588.81	-1809.07	-347.07
		1	13.41	168.32	33.01	43.19	158.14	-35.69	290.55	-1218.89	266.56	-1194.90	-188.76
1	199	13	5.49	30.12	-3.02	29.08	-1.98	-5.77	754.65	201.67	754.33	202.00	-13.33
		14	5.96	60.71	-81.42	56.62	-77.33	-23.76	29.74	-464.84	-223.81	-211.29	-247.21
		15	13.95	15.33	-161.49	13.27	-159.43	-18.98	-363.77	-1429.39	-434.00	-1359.16	-264.39
		1	10.10	127.37	24.51	30.97	120.91	-24.94	201.55	-913.77	182.97	-895.19	-142.76
1	209	13	4.65	27.55	17.83	26.02	19.36	-3.54	652.64	135.00	652.61	135.03	-3.94

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		14	5.53	51.96	-72.77	48.84	-69.65	-19.46	-6.32	-445.01	-199.38	-251.94	-217.77
		15	12.62	-1.70	-139.89	-2.08	-139.50	-7.30	-314.89	-1357.67	-382.57	-1289.99	-256.90
		1	9.59	124.20	20.95	23.93	121.22	-17.28	131.07	-853.19	112.08	-834.19	-135.41
1	215	13	4.16	42.80	23.85	24.77	41.88	-4.07	588.09	69.86	587.84	70.12	-11.43
		14	5.72	46.25	-70.58	43.27	-67.61	-18.41	3.06	-475.00	-180.39	-291.55	-232.48
		15	11.79	-20.08	-128.37	-20.15	-128.29	2.89	-263.90	-1320.26	-336.65	-1247.52	-267.50
		1	9.45	127.91	17.07	18.17	126.82	-10.95	64.25	-821.85	42.44	-800.03	-137.31
1	235	13	7.48	60.81	-1.16	56.11	3.55	-16.42	716.53	-180.69	688.37	-152.53	-156.44
		14	10.64	58.78	-111.68	53.03	-105.94	-30.76	159.36	-851.99	-94.89	-597.73	-438.74
		15	15.77	-49.27	-167.38	-50.03	-166.62	-9.46	-211.17	-1766.68	-396.42	-1581.43	-503.82
		1	10.06	94.87	3.44	9.82	88.49	-23.30	86.69	-1138.21	-0.72	-1050.80	-315.32
1	267	13	6.50	52.77	8.61	48.22	13.16	-13.43	681.25	-114.67	662.38	-95.80	-121.09
		14	9.39	55.65	-101.40	50.58	-96.32	-27.78	118.71	-753.34	-117.03	-517.60	-387.30
		15	14.72	-42.16	-157.38	-42.53	-157.01	-6.47	-225.25	-1650.07	-380.92	-1494.40	-444.49
		1	9.88	102.65	7.36	11.91	98.10	-20.31	78.94	-1055.78	10.15	-986.99	-270.78
1	299	13	5.79	46.76	15.94	42.11	20.59	-11.03	655.02	-64.67	642.84	-52.49	-92.83
		14	8.43	53.21	-93.43	48.68	-88.90	-25.37	87.46	-679.16	-133.56	-458.14	-347.26
		15	13.94	-36.56	-149.73	-36.71	-149.58	-4.07	-236.23	-1562.58	-369.30	-1429.51	-398.48
		1	9.76	108.89	10.17	13.53	105.53	-17.91	73.67	-993.29	18.55	-938.17	-236.16
2	126	16	8.39	149.19	13.24	13.50	148.92	5.99	744.63	-27.57	742.68	-25.63	-38.67
		17	5.05	42.08	-30.54	27.82	-16.28	-28.85	140.42	-367.54	66.71	-293.83	-178.91
		14	8.19	0.07	-57.21	-4.06	-53.08	-14.82	91.14	-902.12	-73.31	-737.66	-369.19
		13	12.10	249.20	16.30	16.38	249.12	-4.26	341.80	-441.98	328.57	-428.76	-100.95
2	200	16	5.84	98.03	9.64	9.93	97.74	5.05	567.42	-2.92	566.25	-1.75	-25.82
		17	3.58	29.09	-23.97	20.77	-15.65	-19.29	102.68	-248.12	52.95	-198.39	-122.36
		14	6.03	3.70	-45.50	0.90	-42.70	-11.39	51.24	-649.94	-67.84	-530.87	-263.28
		13	8.51	171.22	13.25	13.30	171.17	-2.83	298.48	-298.64	290.55	-290.71	-68.38
2	210	16	4.03	44.65	7.03	8.44	43.24	7.16	547.90	57.25	547.86	57.29	-4.33
		17	2.57	20.85	-27.80	18.97	-25.92	-9.38	77.74	-123.74	60.84	-106.84	-55.85
		14	5.14	16.45	-51.08	14.52	-49.15	-11.25	-23.68	-506.17	-108.41	-421.44	-183.58
		13	6.08	105.60	15.65	15.66	105.59	-1.01	419.12	-166.40	417.50	-164.78	-30.74
2	215	16	3.96	9.63	-15.53	7.61	-13.51	6.83	580.48	126.69	580.46	126.71	-2.97
		17	2.23	18.28	-39.71	18.20	-39.62	-2.18	83.04	-25.91	71.95	-14.82	-32.94
		14	4.78	31.67	-63.09	29.49	-60.91	-14.20	-70.31	-396.04	-153.66	-312.70	-142.13
		13	4.27	40.81	19.28	19.41	40.69	-1.61	582.13	-38.47	581.96	-38.30	-10.12
2	243	16	7.81	29.54	-56.27	24.02	-50.75	-21.05	882.85	34.58	792.69	124.74	-261.44
		17	6.79	32.47	-85.13	24.20	-76.86	-30.07	524.26	-137.17	302.61	84.48	-312.22
		14	8.94	54.65	-109.74	43.06	-98.15	-42.09	303.83	-501.65	25.50	-223.32	-383.05
		13	7.83	59.01	-12.20	43.35	3.46	-29.49	805.28	-109.67	742.52	-46.91	-231.27
2	275	16	6.64	23.00	-44.49	19.85	-41.33	-14.24	796.63	67.36	737.98	126.01	-198.31
		17	5.54	28.31	-73.09	22.66	-67.45	-23.25	412.21	-108.33	243.58	60.30	-243.61
		14	7.83	48.70	-97.79	39.64	-88.73	-35.28	210.42	-475.27	-19.88	-244.97	-323.85
		13	6.75	50.86	-0.67	37.32	12.87	-22.68	741.53	-84.22	701.54	-44.23	-177.26
2	307	16	5.80	18.14	-35.62	16.65	-34.13	-8.82	732.91	89.99	696.76	126.14	-148.09
		17	4.59	25.21	-63.96	21.49	-60.24	-17.83	325.02	-85.23	198.76	41.03	-189.36
		14	6.99	44.10	-88.63	37.01	-81.53	-29.85	137.27	-454.33	-54.76	-262.30	-277.00
		13	5.95	44.73	8.00	32.66	20.07	-17.26	694.72	-67.15	670.29	-42.72	-134.24
3	126	18	6.15	75.24	3.45	6.79	71.90	15.12	782.25	94.14	782.12	94.28	-9.57
		19	2.69	23.18	-9.84	17.18	-3.85	-12.73	213.35	-97.49	208.61	-92.75	-38.10
		17	4.66	37.29	-23.35	23.64	-9.70	-25.32	142.86	-361.97	78.61	-297.72	-168.25
		16	8.46	150.87	12.57	12.93	150.51	7.09	722.08	-49.81	719.95	-47.69	-40.43
3	200	18	4.33	47.61	1.82	4.89	44.53	11.46	577.98	74.86	577.90	74.94	-6.36
		19	1.98	14.77	-9.08	12.32	-6.63	-7.24	161.15	-61.32	158.65	-58.81	-23.47
		17	3.31	25.68	-18.57	17.91	-10.80	-16.84	103.81	-246.88	60.50	-203.57	-115.38
		16	5.92	99.96	9.32	9.69	99.59	5.77	550.03	-21.45	548.74	-20.17	-27.09
3	209	18	3.54	4.43	-41.86	2.77	-40.20	8.61	460.26	106.37	460.18	106.45	-5.55
		19	2.13	8.82	-40.47	6.38	-38.04	10.68	167.45	39.99	167.36	40.08	3.35
		17	2.18	17.61	-40.82	17.61	-40.81	0.66	79.33	-18.87	70.60	-10.14	-27.94
		16	4.13	9.79	-25.71	8.56	-24.48	6.49	571.31	116.19	571.29	116.21	-3.32
3	215	18	3.40	5.57	-30.93	3.01	-28.37	9.33	467.94	100.66	467.92	100.69	-3.18
		19	2.05	8.84	-35.15	7.11	-33.42	8.55	165.25	27.34	165.07	27.52	4.95
		17	2.22	17.56	-36.31	17.52	-36.28	-1.34	78.84	-46.27	68.80	-36.22	-34.00
		16	3.86	11.07	-9.87	8.62	-7.42	6.72	561.44	96.51	561.41	96.54	-3.80
3	247	18	7.48	13.56	-72.79	9.93	-69.16	-17.34	861.29	14.53	718.39	157.43	-317.15
		19	6.34	15.14	-77.88	11.47	-74.21	-18.11	630.43	-70.01	424.88	135.54	-318.94
		17	7.05	33.67	-84.15	26.58	-77.07	-28.01	545.02	-172.83	304.77	67.42	-338.74
		16	7.77	25.62	-53.60	20.24	-48.21	-19.94	905.73	30.92	787.99	148.65	-298.56
3	279	18	6.22	9.82	-60.59	8.12	-58.89	-10.80	749.14	47.69	653.77	143.06	-240.43
		19	5.01	12.09	-65.71	10.33	-63.95	-11.58	503.38	-37.14	358.11	108.14	-239.62
		17	5.74	29.09	-71.61	24.28	-66.80	-21.47	425.61	-140.35	244.21	41.04	-264.12

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		16	6.57	20.36	-41.03	17.27	-37.95	-13.41	806.15	58.91	729.62	135.45	-226.57
3	311	18	5.30	7.32	-51.53	6.78	-50.99	-5.61	665.43	71.74	605.15	132.02	-179.31
		19	4.01	10.10	-56.66	9.48	-56.05	-6.39	405.61	-10.76	307.63	87.21	-176.62
		17	4.73	25.65	-62.04	22.52	-58.91	-16.28	332.85	-113.56	198.30	20.98	-204.84
		16	5.70	16.46	-31.50	15.01	-30.05	-8.21	732.69	78.17	685.56	125.30	-169.19
4	126	20	4.88	38.73	-4.57	4.07	30.09	17.30	728.99	122.26	728.53	122.72	16.66
		21	2.33	9.25	-5.76	9.25	-5.76	0.05	270.60	-31.90	263.88	-25.19	44.56
		19	2.61	23.89	-4.69	17.46	1.74	-11.93	213.50	-106.15	208.48	-101.12	-39.76
		18	6.24	81.29	4.74	7.80	78.23	15.00	769.30	82.80	769.14	82.97	-10.69
4	200	20	3.48	24.34	-4.86	2.92	16.56	12.90	533.31	91.44	532.97	91.77	12.12
		21	1.80	6.73	-7.66	6.50	-7.42	1.84	202.76	-19.02	197.48	-13.74	33.83
		19	1.91	15.23	-4.88	12.65	-2.30	-6.72	160.71	-67.99	157.96	-65.24	-24.89
		18	4.39	52.27	2.95	5.72	49.50	11.36	568.97	66.70	568.87	66.80	-7.08
4	209	20	3.09	3.49	-37.81	1.73	-36.05	8.34	393.69	84.92	393.68	84.93	2.09
		21	2.19	7.78	-38.37	2.48	-33.08	14.71	185.42	27.86	183.65	29.62	16.57
		19	2.04	10.12	-36.04	7.58	-33.50	10.52	161.94	33.03	161.94	33.04	0.75
		18	3.47	5.82	-36.18	4.04	-34.40	8.45	458.36	102.05	458.28	102.13	-5.16
4	215	20	3.02	4.46	-31.22	1.84	-28.61	9.29	403.28	84.20	403.20	84.29	5.24
		21	2.13	7.68	-34.04	2.95	-29.31	13.22	187.24	22.12	184.09	25.27	22.60
		19	1.96	10.04	-30.76	8.19	-28.91	8.48	160.34	20.55	160.30	20.59	2.43
		18	3.34	7.05	-25.52	4.21	-22.69	9.18	465.05	95.84	465.03	95.86	-2.93
4	247	20	7.19	9.52	-71.56	6.24	-68.28	-15.98	833.31	6.19	694.59	144.92	-309.03
		21	6.56	9.35	-70.83	7.49	-68.98	-12.05	625.15	-154.65	472.90	-2.40	-309.10
		19	6.77	17.50	-71.85	14.23	-68.58	-16.79	594.09	-186.42	407.20	0.47	-333.08
		18	7.37	13.51	-65.77	10.10	-62.36	-16.09	859.45	3.20	714.59	148.06	-321.02
4	279	20	5.90	6.54	-59.78	5.07	-58.31	-9.76	712.35	37.21	620.08	129.48	-231.91
		21	5.13	6.83	-59.53	6.31	-59.01	-5.83	503.20	-99.15	399.13	4.92	-227.72
		19	5.34	14.20	-60.14	12.67	-58.61	-10.57	477.19	-127.47	343.55	6.17	-250.89
		18	6.11	10.12	-53.95	8.56	-52.39	-9.87	746.71	38.12	650.16	134.67	-243.09
4	311	20	4.96	4.64	-51.05	4.21	-50.62	-4.85	621.39	59.75	563.46	117.68	-170.82
		21	4.07	5.44	-51.34	5.43	-51.32	-0.91	409.66	-56.64	342.98	10.03	-163.23
		19	4.26	12.00	-51.43	11.50	-50.92	-5.65	386.95	-81.60	295.59	9.76	-185.63
		18	5.20	7.88	-45.17	7.41	-44.70	-4.95	662.74	63.50	601.72	124.51	-181.22
5	133	22	4.83	4.17	-41.79	3.84	-41.46	3.84	661.93	127.77	661.93	127.77	1.38
		23	3.06	9.85	-46.47	3.76	-40.38	17.50	248.27	-18.69	246.98	-17.40	18.47
		21	2.91	10.21	-47.87	5.78	-43.44	15.41	271.35	2.74	262.75	11.34	-47.28
		20	5.09	4.93	-49.89	4.50	-49.46	4.84	683.19	138.54	681.43	140.29	-30.88
5	203	22	3.54	3.22	-30.94	2.79	-30.51	3.79	484.28	94.13	484.25	94.16	3.35
		23	2.30	7.64	-34.90	2.68	-29.93	13.66	186.35	-11.47	184.51	-9.64	18.94
		21	2.17	7.99	-35.53	4.34	-31.88	12.06	200.49	6.48	196.51	10.46	-27.50
		20	3.73	3.87	-36.33	3.34	-35.80	4.59	502.64	102.51	501.69	103.46	-19.53
5	214	22	2.93	4.49	-25.34	2.29	-23.14	7.79	400.10	79.78	399.32	80.56	15.77
		23	2.19	8.45	-31.18	2.07	-24.81	14.56	184.14	-1.52	173.78	8.84	42.62
		21	2.03	8.99	-29.53	4.22	-24.76	12.68	185.69	18.96	184.49	20.15	14.06
		20	3.08	5.57	-26.56	2.99	-23.98	8.73	423.84	87.37	423.83	87.38	1.56
5	215	22	2.82	4.69	-25.23	2.19	-22.74	8.27	380.80	76.40	379.77	77.43	17.67
		23	2.19	8.65	-31.23	1.91	-24.50	14.94	184.08	1.21	171.93	13.35	45.54
		21	2.04	9.22	-29.49	4.09	-24.36	13.12	185.46	21.18	182.55	24.10	21.70
		20	2.97	5.80	-26.42	2.89	-23.51	9.23	404.44	84.07	404.34	84.17	5.59
5	247	22	6.72	10.46	-60.86	6.98	-57.37	-15.37	801.63	33.89	700.60	134.93	-259.54
		23	5.80	8.63	-60.25	7.51	-59.13	-8.71	584.26	-101.06	480.60	2.59	-245.55
		21	6.12	11.53	-60.56	9.96	-58.99	-10.52	603.67	-133.99	459.86	9.82	-292.23
		20	6.93	10.95	-61.16	7.95	-58.15	-14.41	820.76	8.39	693.87	135.29	-294.93
5	279	22	5.52	7.35	-50.31	5.73	-48.69	-9.53	684.24	55.40	619.34	120.31	-191.32
		23	4.52	6.22	-50.59	6.08	-50.45	-2.87	467.87	-59.19	402.37	6.31	-173.87
		21	4.79	8.82	-50.67	8.45	-50.30	-4.68	486.69	-84.00	388.85	13.84	-215.09
		20	5.71	7.90	-50.74	6.62	-49.46	-8.58	703.79	38.19	619.81	122.17	-221.01
5	311	22	4.64	5.32	-42.48	4.80	-41.97	-4.94	595.74	70.29	556.91	109.12	-137.46
		23	3.60	5.05	-43.79	4.99	-43.73	1.72	379.38	-29.06	342.30	8.02	-117.34
		21	3.80	7.31	-43.59	7.31	-43.59	-0.09	397.29	-45.97	334.96	16.36	-154.09
		20	4.81	5.96	-43.07	5.64	-42.74	-3.98	616.05	59.74	563.56	112.23	-162.62
6	133	24	4.55	6.67	-23.30	6.42	-23.05	2.73	646.28	111.95	644.10	114.13	34.05
		25	3.38	12.77	-37.84	5.49	-30.56	17.77	230.61	-102.19	187.47	-59.05	111.78
		23	2.93	11.89	-40.41	5.22	-33.73	17.45	249.27	-16.91	247.87	-15.51	19.25
		22	4.78	5.49	-35.53	5.12	-35.16	3.87	667.47	130.51	667.46	130.51	1.50
6	203	24	3.33	5.04	-17.49	4.68	-17.13	2.82	471.73	82.35	469.92	84.16	26.44
		25	2.54	9.73	-28.64	3.85	-22.75	13.83	174.03	-73.76	140.24	-39.97	85.03
		23	2.20	9.25	-30.28	3.80	-24.82	13.63	187.06	-10.19	185.13	-8.27	19.40
		22	3.50	4.26	-26.15	3.77	-25.67	3.81	488.32	96.12	488.29	96.15	3.46
6	214	24	2.78	6.01	-15.31	3.98	-13.28	6.26	389.41	70.14	386.60	72.95	29.83

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		25	2.38	9.96	-26.91	2.64	-19.59	14.71	172.34	-55.88	133.68	-17.21	85.61
		23	2.11	10.26	-26.78	3.19	-19.72	14.55	184.44	-0.23	174.22	9.99	42.22
		22	2.90	5.79	-20.82	3.27	-18.30	7.79	403.48	81.39	402.68	82.19	15.99
6	215	24	2.68	6.20	-15.30	3.87	-12.98	6.67	372.53	67.42	369.62	70.34	29.67
		25	2.35	10.06	-27.02	2.43	-19.39	14.99	170.52	-50.89	132.51	-12.88	83.50
		23	2.11	10.49	-26.87	3.03	-19.41	14.93	184.28	2.62	172.38	14.51	44.93
		22	2.78	6.02	-20.75	3.17	-17.90	8.27	384.14	77.99	383.09	79.04	17.92
6	247	24	5.99	13.91	-43.76	10.38	-40.23	-13.83	738.87	59.07	681.70	116.24	-188.67
		25	4.84	10.23	-47.18	9.69	-46.65	-5.51	455.47	-98.19	424.67	-67.38	-126.92
		23	5.37	10.58	-47.20	10.04	-46.66	-5.57	542.88	-109.94	471.29	-38.34	-203.99
		22	6.37	12.03	-47.77	9.41	-45.15	-12.24	787.38	40.73	701.86	126.25	-237.78
6	279	24	4.98	10.47	-35.16	8.72	-33.41	-8.75	636.79	70.78	603.05	104.52	-134.01
		25	3.85	7.86	-39.83	7.86	-39.83	-0.43	364.35	-67.64	350.92	-54.21	-74.98
		23	4.23	8.26	-39.85	8.26	-39.84	-0.49	439.14	-69.46	395.40	-25.73	-142.59
		22	5.27	8.89	-39.42	7.81	-38.33	-7.16	675.22	60.00	621.10	114.12	-174.26
6	311	24	4.24	8.08	-28.75	7.45	-28.12	-4.77	560.43	77.47	542.30	95.59	-91.79
		25	3.16	6.74	-34.84	6.44	-34.54	3.54	297.46	-47.08	294.05	-43.66	-34.15
		23	3.41	7.18	-34.84	6.89	-34.55	3.49	360.87	-39.10	337.25	-15.48	-94.28
		22	4.47	6.85	-33.30	6.59	-33.04	-3.18	591.06	72.96	559.08	104.94	-124.70
7	109	26	3.85	11.57	-0.06	11.20	0.31	2.05	542.83	50.38	535.32	57.89	60.34
		27	4.31	13.14	-30.71	6.34	-23.90	15.87	224.32	-303.80	77.59	-157.07	236.56
		25	3.39	16.49	-33.34	7.50	-24.35	19.16	243.01	-94.45	196.91	-48.34	115.90
		24	4.54	8.95	-15.90	8.27	-15.23	4.05	657.73	121.61	655.35	123.99	35.65
7	191	26	2.81	8.62	-0.53	8.16	-0.06	2.01	395.65	37.42	389.91	43.17	44.99
		27	3.20	9.78	-23.23	4.34	-17.79	12.24	167.77	-220.80	58.87	-111.90	174.52
		25	2.54	12.53	-25.10	5.37	-17.94	14.77	182.53	-68.68	146.45	-32.60	88.10
		24	3.32	6.82	-12.02	6.05	-11.26	3.71	480.11	89.38	478.16	91.33	27.53
7	206	26	2.37	9.01	-1.66	6.98	0.37	4.19	328.06	32.79	322.16	38.69	41.31
		27	2.85	8.71	-22.24	2.39	-15.92	12.48	156.56	-180.57	59.80	-83.81	152.51
		25	2.37	12.66	-23.18	4.13	-14.65	15.26	177.29	-53.32	136.44	-12.48	88.04
		24	2.78	8.08	-10.72	5.20	-7.85	6.76	396.85	76.10	393.92	79.04	30.54
7	215	26	2.27	8.64	-2.17	6.61	-0.13	4.22	312.77	31.83	306.95	37.65	40.02
		27	2.75	8.51	-21.92	2.10	-15.51	12.41	152.17	-171.70	58.38	-77.92	146.89
		25	2.32	12.42	-22.87	3.87	-14.32	15.13	172.54	-51.36	131.78	-10.61	86.40
		24	2.67	7.89	-10.91	4.97	-7.99	6.81	379.63	73.11	376.68	76.06	29.92
7	247	26	4.44	18.74	-21.02	15.80	-18.09	-10.39	537.51	37.62	520.22	54.91	-91.35
		27	3.88	11.40	-33.58	11.29	-33.47	-2.21	247.71	-204.65	243.41	-200.35	43.90
		25	4.46	12.58	-32.28	12.58	-32.27	0.51	422.21	-123.38	413.72	-114.90	-67.49
		24	5.56	15.16	-27.43	13.68	-25.94	-7.81	725.30	73.80	686.77	112.33	-153.68
7	279	26	3.77	15.08	-15.21	13.48	-13.61	-6.76	474.31	42.48	466.52	50.27	-57.48
		27	3.35	9.04	-29.05	8.99	-28.99	1.42	209.96	-184.00	196.69	-170.72	71.10
		25	3.64	10.83	-28.24	10.38	-27.80	4.14	344.34	-91.48	342.50	-89.64	-28.26
		24	4.69	11.99	-21.99	11.47	-21.47	-4.18	630.44	81.12	608.62	102.94	-107.30
7	311	26	3.29	12.38	-10.81	11.69	-10.13	-3.93	427.78	44.23	425.03	46.97	-32.31
		27	3.02	7.74	-26.05	7.20	-25.51	4.25	185.47	-171.59	160.69	-146.81	90.75
		25	3.08	10.10	-25.72	8.68	-24.31	6.97	287.62	-69.32	287.62	-69.32	1.38
		24	4.06	9.84	-18.05	9.77	-17.98	-1.34	559.41	84.77	548.26	95.92	-71.90
8	110	7	1.63	18.36	-0.21	2.12	16.04	-6.15	149.95	-40.26	110.21	-0.52	77.33
		28	4.49	-9.71	-20.22	-14.22	-15.71	5.20	199.07	-485.77	-10.61	-276.08	315.64
		27	5.17	13.20	-18.74	8.40	-13.94	11.42	358.24	-393.44	83.47	-118.68	362.00
		26	3.64	22.79	6.63	13.82	15.60	8.03	500.51	41.86	482.38	59.99	89.38
8	192	7	1.19	13.32	-0.07	1.61	11.63	-4.44	110.59	-29.07	81.45	0.06	56.74
		28	3.31	-6.72	-15.50	-10.59	-11.62	4.36	144.88	-355.85	-7.58	-203.38	230.43
		27	3.82	10.09	-14.67	5.99	-10.57	9.20	261.96	-285.78	61.93	-85.74	263.73
		26	2.67	16.62	4.42	10.16	10.88	6.09	365.71	31.37	352.60	44.48	64.89
8	206	7	1.05	11.36	0.22	1.63	9.95	-3.70	99.22	-27.26	76.79	-4.82	48.32
		28	3.08	-3.11	-16.28	-8.44	-10.95	6.47	105.11	-330.69	-16.02	-209.56	195.24
		27	3.29	10.62	-17.76	4.65	-11.79	11.56	202.94	-229.77	51.29	-78.12	206.45
		26	2.29	13.20	2.36	9.28	6.27	5.21	310.48	30.01	302.58	37.91	46.41
8	215	7	0.99	10.69	0.27	1.60	9.35	-3.48	95.09	-25.26	73.31	-3.49	46.33
		28	2.94	-2.83	-15.96	-8.32	-10.47	6.48	101.90	-312.52	-13.83	-196.79	185.92
		27	3.18	10.46	-17.49	4.32	-11.35	11.57	196.53	-218.75	50.27	-72.49	198.36
		26	2.19	12.68	1.86	8.84	5.70	5.18	296.08	29.15	288.31	36.92	44.88
8	243	7	1.37	12.26	-2.59	7.15	2.52	-7.06	130.91	-77.93	115.02	-62.04	55.37
		28	4.86	-3.98	-17.94	-4.61	-17.30	2.90	112.08	-592.50	-4.31	-476.11	261.65
		27	5.04	16.63	-20.02	14.80	-18.18	7.99	291.82	-399.77	211.61	-319.57	221.44
		26	4.00	21.40	-1.25	21.29	-1.14	1.60	496.10	4.70	492.62	8.18	-41.24
8	275	7	1.27	11.19	-1.19	5.78	4.22	-6.14	120.88	-64.34	104.47	-47.93	52.64
		28	4.33	-4.26	-16.88	-5.55	-15.60	3.81	106.01	-519.42	-7.67	-405.73	241.21
		27	4.47	14.72	-19.02	12.18	-16.48	8.91	259.87	-346.22	170.88	-257.23	214.52

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		26	3.49	18.52	0.22	18.16	0.57	2.51	442.00	14.33	441.16	15.16	-18.85
8	307	7	1.20	10.61	-0.35	4.71	5.55	-5.47	113.62	-53.74	96.35	-36.47	50.92
		28	3.94	-4.24	-16.28	-6.25	-14.27	4.49	103.73	-464.60	-9.27	-351.60	226.83
		27	4.06	13.36	-18.37	10.14	-15.15	9.58	238.24	-308.14	139.49	-209.39	210.25
		26	3.11	16.44	1.20	15.74	1.90	3.19	401.42	20.71	401.41	20.73	-2.30
9	98	14	8.39	5.10	-59.68	1.38	-55.95	-15.08	65.47	-914.57	-25.47	-823.63	-284.35
		29	11.86	-14.47	-190.42	-27.88	-177.01	46.69	-160.92	-1088.05	-207.48	-1041.49	-202.49
		30	17.86	-183.71	-315.05	-294.56	-204.20	47.65	-184.10	-2090.00	-206.06	-2068.04	-203.42
		15	15.45	-22.64	-255.33	-225.82	-52.16	77.44	22.15	-1496.88	-101.98	-1372.75	-416.11
9	186	14	6.31	8.34	-48.73	5.95	-46.34	-11.42	44.04	-661.88	-29.61	-588.24	-215.79
		29	8.67	-5.26	-139.89	-15.25	-129.90	35.28	-124.00	-797.26	-166.22	-755.04	-163.22
		30	13.22	-132.60	-219.40	-199.78	-152.23	36.31	-158.06	-1542.93	-173.57	-1527.42	-145.74
		15	10.85	-25.96	-174.83	-153.32	-47.47	52.34	-15.18	-1157.83	-103.35	-1069.65	-304.92
9	209	14	5.79	48.13	-80.53	46.92	-79.32	-12.40	27.62	-412.85	-114.45	-270.78	-205.90
		29	5.88	42.11	-100.50	34.24	-92.63	32.56	-80.96	-592.31	-233.98	-439.30	-234.16
		30	11.29	7.85	-140.08	-2.14	-130.10	37.11	-310.33	-1173.77	-314.99	-1169.12	-63.21
		15	11.82	-3.18	-114.79	-3.30	-114.66	-3.68	-277.13	-1341.86	-319.29	-1299.70	-207.62
9	215	14	5.90	42.72	-76.10	41.44	-74.81	-12.29	31.76	-446.24	-102.41	-312.07	-214.78
		29	6.22	35.66	-105.84	27.53	-97.72	32.92	-87.53	-615.92	-225.04	-478.41	-231.84
		30	11.34	-17.17	-144.90	-28.97	-133.09	36.99	-286.08	-1207.17	-292.45	-1200.81	-76.32
		15	11.07	-23.42	-105.70	-23.62	-105.51	4.03	-240.02	-1309.42	-288.57	-1260.86	-222.63
9	235	14	12.11	53.60	-181.10	52.93	-180.43	-12.52	30.45	-989.68	-288.18	-671.05	-472.78
		29	10.28	38.47	-207.75	34.05	-203.33	32.69	1.48	-904.04	-367.86	-534.71	-445.01
		30	14.59	-67.54	-246.60	-75.43	-238.71	36.76	-259.75	-1294.84	-301.26	-1253.33	-203.10
		15	16.48	-64.96	-211.22	-65.06	-211.12	3.80	-251.22	-1713.65	-366.53	-1598.34	-394.13
9	267	14	10.52	50.69	-154.62	49.96	-153.90	-12.20	32.46	-851.06	-240.87	-577.73	-408.39
		29	9.27	37.42	-181.89	32.33	-176.80	33.02	-24.90	-832.74	-330.61	-527.03	-391.79
		30	13.79	-55.04	-220.92	-63.79	-212.17	37.08	-271.05	-1276.31	-300.99	-1246.37	-170.87
		15	15.09	-54.56	-184.72	-54.69	-184.59	4.12	-248.31	-1607.82	-345.81	-1510.31	-350.79
9	299	14	9.31	48.55	-134.16	47.73	-133.34	-12.25	32.70	-745.36	-204.71	-507.94	-358.27
		29	8.46	36.70	-161.87	31.07	-156.24	32.97	-42.08	-773.71	-302.86	-512.93	-350.41
		30	13.13	-45.36	-200.99	-54.74	-191.61	37.03	-276.11	-1255.43	-298.45	-1233.09	-146.21
		15	14.04	-46.48	-164.17	-46.62	-164.03	4.07	-246.65	-1528.82	-330.74	-1444.73	-317.41
10	98	17	3.98	39.20	-28.17	28.66	-17.63	-24.47	91.43	-294.56	89.02	-292.15	-30.39
		31	6.85	22.92	-114.53	20.51	-112.12	18.03	-122.40	-490.60	-132.58	-480.42	-60.36
		29	11.22	-32.63	-176.30	-45.97	-162.96	41.71	-193.52	-1070.63	-220.35	-1043.81	-151.03
		14	6.91	-10.96	-45.19	-13.29	-42.86	-8.61	21.86	-827.00	-26.27	-778.88	-196.31
10	186	17	2.96	27.84	-23.46	21.56	-17.19	-16.81	70.15	-200.04	67.85	-197.73	-24.87
		31	4.96	18.42	-84.59	16.42	-82.59	14.21	-92.96	-353.78	-104.94	-341.80	-54.60
		29	8.21	-18.20	-129.56	-27.94	-119.82	31.46	-150.48	-782.95	-175.93	-757.51	-124.27
		14	5.23	-3.55	-37.94	-5.02	-36.47	-6.96	9.02	-599.85	-29.96	-560.87	-149.05
10	210	17	2.92	23.42	-33.19	21.09	-30.86	-11.26	90.35	-132.05	71.56	-113.26	-61.86
		31	4.15	22.09	-76.00	19.62	-73.53	15.36	-61.48	-333.30	-129.56	-265.22	-117.78
		29	6.98	5.15	-114.42	-3.03	-106.24	30.19	-134.24	-679.49	-206.16	-607.57	-184.51
		14	5.30	14.65	-52.23	13.36	-50.95	-9.18	5.85	-509.41	-63.28	-440.28	-175.62
10	215	17	2.54	20.59	-45.29	20.17	-44.87	-5.27	89.95	-36.78	71.56	-18.38	-44.64
		31	3.37	25.73	-67.36	22.54	-64.18	16.93	-21.34	-275.56	-132.36	-164.54	-126.08
		29	5.98	29.03	-99.29	22.06	-92.32	29.10	-127.98	-593.22	-234.42	-486.77	-195.43
		14	5.19	32.72	-67.16	31.42	-65.86	-11.34	-27.31	-406.81	-101.17	-332.95	-150.25
10	247	17	7.11	34.60	-117.88	31.24	-114.52	-22.38	400.64	-341.04	33.14	26.47	-370.83
		31	7.88	30.29	-133.83	30.29	-133.83	-0.18	394.92	-583.83	-154.71	-34.20	-485.65
		29	9.12	32.35	-162.71	31.61	-161.97	11.99	186.21	-858.96	-306.21	-366.54	-521.72
		14	9.56	48.64	-139.90	44.25	-135.51	-28.45	215.34	-703.29	-189.65	-298.30	-456.09
10	279	17	5.88	30.97	-99.61	28.38	-97.02	-18.21	320.80	-261.58	43.23	15.99	-290.87
		31	6.73	28.39	-116.44	28.29	-116.33	3.98	291.66	-505.15	-148.28	-65.21	-396.23
		29	8.16	30.62	-145.96	29.13	-144.47	16.16	102.23	-784.85	-287.60	-395.03	-440.28
		14	8.41	44.56	-121.64	40.94	-118.01	-24.28	149.36	-622.70	-167.13	-306.21	-379.72
10	311	17	4.94	28.20	-85.45	26.22	-83.47	-14.87	257.43	-199.46	50.60	7.37	-227.42
		31	5.85	27.19	-103.19	26.78	-102.78	7.33	210.36	-444.78	-144.06	-90.36	-326.47
		29	7.47	29.65	-133.28	27.28	-130.91	19.50	37.91	-729.71	-273.61	-418.19	-376.94
		14	7.53	41.45	-107.46	38.44	-104.46	-20.94	99.25	-561.97	-149.89	-312.82	-320.42
11	126	19	3.07	27.94	-17.06	19.79	-8.92	-17.32	220.26	-103.83	215.13	-98.70	-40.46
		32	4.50	23.87	-73.44	23.77	-73.33	3.18	-74.10	-327.11	-108.64	-292.57	-86.87
		31	7.09	19.33	-113.27	17.53	-111.47	15.34	-94.51	-620.01	-184.95	-529.58	-198.36
		17	4.97	37.98	-28.98	25.32	-16.32	-26.22	161.93	-365.67	107.51	-311.25	-160.48
11	200	19	2.24	18.38	-14.45	14.18	-10.25	-10.96	164.98	-65.64	162.09	-62.76	-25.63
		32	3.23	17.45	-54.58	17.23	-54.36	3.96	-52.42	-229.00	-77.78	-203.64	-61.93
		31	5.10	15.87	-83.09	14.28	-81.50	12.44	-69.99	-445.50	-139.43	-376.06	-145.79
		17	3.58	26.78	-23.28	19.29	-15.79	-17.86	117.70	-250.86	80.14	-213.31	-111.50
11	210	19	1.93	11.07	-21.59	10.87	-21.39	-2.55	155.39	-14.39	155.27	-14.27	4.46

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		32	2.50	15.43	-49.47	13.97	-48.00	9.63	-37.18	-137.63	-50.91	-123.90	-34.50
		31	3.99	19.92	-70.73	17.28	-68.09	15.25	-66.67	-334.12	-126.84	-273.95	-111.68
		17	2.79	20.99	-28.52	18.95	-26.49	-9.82	89.73	-143.20	73.84	-127.31	-58.73
11	215	19	2.03	8.48	-35.73	8.17	-35.42	3.67	157.41	27.82	157.41	27.83	1.08
		32	2.01	14.75	-48.07	11.44	-44.77	14.03	-7.55	-99.95	-41.55	-65.95	-44.56
		31	3.16	24.69	-62.77	21.18	-59.25	17.17	-30.95	-274.91	-128.97	-176.89	-119.60
		17	2.54	19.98	-41.34	19.68	-41.04	-4.31	86.39	-56.86	71.35	-41.82	-43.92
11	247	19	6.64	18.57	-89.59	15.64	-86.65	-17.57	435.58	-321.26	145.91	-31.59	-367.86
		32	6.22	17.26	-96.45	16.81	-96.00	-7.21	425.97	-448.90	-60.88	37.95	-434.63
...													
1445	307	1068	12.60	-7.94	-71.29	-13.57	-65.65	18.04	5760.91	1643.30	5382.52	2021.70	1189.50
Elem.			Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
					-5707.50	-4684.07	-4020.52	-3894.34		-	-	-	-
										8.860e+04	4.557e+04	7.722e+04	4.724e+04
			399.84	8018.29		5046.83	4826.71	3068.32	1.221e+05		6.566e+04	8.248e+04	4.918e+04

16 eVERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.

16.1 LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a., in ottemperanza al cap. 7 del DM 17-01-18, viene effettuata una doppia progettazione: sia come *Singolo Elemento* sia come *Parete Sismica* o *Parete Debolmente Armata*.

Per la progettazione come *Singolo Elemento* di ogni elemento vengono riportati il codice dello stato di verifica con le sigle **Ok** e **NV**, il rapporto x/d , la verifica per sollecitazioni ultime (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti), gli sforzi membranali e flessionali, il quantitativo di armatura nella direzione principale e secondaria sia inferiore che superiore e il quantitativo di armatura a taglio.

Per la progettazione come *Parete Sismica* o *Parete Debolmente Armata* vengono riportate invece le caratteristiche geometriche della parete e delle zone dissipative (quest'ultime solo nel caso di parete sismica), i coefficienti di verifica a compressione assiale, pressoflessione e sollecitazioni taglianti.

Inoltre vengono riportate per ogni quota significativa l'armatura principale e secondaria, l'armatura in zona confinata (solo per parete sismica) e non confinata, l'armatura concentrata all'estremità (per pareti debolmente armate), lo sforzo assiale aggiuntivo per q superiore a 2 e i valori di involuppo di taglio e momento. Per le pareti debolmente armate viene riportato anche lo stato di verifica relativo alla snellezza.

Le azioni derivate dall'analisi, in ogni combinazione di calcolo, sono elaborate come previsto al punto 7.4.4.5.1: traslazione del momento, incremento e variazione diagramma taglio, incremento e decremento sforzo assiale

La progettazione nel caso dei gusci viene effettuata una progettazione come *Singolo Elemento*, riportando in tabella il rapporto x/d , la verifica per sollecitazioni ultime, (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti) di ogni elemento.

Per ogni elemento, viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso. Le quantità di armature necessarie sono armature (disposte rispettivamente in direzione principale e secondaria, inferiore e superiore) distribuite nell'elemento ed espresse in centimetri quadri per sviluppo lineare pari ad un metro.

Nel caso dei gusci viene effettuata, inoltre, la verifica a punzonamento, riportando in tabella il codice dello stato di verifica, il coefficiente di verifica per piastre prive di armature a taglio lungo il perimetro resistente e lungo il perimetro del pilastro, coefficiente di incremento dovuto ai momenti flettenti, fattore di amplificazione per le fondazioni, il fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta, il quantitativo di armatura a punzonamento, il numero di serie di armature, il numero di braccia di armatura ed il riferimento alla combinazione più gravosa.

Simbologia adottata nelle tabelle di verifica

Per gli elementi con progettazione di tipo "*Singolo Elemento* ..." è presente una tabella con i simboli di seguito descritti:

Macro Guscio	Numero del macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)

Macro Setto	Numero del macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
Spessore	Spessore della parete
Id Materiale	Codice del materiale assegnato all'elemento
Id Criterio	Codice del criterio di progetto assegnato all'elemento
Progettazione	Sigla tipo di Elemento: - Singolo Elemento; - Singolo Elemento FONDAZIONE; - Singolo Elemento NON DISSIPATIVO

Per gli elementi con progettazione di tipo “*Parete Sismica*” e “*Parete Debolmente Armata*” è presente una tabella con i simboli di seguito descritti:

Parete	Numero della PARETE SISMICA
Parete PDA	Numero della PARETE DEBOLMENTE ARMATA
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento (solo in Parete Sismica)
H critica V	Altezza della zona dissipativa (solo in Parete Sismica)
L totale	Larghezza di base della parete
L confinata	Lunghezza della zona dissipativa (solo in Parete Sismica)
Verif. N	Verifica di cui al punto 7.4.4.5.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.1 pressoflessione
Fattore V	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
Diagramma V	Diagramma elaborato per effetto modi superiori come da fig. 7.4.4
Verif. V	Verifica di cui al punto 7.4.4.5.1 taglio (compressione cls, trazione acciaio, scorrimento in zona critica) (solo in Parete Sismica)
Verifica Snellezza	Verifica di cui al punto 7.4.4.5.1 limitazione compressione per prevenire l'instabilità (solo in Parete Debolmente Armata)
Prog. composta	Sigla per la progettazione composta

Sia per le verifiche degli elementi con progettazione di tipo “*Singolo Elemento ...*” e “*Parete ...*” è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
V N/M	Verifica delle sollecitazioni Normali (momento e sforzo normale)
Ver. rid	Rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd)
Af pr+	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr-	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec+	quantità di armatura richiesta in direzione secondaria relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	quantità di armatura richiesta in direzione secondaria relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Nz No Nzo	Sforzi membranali per pareti e/o setti verticali
Mz Mo Mzo	Sforzi flessionali per pareti e/o setti verticali
Nx Ny Nxy	Sforzi membranali per gusci orizzontali

Mx	Mx	Mxy	Sforzi flessionali per gusci orizzontali

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
Max tau	Tensione tangenziale Massima
Ver V pr	Verifica a taglio nella direzione principale lato calcestruzzo
Ver V sec	Verifica a taglio nella direzione secondaria lato calcestruzzo
Af V pr	Armatura nella direzione principale
V pr-	Verifica dell'armatura nella direzione principale
Af V sec	Armatura nella direzione secondaria
V sec-	Verifica dell'armatura nella direzione secondaria

Per le verifiche degli elementi con progettazione "*Parete Sismica o Parete Debolmente Armata*", oltre alla tabella con le verifiche per gli elementi con progettazione "*Singolo Elemento ...*", è presente una tabella con i simboli di seguito descritti:

Quota	Ascissa verticale di riferimento
Af conf.	Numero e diametro armatura presente in una zona confinata
Af std	Diametro e passo armatura in zona non confinata (doppia maglia)
Af estremi	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
Af V (ori)	Diametro e passo armatura orizzontale (doppia maglia)
Ver. N	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
Ver. N/M	Rapporto tra azione di calcolo e resistenza a pressoflessione
Ver. V acc(7)	Rapporto tra azione di calcolo e resistenza a taglio-trazione per alfaS minore di 2 secondo paragrafo 7.4.4.5.1
Ver. V cls	Rapporto tra azione di calcolo e resistenza a taglio-compressione
Ver. V acc	Rapporto tra azione di calcolo e resistenza a taglio-trazione
Ver. V scorr.	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
N add	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
N invil M invil	Inviluppo del Momento e Sforzo Normale come al punto 7.4.4.5.1 (informativo) (solo in Parete Sismica)

Quota	Ascissa verticale di riferimento
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
N v.Vacc, M v.Vacc, V v.Vacc,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
N v.Vscorr, M v.Vscorr, V v.Vscorr,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e attinge il massimo valore
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore

N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore

Quota	Ascissa verticale di riferimento
CtgT Vcls	Valore di ctg(teta) adottato nella verifica V compressione cls
Vrsd Vcls	Valore della resistenza a taglio trazione (armatura di calcolo)
Vrcd Vcls	Valore della resistenza a taglio compressione
CtgT Vacc	Valore di ctg(teta) adottato nella verifica V trazione armatura
Vrsd Vacc	Valore della resistenza a taglio trazione (armatura presente)
Vrcd Vacc	Valore della resistenza a taglio compressione
Vdd	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]
A s.i.	Somma delle aree di armature
Incli.	Angolo di inclinazione delle armature
Dist.	Distanza alla base tra le armature inclinate

Quota	Ascissa verticale di riferimento
V[7.4.16]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.16)
N M V	Sollecitazioni di calcolo della condizione più gravosa
Alfas	Rapporto di Taglio
Vrd,c	Resistenza a taglio degli elementi non armati
VRd,s	Resistenza a taglio nei confronti dello scorrimento
V[7.4.17]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.17)
roH	Rapporto tra l'armatura orizzontale e l'area della sezione relativa di calcestruzzo
roV	Rapporto tra l'armatura verticale e l'area della sezione relativa di calcestruzzo
roN	Sforzo normale adimensionalizzato Ned/(bw fyd)

Per la verifica a *Punzonamento* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
V. 6.47	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro resistente U1
V. 6.53	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro del pilastro U0
Beta	Fattore di incremento dovuto ai momenti flettenti
f. a fon	fattore di amplificazione per le fondazioni (solo per gusci di fondazione)
f. Uout	fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta
Aw tot	Quantitativo di armatura per la verifica di piastre munite di armatura (formula 6.52 dell'EC2)
Asw,min	Quantitativo minimo di armatura previsto dai dettagli costruttivi (formula 9.11 dell'EC2)
n. x serie	Numero di serie di armature
n.ser 0(R)	Numero di braccia delle armatura in direzione 0 (o numero di braccia radiale)
n.ser 90	Numero di braccia delle armatura in direzione 90 (solo se armatura cruciforme)
Rif. cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

16.2 PROGETTAZIONE DELLE FONDAZIONI

Il D.M.17/01/2018 - par: 7.2.5 prevede:

“Sia per CD“A” sia per CD“B” il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall’analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- [...];
- quella trasferita dagli elementi soprastanti nell’ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD“A” e 1,10 in CD“B”;

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall’analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO_SAP (per travi e platee) o da PRO_CAD Plinti (per plinti e pali di fondazione) incrementando la componente sismica delle combinazioni di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee. Per i bicchieri dei plinti di fondazione prefabbricati l’incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche di pali, plinti, plinti su pali, travi e platee vengono effettuate dal modulo geotecnico incrementando automaticamente la componente sismica delle azioni di un fattore 1.1 in CDB e 1.3 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza nessun incremento.

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
1	cm 30.00	5	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.15	0.4	1.01e-02	7.7	7.7	7.7	7.7	228.6	-29.4	-44.1	-764.5	-610.9	212.7
4	ok	0.15	0.7	0.1	7.7	7.7	7.7	7.7	-565.7	-68.0	109.0	-1940.9	-96.6	212.1
7	ok	0.15	3.96e-02	9.31e-04	7.7	7.7	7.7	7.7	15.3	3.8	6.4	-10.3	113.7	-74.6
10	ok	0.15	0.7	1.04e-02	7.7	7.7	7.7	7.7	-47.1	-3.4	-11.9	-615.7	-25.6	-89.8
13	ok	0.15	0.2	6.05e-03	7.7	7.7	7.7	7.7	249.1	16.4	4.3	-428.8	328.6	101.0
14	ok	0.15	0.1	2.93e-02	7.7	7.7	7.7	7.7	-179.0	52.5	14.6	-663.9	-284.2	478.3
15	ok	0.15	0.2	5.40e-02	7.7	7.7	7.7	7.7	-63.7	-230.7	-77.4	-1325.2	-94.6	459.2
16	ok	0.15	0.2	1.55e-02	7.7	7.7	7.7	7.7	152.3	13.2	-9.0	-50.1	694.3	2.1
17	ok	0.15	0.1	2.00e-02	7.7	7.7	7.7	7.7	-77.1	26.6	28.0	67.4	304.8	338.7
18	ok	0.15	0.2	1.61e-02	7.7	7.7	7.7	7.7	84.5	4.4	-16.3	23.5	401.3	-52.8
19	ok	0.15	0.1	1.51e-02	7.7	7.7	7.7	7.7	-68.6	14.2	16.8	0.5	407.2	333.1
20	ok	0.15	0.1	1.33e-02	7.7	7.7	7.7	7.7	-68.3	6.2	16.0	144.9	694.6	309.0
21	ok	0.15	0.1	1.22e-02	7.7	7.7	7.7	7.7	-69.0	7.5	12.0	-2.4	472.9	309.1
22	ok	0.15	0.1	9.96e-03	7.7	7.7	7.7	7.7	-57.4	7.0	15.4	134.9	700.6	259.5
23	ok	0.15	0.1	1.04e-02	7.7	7.7	7.7	7.7	-59.1	7.5	8.7	2.6	480.6	245.5
24	ok	0.15	0.1	7.08e-03	7.7	7.7	7.7	7.7	-40.2	10.4	13.8	116.2	681.7	188.7

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
25	ok	0.15	0.1	8.52e-03	7.7	7.7	7.7	7.7	-46.6	9.7	5.5	-67.4	424.7	126.9
26	ok	0.15	0.1	3.40e-03	7.7	7.7	7.7	7.7	-18.1	15.8	10.4	54.9	520.2	91.3
27	ok	0.15	8.49e-02	6.56e-03	7.7	7.7	7.7	7.7	-18.8	13.7	-11.1	-337.4	201.7	-136.4
28	ok	0.15	9.58e-02	5.79e-03	7.7	7.7	7.7	7.7	-20.0	14.4	-8.6	-530.4	-83.8	-249.2
29	ok	0.15	0.2	4.15e-02	7.7	7.7	7.7	7.7	-169.8	-46.1	-40.3	-980.7	-248.2	270.8
30	ok	0.15	0.2	6.72e-02	7.7	7.7	7.7	7.7	-218.1	-298.1	-53.4	-1880.9	-246.1	202.5
31	ok	0.15	0.1	2.51e-02	7.7	7.7	7.7	7.7	-109.6	16.3	-12.4	-528.5	-180.0	195.0
32	ok	0.15	0.1	1.70e-02	7.7	7.7	7.7	7.7	-102.1	17.4	-3.5	83.5	9.2	439.1
33	ok	0.15	0.1	1.31e-02	7.7	7.7	7.7	7.7	-52.0	15.8	-21.5	-28.3	76.6	95.6
34	ok	0.15	0.1	1.06e-02	7.7	7.7	7.7	7.7	-63.8	14.2	-8.2	-191.0	-73.2	297.6
35	ok	0.15	0.1	9.52e-03	7.7	7.7	7.7	7.7	-36.4	23.8	-6.5	-494.0	-167.6	23.9
36	ok	0.15	9.17e-02	8.16e-03	7.7	7.7	7.7	7.7	-26.6	29.1	-15.4	-725.5	-206.4	-256.4
37	ok	0.15	0.1	9.25e-03	7.7	7.7	7.7	7.7	-6.8	-55.7	8.1	96.3	42.9	-96.2
38	ok	0.15	0.2	4.59e-02	7.7	7.7	7.7	7.7	-149.5	-70.6	-86.9	-997.8	-348.3	216.4
39	ok	0.15	0.2	4.95e-02	7.7	7.7	7.7	7.7	-165.2	-199.4	-54.4	-1628.9	-384.1	-11.2
40	ok	0.15	0.1	3.11e-02	7.7	7.7	7.7	7.7	-118.6	-10.4	-57.0	-659.1	-301.5	201.1
41	ok	0.15	0.1	2.13e-02	7.7	7.7	7.7	7.7	-87.7	9.0	-30.5	-462.8	-254.1	110.3
42	ok	0.15	0.1	1.51e-02	7.7	7.7	7.7	7.7	-55.0	14.1	-25.1	-170.7	-169.4	141.5
43	ok	0.15	0.1	1.15e-02	7.7	7.7	7.7	7.7	-51.4	18.2	-21.8	-554.6	-272.3	260.2
44	ok	0.15	0.1	9.86e-03	7.7	7.7	7.7	7.7	-40.2	23.3	-22.5	-807.7	-296.5	76.5
45	ok	0.15	0.1	8.73e-03	7.7	7.7	7.7	7.7	-29.4	25.5	-18.8	-1005.3	-295.1	-251.0
46	ok	0.15	0.1	1.15e-02	7.7	7.7	7.7	7.7	-29.2	29.3	-19.1	-1180.4	-261.8	-208.3
47	ok	0.15	0.2	3.54e-02	7.7	7.7	7.7	7.7	-77.1	-92.7	-86.0	-900.5	-294.3	186.0
48	ok	0.15	0.3	2.72e-02	7.7	7.7	7.7	7.7	-55.9	-95.9	-47.7	-968.3	-307.8	-18.1
49	ok	0.15	0.2	2.83e-02	7.7	7.7	7.7	7.7	-88.3	-42.2	-67.8	-732.3	-297.9	192.5
50	ok	0.15	0.1	2.15e-02	7.7	7.7	7.7	7.7	-83.0	-14.3	-43.4	-592.8	-293.8	114.3
51	ok	0.15	0.1	1.65e-02	7.7	7.7	7.7	7.7	-60.8	9.5	-28.8	-528.6	-299.4	409.7
52	ok	0.15	0.1	1.30e-02	7.7	7.7	7.7	7.7	-50.9	17.6	-26.7	-773.1	-346.8	282.8
53	ok	0.15	0.2	1.05e-02	7.7	7.7	7.7	7.7	-40.9	25.0	-26.9	-1066.4	-368.8	112.1
54	ok	0.15	0.2	8.88e-03	7.7	7.7	7.7	7.7	-30.4	32.2	-21.9	-1247.4	-358.3	-125.9
55	ok	0.15	0.2	1.29e-02	7.7	7.7	7.7	7.7	-30.3	41.0	-23.3	-1384.0	-307.2	-140.1
56	ok	0.15	0.3	2.50e-02	7.7	7.7	7.7	7.7	-36.8	-85.8	-54.2	-812.5	-215.9	171.3
57	ok	0.15	0.3	1.70e-02	7.7	7.7	7.7	7.7	-15.1	-55.5	-36.1	-593.4	-197.4	53.0
58	ok	0.15	0.2	2.27e-02	7.7	7.7	7.7	7.7	-57.4	-59.6	-51.0	-783.3	-255.0	151.7
59	ok	0.15	0.1	1.91e-02	7.7	7.7	7.7	7.7	-66.3	-32.7	-39.3	-692.9	-285.0	92.7
60	ok	0.15	0.1	1.59e-02	7.7	7.7	7.7	7.7	-60.9	7.9	-30.7	-687.0	-328.3	404.1
61	ok	0.15	0.2	1.31e-02	7.7	7.7	7.7	7.7	-51.6	16.1	-30.0	-994.5	-389.3	295.2
62	ok	0.15	0.2	1.08e-02	7.7	7.7	7.7	7.7	-41.1	26.3	-30.8	-1290.1	-404.2	159.2
63	ok	0.15	0.2	9.87e-03	7.7	7.7	7.7	7.7	-30.9	37.9	-24.6	-1458.5	-394.4	-52.6
64	ok	0.15	0.2	1.38e-02	7.7	7.7	7.7	7.7	-30.8	50.2	-26.7	-1555.1	-341.0	-45.7
65	ok	0.15	0.3	1.92e-02	7.7	7.7	7.7	7.7	-88.0	-34.4	10.8	1028.8	172.5	182.7
66	ok	0.15	0.3	1.48e-02	7.7	7.7	7.7	7.7	-72.5	-40.5	3.2	1139.9	229.4	153.0
67	ok	0.15	0.2	1.80e-02	7.7	7.7	7.7	7.7	-52.2	-62.4	-29.2	-824.4	-240.2	100.5
68	ok	0.15	0.2	1.67e-02	7.7	7.7	7.7	7.7	-60.0	-40.6	-28.6	-761.8	-275.6	61.3
69	ok	0.15	0.2	1.49e-02	7.7	7.7	7.7	7.7	-62.1	7.8	-33.1	-785.1	-332.2	394.1
70	ok	0.15	0.2	1.29e-02	7.7	7.7	7.7	7.7	-52.1	17.0	-34.2	-1152.9	-402.9	313.2
71	ok	0.15	0.2	1.09e-02	7.7	7.7	7.7	7.7	-41.6	25.5	-35.3	-1488.1	-436.1	188.9
72	ok	0.15	0.3	1.06e-02	7.7	7.7	7.7	7.7	-32.2	39.1	-34.2	-1687.0	-400.3	35.1
73	ok	0.15	0.3	1.43e-02	7.7	7.7	7.7	7.7	-32.0	51.5	-32.8	-1754.2	-371.9	-8.9
74	ok	0.15	0.3	2.53e-02	7.7	7.7	7.7	7.7	-143.7	-20.3	-11.8	1128.6	115.2	122.6
75	ok	0.15	0.4	2.86e-02	7.7	7.7	7.7	7.7	-150.6	-63.3	-15.3	955.6	183.4	96.7
76	ok	0.15	0.3	1.97e-02	7.7	7.7	7.7	7.7	-67.4	-56.4	-17.0	-857.2	-266.7	60.1
77	ok	0.15	0.2	1.71e-02	7.7	7.7	7.7	7.7	-79.3	2.0	-35.0	-511.0	-232.8	389.9
78	ok	0.15	0.2	1.49e-02	7.7	7.7	7.7	7.7	-65.6	10.6	-38.5	-850.8	-332.0	393.2
79	ok	0.15	0.2	1.30e-02	7.7	7.7	7.7	7.7	-53.2	18.6	-39.7	-1282.6	-406.1	333.5
80	ok	0.15	0.3	1.12e-02	7.7	7.7	7.7	7.7	-42.0	27.2	-40.1	-1662.5	-449.0	227.3
81	ok	0.15	0.3	1.11e-02	7.7	7.7	7.7	7.7	-32.4	40.0	-37.2	-1897.0	-432.4	78.8
82	ok	0.15	0.3	1.45e-02	7.7	7.7	7.7	7.7	-31.8	52.1	-40.6	-1939.9	-408.1	28.3
83	ok	0.15	0.3	3.08e-02	7.7	7.7	7.7	7.7	-165.3	-10.1	-43.1	1352.8	121.0	68.8
84	ok	0.15	0.3	4.22e-02	7.7	7.7	7.7	7.7	-197.0	-76.5	-54.9	928.9	156.1	-115.7
85	ok	0.15	0.3	2.30e-02	7.7	7.7	7.7	7.7	-121.9	-1.0	-53.4	903.0	22.4	235.5
86	ok	0.15	0.2	1.89e-02	7.7	7.7	7.7	7.7	-84.2	4.5	-47.6	-557.5	-226.5	392.9
87	ok	0.15	0.2	1.60e-02	7.7	7.7	7.7	7.7	-66.7	12.6	-47.3	-897.0	-321.2	403.9
88	ok	0.15	0.2	1.38e-02	7.7	7.7	7.7	7.7	-53.0	19.4	-46.4	-1393.5	-402.1	355.4
89	ok	0.15	0.3	1.18e-02	7.7	7.7	7.7	7.7	-41.7	27.8	-45.1	-1823.5	-458.4	260.7
90	ok	0.15	0.3	1.15e-02	7.7	7.7	7.7	7.7	-32.4	39.3	-40.0	-2102.9	-463.8	133.4
91	ok	0.15	0.3	1.43e-02	7.7	7.7	7.7	7.7	-31.9	53.3	-43.3	-2129.2	-445.0	74.7
92	ok	0.15	0.4	2.96e-02	7.7	7.7	7.7	7.7	-114.2	-23.3	-86.3	1781.5	293.7	14.7
93	ok	0.15	0.4	3.32e-02	7.7	7.7	7.7	7.7	-150.8	-59.9	-80.0	1590.5	308.6	-246.0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 202 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
94	ok	0.15	0.3	2.38e-02	7.7	7.7	7.7	7.7	-96.3	-8.8	-75.2	1167.9	138.2	237.2
95	ok	0.15	0.2	1.97e-02	7.7	7.7	7.7	7.7	-76.6	5.0	-61.5	-592.7	-184.6	403.6
96	ok	0.15	0.2	1.66e-02	7.7	7.7	7.7	7.7	-62.0	10.9	-56.3	-933.6	-292.0	416.9
97	ok	0.15	0.3	1.43e-02	7.7	7.7	7.7	7.7	-50.3	18.1	-52.6	-1493.8	-390.7	374.2
98	ok	0.15	0.3	1.22e-02	7.7	7.7	7.7	7.7	-40.3	26.7	-49.4	-1977.1	-465.8	286.8
99	ok	0.15	0.4	1.17e-02	7.7	7.7	7.7	7.7	-32.1	36.8	-42.0	-2306.7	-495.1	162.2
100	ok	0.15	0.4	1.40e-02	7.7	7.7	7.7	7.7	-32.0	51.9	-45.5	-2322.9	-482.4	97.0
101	ok	0.15	0.5	2.62e-02	7.7	7.7	7.7	7.7	-76.4	-27.3	-89.9	2324.1	472.4	-9.8
102	ok	0.15	0.5	2.48e-02	7.7	7.7	7.7	7.7	-61.7	-27.4	-82.0	2466.7	508.2	-279.1
103	ok	0.15	0.4	2.13e-02	7.7	7.7	7.7	7.7	-76.4	-13.9	-80.7	1422.2	251.4	223.8
104	ok	0.15	0.2	1.87e-02	7.7	7.7	7.7	7.7	-53.5	-6.4	-65.4	-654.1	-143.5	397.5
105	ok	0.15	0.2	1.63e-02	7.7	7.7	7.7	7.7	-53.2	6.4	-61.2	-963.9	-250.9	420.5
106	ok	0.15	0.3	1.42e-02	7.7	7.7	7.7	7.7	-45.6	15.0	-56.3	-1587.4	-375.4	384.7
107	ok	0.15	0.3	1.24e-02	7.7	7.7	7.7	7.7	-38.2	24.2	-52.0	-2126.4	-473.2	303.6
108	ok	0.15	0.4	1.18e-02	7.7	7.7	7.7	7.7	-31.7	33.1	-42.6	-2508.0	-526.7	180.9
109	ok	0.15	0.4	1.36e-02	7.7	7.7	7.7	7.7	-32.1	48.4	-46.7	-2518.9	-520.1	112.4
110	ok	0.15	0.5	2.15e-02	7.7	7.7	7.7	7.7	-35.4	-87.9	-32.9	-718.5	-103.0	-4.0
111	ok	0.15	0.5	1.84e-02	7.7	7.7	7.7	7.7	-13.1	-76.3	-27.1	-330.4	-71.3	-41.0
112	ok	0.15	0.4	1.85e-02	7.7	7.7	7.7	7.7	-48.7	-69.2	-28.9	-836.2	-143.7	30.1
113	ok	0.15	0.3	1.63e-02	7.7	7.7	7.7	7.7	-52.2	-9.7	-66.5	737.3	148.3	340.4
114	ok	0.15	0.2	1.51e-02	7.7	7.7	7.7	7.7	-44.9	2.0	-60.5	-987.1	-215.5	411.6
115	ok	0.15	0.3	1.38e-02	7.7	7.7	7.7	7.7	-41.2	11.6	-56.7	-1675.0	-364.5	385.5
116	ok	0.15	0.4	1.23e-02	7.7	7.7	7.7	7.7	-36.2	21.1	-52.6	-2272.3	-483.9	311.4
117	ok	0.15	0.4	1.17e-02	7.7	7.7	7.7	7.7	-30.6	28.7	-41.9	-2705.7	-559.5	191.2
118	ok	0.15	0.4	1.31e-02	7.7	7.7	7.7	7.7	-32.3	43.5	-46.9	-2714.4	-557.7	122.4
119	ok	0.15	0.6	1.81e-02	7.7	7.7	7.7	7.7	-40.7	-85.7	5.3	-960.3	-160.7	19.5
120	ok	0.15	0.6	1.78e-02	7.7	7.7	7.7	7.7	-20.1	-79.2	-2.1	-803.4	-168.4	68.0
121	ok	0.15	0.4	1.55e-02	7.7	7.7	7.7	7.7	-51.1	-67.0	-6.4	-822.8	-144.0	1.5
122	ok	0.15	0.3	1.45e-02	7.7	7.7	7.7	7.7	-53.3	-48.8	-12.0	-844.5	-168.9	13.7
123	ok	0.15	0.2	1.38e-02	7.7	7.7	7.7	7.7	-40.5	0.4	-56.6	-966.9	-200.7	396.9
124	ok	0.15	0.3	1.30e-02	7.7	7.7	7.7	7.7	-38.0	9.5	-54.9	-1757.0	-364.8	380.6
125	ok	0.15	0.4	1.19e-02	7.7	7.7	7.7	7.7	-35.3	18.3	-51.5	-2415.1	-500.8	313.2
126	ok	0.15	0.4	1.15e-02	7.7	7.7	7.7	7.7	-30.7	24.1	-40.1	-2899.7	-593.7	195.8
127	ok	0.15	0.4	1.24e-02	7.7	7.7	7.7	7.7	-31.7	37.8	-46.1	-2908.1	-595.1	128.2
128	ok	0.15	0.6	1.92e-02	7.7	7.7	7.7	7.7	-75.7	-74.8	17.6	-1044.9	-242.0	24.8
129	ok	0.15	0.6	2.12e-02	7.7	7.7	7.7	7.7	-68.6	-97.0	10.0	-1167.6	-258.7	123.0
130	ok	0.15	0.4	1.44e-02	7.7	7.7	7.7	7.7	-66.9	-57.1	3.3	-918.7	-209.5	-19.9
131	ok	0.15	0.3	1.42e-02	7.7	7.7	7.7	7.7	-53.5	-41.6	-8.9	-831.1	-185.3	9.3
132	ok	0.15	0.2	1.34e-02	7.7	7.7	7.7	7.7	-41.3	1.9	-53.1	-968.4	-198.4	386.6
133	ok	0.15	0.3	1.26e-02	7.7	7.7	7.7	7.7	-37.9	8.7	-52.6	-1835.2	-376.9	375.9
134	ok	0.15	0.4	1.17e-02	7.7	7.7	7.7	7.7	-34.3	16.6	-48.0	-2507.5	-514.5	311.1
135	ok	0.15	0.5	1.11e-02	7.7	7.7	7.7	7.7	-32.4	17.4	-39.2	-3143.9	-639.9	197.1
136	ok	0.15	0.5	1.15e-02	7.7	7.7	7.7	7.7	-33.6	22.3	-37.5	-3152.6	-641.8	118.6
137	ok	0.15	0.6	2.44e-02	7.7	7.7	7.7	7.7	-92.7	-65.7	-8.0	-839.6	-239.2	8.3
138	ok	0.15	0.6	3.14e-02	7.7	7.7	7.7	7.7	-124.7	-117.7	-7.8	-1141.5	-230.7	43.2
139	ok	0.15	0.4	1.74e-02	7.7	7.7	7.7	7.7	-71.3	-48.1	-8.1	-812.2	-215.7	12.4
140	ok	0.15	0.3	1.51e-02	7.7	7.7	7.7	7.7	-57.8	-36.3	-11.8	-819.9	-195.0	20.3
141	ok	0.15	0.2	1.37e-02	7.7	7.7	7.7	7.7	-41.9	4.4	-46.3	-969.6	-208.8	386.2
142	ok	0.15	0.3	1.24e-02	7.7	7.7	7.7	7.7	-38.3	8.8	-49.4	-1855.7	-381.5	370.8
143	ok	0.15	0.4	1.14e-02	7.7	7.7	7.7	7.7	-34.0	9.5	-41.5	-2695.8	-548.3	312.1
144	ok	0.15	0.5	1.06e-02	7.7	7.7	7.7	7.7	-33.1	12.9	-36.5	-3340.0	-677.5	197.4
145	ok	0.15	0.5	1.04e-02	7.7	7.7	7.7	7.7	-33.6	22.6	-44.0	-3349.6	-681.2	131.8
146	ok	0.15	0.6	2.62e-02	7.7	7.7	7.7	7.7	-114.6	35.1	-23.3	-145.7	-148.0	5.8
147	ok	0.15	0.6	3.63e-02	7.7	7.7	7.7	7.7	-137.9	-47.6	-38.2	2922.1	571.1	-172.4
148	ok	0.15	0.5	1.82e-02	7.7	7.7	7.7	7.7	-63.7	-47.4	-22.6	-796.2	-189.5	29.1
149	ok	0.15	0.3	1.51e-02	7.7	7.7	7.7	7.7	-54.4	-34.4	-21.6	-811.5	-179.3	33.0
150	ok	0.15	0.2	1.36e-02	7.7	7.7	7.7	7.7	-39.8	4.0	-46.6	-976.2	-206.9	394.0
151	ok	0.15	0.3	1.23e-02	7.7	7.7	7.7	7.7	-35.8	4.2	-43.0	-1993.9	-405.8	376.7
152	ok	0.15	0.4	1.11e-02	7.7	7.7	7.7	7.7	-33.8	9.6	-45.4	-2838.0	-574.3	311.8
153	ok	0.15	0.5	1.01e-02	7.7	7.7	7.7	7.7	-33.6	8.2	-33.4	-3536.4	-715.0	196.3
154	ok	0.15	0.5	9.51e-03	7.7	7.7	7.7	7.7	-34.2	16.3	-41.4	-3546.4	-719.6	131.4
155	ok	0.15	0.7	1.97e-02	7.7	7.7	7.7	7.7	-41.8	-73.4	-13.1	-674.4	-99.3	-38.6
156	ok	0.15	0.7	1.83e-02	7.7	7.7	7.7	7.7	-61.1	25.1	-43.4	258.2	54.3	-148.4
157	ok	0.15	0.5	1.51e-02	7.7	7.7	7.7	7.7	-51.5	-51.5	-20.0	-769.8	-130.2	31.3
158	ok	0.15	0.3	1.35e-02	7.7	7.7	7.7	7.7	-52.6	-35.4	-19.6	-805.0	-146.1	36.0
159	ok	0.15	0.2	1.28e-02	7.7	7.7	7.7	7.7	-28.3	-16.5	43.1	-1121.0	-214.8	-365.0
160	ok	0.15	0.3	1.19e-02	7.7	7.7	7.7	7.7	-34.0	3.1	-47.0	-2078.2	-412.7	377.1
161	ok	0.15	0.4	1.09e-02	7.7	7.7	7.7	7.7	-32.6	6.1	-42.0	-2981.8	-597.1	309.4
162	ok	0.15	0.5	9.75e-03	7.7	7.7	7.7	7.7	-34.0	3.6	-29.4	-3733.6	-752.2	193.3

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 203 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
163	ok	0.15	0.5	9.18e-03	7.7	7.7	7.7	7.7	-34.8	10.1	-38.3	-3743.2	-757.6	129.2
164	ok	0.15	0.8	1.52e-02	7.7	7.7	7.7	7.7	-26.3	-68.6	15.3	-1302.7	-201.4	-10.2
165	ok	0.15	0.8	1.42e-02	7.7	7.7	7.7	7.7	-3.8	-52.4	17.2	-1454.6	-287.7	-17.2
166	ok	0.15	0.5	1.18e-02	7.7	7.7	7.7	7.7	-24.8	-16.0	33.7	-2470.2	-444.9	-238.4
167	ok	0.15	0.4	1.14e-02	7.7	7.7	7.7	7.7	-33.8	-19.3	39.6	-2498.0	-466.1	-294.6
168	ok	0.15	0.2	1.16e-02	7.7	7.7	7.7	7.7	-27.5	-19.7	43.7	-1200.7	-212.4	-365.0
169	ok	0.15	0.3	1.14e-02	7.7	7.7	7.7	7.7	-16.1	-16.9	41.7	1313.9	295.5	-368.4
170	ok	0.15	0.5	1.06e-02	7.7	7.7	7.7	7.7	-10.9	-17.4	38.4	2268.5	481.2	-309.7
171	ok	0.15	0.6	9.51e-03	7.7	7.7	7.7	7.7	-33.8	4.5	-31.6	-3932.1	-788.7	181.2
172	ok	0.15	0.6	8.95e-03	7.7	7.7	7.7	7.7	-35.4	4.5	-34.6	-3940.7	-796.7	124.7
173	ok	0.15	0.8	1.95e-02	7.7	7.7	7.7	7.7	-40.2	-61.8	42.1	-1357.8	-229.9	22.6
174	ok	0.15	0.9	1.79e-02	7.7	7.7	7.7	7.7	-18.3	-61.4	38.2	-1555.5	-320.7	74.0
175	ok	0.15	0.6	1.47e-02	7.7	7.7	7.7	7.7	-18.5	-21.5	41.8	-2614.7	-451.7	-248.8
176	ok	0.15	0.4	1.23e-02	7.7	7.7	7.7	7.7	-31.0	-24.1	43.8	-2648.7	-477.4	-308.2
177	ok	0.15	0.2	1.20e-02	7.7	7.7	7.7	7.7	-27.0	-22.5	44.7	-1273.0	-212.5	-371.9
178	ok	0.15	0.3	1.08e-02	7.7	7.7	7.7	7.7	-18.4	-15.6	41.1	1386.6	325.6	-371.6
179	ok	0.15	0.5	1.04e-02	7.7	7.7	7.7	7.7	-11.3	-17.1	36.1	2409.7	517.0	-318.6
180	ok	0.15	0.6	9.46e-03	7.7	7.7	7.7	7.7	-13.4	-18.2	34.7	2407.5	504.4	-266.8
181	ok	0.15	0.6	8.36e-03	7.7	7.7	7.7	7.7	-27.7	-18.2	16.8	-678.4	-131.4	-20.1
182	ok	0.15	0.9	2.72e-02	7.7	7.7	7.7	7.7	-89.6	-41.9	61.1	-1484.2	-332.6	29.0
183	ok	0.15	0.9	2.86e-02	7.7	7.7	7.7	7.7	-76.9	-74.6	62.6	-1977.0	-429.6	147.9
184	ok	0.15	0.6	1.82e-02	7.7	7.7	7.7	7.7	-63.5	-23.9	53.4	-1936.8	-340.7	-33.6
185	ok	0.15	0.4	1.49e-02	7.7	7.7	7.7	7.7	-35.5	-21.8	49.5	-1333.9	-225.0	-344.2
186	ok	0.15	0.2	1.40e-02	7.7	7.7	7.7	7.7	-42.2	-20.6	46.7	-1337.2	-220.3	-369.6
187	ok	0.15	0.3	1.30e-02	7.7	7.7	7.7	7.7	-21.9	-14.3	39.5	1444.7	345.2	-377.0
188	ok	0.15	0.5	1.15e-02	7.7	7.7	7.7	7.7	-23.7	-14.6	37.1	1447.5	343.7	-360.3
189	ok	0.15	0.6	9.66e-03	7.7	7.7	7.7	7.7	-27.6	-11.8	14.6	-472.1	-72.8	-59.6
190	ok	0.15	0.6	8.05e-03	7.7	7.7	7.7	7.7	-27.9	-11.7	16.3	-783.6	-151.6	-27.6
191	ok	0.15	0.9	3.05e-02	7.7	7.7	7.7	7.7	-115.5	-21.0	62.5	-2835.4	-565.9	122.2
192	ok	0.15	0.9	4.54e-02	7.7	7.7	7.7	7.7	-194.1	-97.4	55.4	-2578.8	-611.9	88.3
193	ok	0.15	0.6	2.28e-02	7.7	7.7	7.7	7.7	-87.3	-23.4	57.1	-2055.3	-390.9	-23.0
194	ok	0.15	0.4	2.08e-02	7.7	7.7	7.7	7.7	-80.2	-17.9	46.9	-1450.0	-239.7	-111.2
195	ok	0.15	0.2	1.80e-02	7.7	7.7	7.7	7.7	-59.6	-13.0	43.2	-1412.3	-224.4	-372.2
196	ok	0.15	0.3	1.51e-02	7.7	7.7	7.7	7.7	-47.8	-11.7	35.8	186.8	86.2	-386.6
197	ok	0.15	0.5	1.22e-02	7.7	7.7	7.7	7.7	-41.8	-8.3	22.7	-364.0	-24.0	-72.2
198	ok	0.15	0.6	9.39e-03	7.7	7.7	7.7	7.7	-34.6	-3.0	-17.3	-4588.5	-929.9	166.2
199	ok	0.15	0.6	7.72e-03	7.7	7.7	7.7	7.7	-45.2	-15.3	-9.1	-4583.9	-976.8	95.2
200	ok	0.15	0.9	5.18e-02	7.7	7.7	7.7	7.7	-160.6	-17.2	80.4	-1094.6	-198.2	126.9
201	ok	0.15	0.9	4.36e-02	7.7	7.7	7.7	7.7	-172.8	-32.2	50.5	-3405.8	-753.1	246.2
202	ok	0.15	0.6	3.59e-02	7.7	7.7	7.7	7.7	-142.7	-10.4	58.1	-701.0	-83.4	-2.3
203	ok	0.15	0.3	2.78e-02	7.7	7.7	7.7	7.7	-114.5	-6.3	40.7	-481.4	-31.5	-57.5
204	ok	0.15	0.2	2.15e-02	7.7	7.7	7.7	7.7	-89.2	-3.8	29.0	-366.4	-9.9	-77.7
205	ok	0.15	0.3	1.66e-02	7.7	7.7	7.7	7.7	-68.0	-2.5	21.1	-331.6	-4.9	-84.6
206	ok	0.15	0.5	1.26e-02	7.7	7.7	7.7	7.7	-50.4	-2.0	15.1	-364.5	-12.2	-89.7
207	ok	0.15	0.7	9.59e-03	7.7	7.7	7.7	7.7	-48.0	-1.3	-15.7	-4784.3	-864.2	84.7
208	ok	0.15	0.7	8.74e-03	7.7	7.7	7.7	7.7	-45.1	-16.4	-18.3	-4793.4	-1003.7	51.0
209	ok	0.15	0.8	6.78e-02	7.7	7.7	7.7	7.7	-323.5	22.2	-8.1	-1302.5	3.3	98.9
210	ok	0.15	0.6	4.59e-02	7.7	7.7	7.7	7.7	-221.8	2.4	7.72e-02	-756.4	-10.6	-10.2
211	ok	0.15	0.3	3.24e-02	7.7	7.7	7.7	7.7	-156.7	0.7	-1.3	-500.1	-6.9	-43.0
212	ok	0.15	0.2	2.32e-02	7.7	7.7	7.7	7.7	-112.3	0.2	-2.2	-372.2	-5.8	-50.9
213	ok	0.15	0.3	1.67e-02	7.7	7.7	7.7	7.7	-80.8	-7.79e-02	-2.7	-333.3	-5.3	-50.7
214	ok	0.15	0.5	1.21e-02	7.7	7.7	7.7	7.7	-52.0	1.0	-2.9	-958.4	4.3	-31.0
215	ok	0.15	0.7	9.43e-03	7.7	7.7	7.7	7.7	-43.5	-0.3	-3.6	-1038.4	4.1	-55.7
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-565.68	-298.06	-89.86	-4793.44	-1003.70	-386.56
		0.15	0.92	0.12	7.70	7.70	7.70	7.70	249.12	53.26	108.95	2922.14	700.60	478.25

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
1	ok	1.48						
4	ok	2.38						
7	ok	0.39						
10	ok	1.02						
13	ok	1.56						
14	ok	1.56						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 204 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
15	ok	1.48						
16	ok	0.76						
17	ok	0.76						
18	ok	0.51						
19	ok	0.51						
20	ok	0.47						
21	ok	0.47						
22	ok	0.49						
23	ok	0.49						
24	ok	0.52						
25	ok	0.52						
26	ok	0.64						
27	ok	0.64						
28	ok	0.39						
29	ok	0.86						
30	ok	0.87						
31	ok	0.47						
32	ok	0.32						
33	ok	0.31						
34	ok	0.36						
35	ok	0.40						
36	ok	0.49						
37	ok	0.35						
38	ok	0.60						
39	ok	0.60						
40	ok	0.38						
41	ok	0.25						
42	ok	0.22						
43	ok	0.26						
44	ok	0.28						
45	ok	0.33						
46	ok	0.33						
47	ok	0.50						
48	ok	0.47						
49	ok	0.33						
50	ok	0.28						
51	ok	0.23						
52	ok	0.22						
53	ok	0.24						
54	ok	0.31						
55	ok	0.31						
56	ok	0.51						
57	ok	0.51						
58	ok	0.37						
59	ok	0.32						
60	ok	0.27						
61	ok	0.25						
62	ok	0.24						
63	ok	0.29						
64	ok	0.29						
65	ok	0.51						
66	ok	0.51						
67	ok	0.43						
68	ok	0.37						
69	ok	0.33						
70	ok	0.29						
71	ok	0.26						
72	ok	0.27						
73	ok	0.27						
74	ok	0.61						
75	ok	0.54						
76	ok	0.49						
77	ok	0.43						
78	ok	0.38						
79	ok	0.33						
80	ok	0.29						
81	ok	0.25						
82	ok	0.27						
83	ok	0.65						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 205 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
84	ok	0.69						
85	ok	0.53						
86	ok	0.48						
87	ok	0.43						
88	ok	0.37						
89	ok	0.33						
90	ok	0.28						
91	ok	0.31						
92	ok	0.79						
93	ok	0.72						
94	ok	0.56						
95	ok	0.52						
96	ok	0.47						
97	ok	0.42						
98	ok	0.37						
99	ok	0.31						
100	ok	0.35						
101	ok	0.88						
102	ok	0.79						
103	ok	0.68						
104	ok	0.60						
105	ok	0.53						
106	ok	0.47						
107	ok	0.42						
108	ok	0.35						
109	ok	0.39						
110	ok	0.90						
111	ok	0.89						
112	ok	0.75						
113	ok	0.66						
114	ok	0.59						
115	ok	0.53						
116	ok	0.46						
117	ok	0.39						
118	ok	0.42						
119	ok	0.90						
120	ok	0.89						
121	ok	0.76						
122	ok	0.70						
123	ok	0.64						
124	ok	0.57						
125	ok	0.51						
126	ok	0.43						
127	ok	0.45						
128	ok	0.90						
129	ok	0.89						
130	ok	0.80						
131	ok	0.74						
132	ok	0.68						
133	ok	0.62						
134	ok	0.55						
135	ok	0.47						
136	ok	0.48						
137	ok	1.04						
138	ok	1.02						
139	ok	0.87						
140	ok	0.80						
141	ok	0.73						
142	ok	0.66						
143	ok	0.59						
144	ok	0.51						
145	ok	0.50						
146	ok	1.04						
147	ok	1.03						
148	ok	0.89						
149	ok	0.84						
150	ok	0.78						
151	ok	0.71						
152	ok	0.64						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 206 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
153	ok	0.55						
154	ok	0.53						
155	ok	1.10						
156	ok	1.03						
157	ok	0.97						
158	ok	0.90						
159	ok	0.84						
160	ok	0.76						
161	ok	0.68						
162	ok	0.59						
163	ok	0.56						
164	ok	1.20						
165	ok	1.17						
166	ok	1.05						
167	ok	0.97						
168	ok	0.89						
169	ok	0.81						
170	ok	0.73						
171	ok	0.63						
172	ok	0.59						
173	ok	1.21						
174	ok	1.23						
175	ok	1.11						
176	ok	1.03						
177	ok	0.93						
178	ok	0.84						
179	ok	0.77						
180	ok	0.68						
181	ok	0.64						
182	ok	1.27						
183	ok	1.32						
184	ok	1.20						
185	ok	1.07						
186	ok	0.98						
187	ok	0.89						
188	ok	0.81						
189	ok	0.77						
190	ok	0.71						
191	ok	1.81						
192	ok	1.82						
193	ok	1.20						
194	ok	1.07						
195	ok	0.98						
196	ok	0.89						
197	ok	0.81						
198	ok	0.89						
199	ok	0.99						
200	ok	1.81						
201	ok	2.38						
202	ok	1.47						
203	ok	1.46						
204	ok	1.42						
205	ok	1.33						
206	ok	1.19						
207	ok	1.01						
208	ok	1.02						
209	ok	1.46						
210	ok	1.47						
211	ok	1.46						
212	ok	1.42						
213	ok	1.33						
214	ok	1.19						
215	ok	1.01						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		2.38						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
2	30.00	5	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok	0.17	0.3	1.27e-04	10.1	10.1	7.7	7.7	152.6	43.6	-9.4	102.0	-73.9	-39.3
3	ok	0.15	0.2	2.28e-02	7.7	7.7	7.7	7.7	-75.5	32.1	69.9	-27.6	-5.2	4.9
5	ok	0.19	0.9	8.03e-02	12.1	12.1	9.2	9.2	798.6	78.3	-30.7	126.6	6.0	12.0
6	ok	0.15	0.4	1.92e-02	7.7	7.7	7.7	7.7	-77.2	33.1	29.3	-31.1	-5.7	1.6
8	ok	0.15	3.93e-02	1.77e-02	7.7	7.7	7.7	7.7	-27.6	-33.2	55.0	-16.0	4.2	1.3
9	ok	0.15	0.1	2.36e-02	7.7	7.7	7.7	7.7	-73.2	28.6	76.2	-23.8	-4.7	5.8
11	ok	0.15	1.0	1.14e-02	7.7	7.7	7.7	7.7	-54.1	-3.1	6.7	-49.3	-1.9	-0.7
12	ok	0.15	0.4	1.88e-02	7.7	7.7	7.7	7.7	-77.3	30.7	22.8	-30.4	-5.6	1.1
220	ok	0.17	0.2	4.45e-02	10.1	10.1	10.1	10.1	-16.6	24.4	92.3	-18.4	-132.2	5.8
221	ok	0.17	0.5	6.59e-02	10.1	10.1	10.1	10.1	110.9	391.0	486.3	101.9	4.0	24.3
222	ok	0.17	0.2	0.3	10.1	10.1	7.7	7.7	-626.3	-230.2	243.5	275.0	111.9	-59.0
223	ok	0.17	0.1	2.46e-02	10.1	10.1	10.1	10.1	32.8	12.2	138.4	10.2	-50.0	4.5
224	ok	0.17	0.1	4.47e-02	10.1	10.1	10.1	10.1	-141.4	78.3	151.2	22.5	-11.8	3.0
225	ok	0.15	9.88e-02	2.65e-02	7.7	7.7	7.7	7.7	-3.8	12.9	124.6	3.0	-47.3	3.6
226	ok	0.15	0.1	3.69e-02	7.7	7.7	7.7	7.7	-98.5	34.3	127.3	11.4	-17.5	7.7
227	ok	0.15	0.1	2.58e-02	7.7	7.7	7.7	7.7	-17.4	8.4	112.0	-2.2	-40.1	4.0
228	ok	0.15	0.1	3.15e-02	7.7	7.7	7.7	7.7	-74.7	22.1	113.3	3.8	-17.8	10.6
229	ok	0.15	9.65e-02	2.39e-02	7.7	7.7	7.7	7.7	-19.3	7.6	102.2	-4.5	-30.6	4.2
230	ok	0.15	8.99e-02	2.76e-02	7.7	7.7	7.7	7.7	-60.4	17.7	103.0	-1.2	-15.5	11.9
231	ok	0.15	0.1	2.12e-02	7.7	7.7	7.7	7.7	-14.8	8.2	93.4	-5.0	-19.8	3.8
232	ok	0.15	8.99e-02	2.48e-02	7.7	7.7	7.7	7.7	-51.7	16.1	95.6	-4.3	-12.2	11.8
233	ok	0.15	9.65e-02	1.87e-02	7.7	7.7	7.7	7.7	-12.4	-2.2	82.8	-5.1	-7.8	3.1
234	ok	0.15	7.22e-02	2.31e-02	7.7	7.7	7.7	7.7	-45.9	10.8	89.8	-7.2	-8.9	9.8
235	ok	0.15	7.21e-02	2.10e-02	7.7	7.7	7.7	7.7	-43.7	6.4	70.8	-15.4	-11.7	5.3
236	ok	0.17	0.1	0.1	10.1	10.1	10.1	10.1	-702.6	58.7	-84.8	20.3	14.7	-34.9
237	ok	0.17	0.4	0.1	10.1	10.1	7.7	7.7	-312.1	-374.2	-201.6	223.7	35.7	-32.3
238	ok	0.17	9.22e-02	5.11e-02	10.1	10.1	10.1	10.1	-229.9	61.1	83.2	38.9	10.0	0.3
239	ok	0.15	0.1	4.04e-02	7.7	7.7	7.7	7.7	-163.0	37.7	86.8	21.6	3.2	6.8
240	ok	0.15	9.05e-02	3.41e-02	7.7	7.7	7.7	7.7	-120.3	27.2	92.2	10.4	-1.3	11.1
241	ok	0.15	7.79e-02	3.01e-02	7.7	7.7	7.7	7.7	-94.3	22.7	93.0	2.3	-3.8	13.4
242	ok	0.15	5.76e-02	2.74e-02	7.7	7.7	7.7	7.7	-77.9	20.6	91.6	-3.9	-4.9	13.7
243	ok	0.15	8.05e-02	2.52e-02	7.7	7.7	7.7	7.7	-66.2	17.9	88.1	-9.6	-5.1	12.0
244	ok	0.15	8.27e-02	2.32e-02	7.7	7.7	7.7	7.7	-58.1	15.2	82.7	-14.7	-4.7	6.3
245	ok	0.15	0.2	6.03e-02	7.7	7.7	7.7	7.7	-233.9	-130.3	-96.2	86.8	35.2	-24.5
246	ok	0.15	0.3	4.80e-02	7.7	7.7	7.7	7.7	-156.8	-166.7	-49.2	160.0	38.1	-17.0
247	ok	0.15	8.41e-02	4.91e-02	7.7	7.7	7.7	7.7	-208.9	-6.9	-11.9	53.2	24.8	-4.4
248	ok	0.15	8.93e-02	3.73e-02	7.7	7.7	7.7	7.7	-166.6	11.5	34.0	32.0	16.2	3.7
249	ok	0.15	8.57e-02	3.33e-02	7.7	7.7	7.7	7.7	-136.6	15.8	65.4	17.2	9.5	9.0
250	ok	0.15	8.67e-02	3.06e-02	7.7	7.7	7.7	7.7	-112.0	18.5	77.6	6.1	4.4	12.1
251	ok	0.15	7.63e-02	2.83e-02	7.7	7.7	7.7	7.7	-93.6	20.5	82.6	-3.0	0.6	13.2
252	ok	0.15	8.47e-02	2.60e-02	7.7	7.7	7.7	7.7	-79.3	21.9	82.8	-11.3	-2.3	12.3
253	ok	0.15	0.1	2.39e-02	7.7	7.7	7.7	7.7	-68.1	23.1	81.0	-19.0	-4.4	6.4
254	ok	0.15	0.3	3.30e-02	7.7	7.7	7.7	7.7	-117.9	-122.4	-39.2	101.1	33.7	-17.2
255	ok	0.15	0.3	2.75e-02	7.7	7.7	7.7	7.7	-80.6	-119.7	-18.5	146.8	36.6	-8.7
256	ok	0.15	0.2	3.12e-02	7.7	7.7	7.7	7.7	-145.9	-66.9	-20.7	65.2	29.2	-7.4
257	ok	0.15	0.1	3.07e-02	7.7	7.7	7.7	7.7	-138.4	-24.8	16.7	41.5	22.2	0.6
258	ok	0.15	8.57e-02	3.07e-02	7.7	7.7	7.7	7.7	-126.1	-3.2	42.4	23.9	15.3	6.1
259	ok	0.15	8.73e-02	2.97e-02	7.7	7.7	7.7	7.7	-116.1	8.0	64.9	9.9	9.1	9.6
260	ok	0.15	9.16e-02	2.80e-02	7.7	7.7	7.7	7.7	-100.5	16.5	72.9	-1.8	3.8	11.3
261	ok	0.15	0.1	2.58e-02	7.7	7.7	7.7	7.7	-86.1	22.8	75.7	-12.6	-0.9	10.9
262	ok	0.15	0.3	2.51e-02	7.7	7.7	7.7	7.7	-77.5	-118.7	-0.3	105.4	31.1	-11.8
263	ok	0.15	0.4	2.28e-02	7.7	7.7	7.7	7.7	-47.5	-98.2	9.2	135.1	33.6	-6.0
264	ok	0.15	0.2	2.47e-02	7.7	7.7	7.7	7.7	-106.0	-89.7	7.6	73.6	28.5	-6.8
265	ok	0.15	0.1	2.80e-02	7.7	7.7	7.7	7.7	-120.5	-56.0	26.7	48.5	23.3	-1.5
266	ok	0.15	9.10e-02	2.93e-02	7.7	7.7	7.7	7.7	-117.0	-21.3	39.6	29.7	17.2	3.4
267	ok	0.15	8.94e-02	2.89e-02	7.7	7.7	7.7	7.7	-113.2	-7.5	58.7	13.7	10.9	6.7
268	ok	0.15	0.1	2.73e-02	7.7	7.7	7.7	7.7	-102.6	11.1	64.9	-0.3	5.1	8.8
269	ok	0.15	0.2	2.51e-02	7.7	7.7	7.7	7.7	-88.9	21.9	68.1	-13.6	-0.4	8.9

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 208 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
270	ok	0.15	0.4	3.39e-02	7.7	7.7	7.7	7.7	-63.1	-115.6	42.3	106.2	31.8	-6.7
271	ok	0.15	0.4	2.41e-02	7.7	7.7	7.7	7.7	-15.5	-98.5	34.6	143.5	32.1	-8.7
272	ok	0.15	0.3	3.31e-02	7.7	7.7	7.7	7.7	-103.8	-98.5	42.4	77.0	27.0	-5.8
273	ok	0.15	0.2	3.12e-02	7.7	7.7	7.7	7.7	-120.6	-63.7	42.4	53.8	22.1	-2.5
274	ok	0.15	9.70e-02	3.02e-02	7.7	7.7	7.7	7.7	-114.9	-34.2	44.5	34.2	16.7	1.3
275	ok	0.15	9.47e-02	2.87e-02	7.7	7.7	7.7	7.7	-114.4	-13.7	55.1	17.0	11.0	4.3
276	ok	0.15	0.1	2.66e-02	7.7	7.7	7.7	7.7	-103.8	6.8	57.9	1.2	5.2	6.3
277	ok	0.15	0.2	2.42e-02	7.7	7.7	7.7	7.7	-90.2	20.7	60.5	-14.0	-0.4	6.7
278	ok	0.15	0.2	2.19e-02	7.7	7.7	7.7	7.7	-76.6	34.1	51.1	-30.0	-5.6	3.9
279	ok	0.15	0.4	7.15e-02	7.7	7.7	7.7	7.7	-94.0	-131.9	66.2	107.8	31.3	-8.2
280	ok	0.15	0.7	4.10e-02	7.7	7.7	7.7	7.7	128.5	2.4	-12.9	174.1	35.0	-10.8
281	ok	0.15	0.2	4.26e-02	7.7	7.7	7.7	7.7	-149.0	-80.1	64.3	79.1	24.4	-6.6
282	ok	0.15	0.2	3.54e-02	7.7	7.7	7.7	7.7	-142.0	-57.0	48.6	57.3	19.6	-2.9
283	ok	0.15	9.59e-02	3.15e-02	7.7	7.7	7.7	7.7	-123.9	-34.3	43.4	37.7	15.1	0.1
284	ok	0.15	0.1	2.86e-02	7.7	7.7	7.7	7.7	-118.1	-16.1	49.7	19.7	10.1	2.5
285	ok	0.15	0.2	2.60e-02	7.7	7.7	7.7	7.7	-105.2	3.9	50.5	2.6	4.8	4.2
286	ok	0.15	0.3	2.33e-02	7.7	7.7	7.7	7.7	-90.9	19.3	52.7	-13.9	-0.7	4.7
287	ok	0.15	0.3	2.09e-02	7.7	7.7	7.7	7.7	-76.9	34.9	43.8	-31.2	-5.8	3.0
288	ok	0.15	0.4	6.83e-02	7.7	7.7	7.7	7.7	-267.7	106.8	139.9	134.2	23.3	30.1
289	ok	0.15	0.2	0.2	7.7	7.7	7.7	7.7	-861.4	-369.6	-256.1	-24.2	4.6	-85.8
290	ok	0.15	0.2	4.48e-02	7.7	7.7	7.7	7.7	-202.3	-60.7	38.2	80.7	21.1	-4.0
291	ok	0.15	0.1	3.61e-02	7.7	7.7	7.7	7.7	-163.4	-47.4	37.9	59.5	17.3	-2.2
292	ok	0.15	8.57e-02	3.13e-02	7.7	7.7	7.7	7.7	-138.3	-34.5	32.5	40.1	13.5	-0.3
293	ok	0.15	0.1	2.79e-02	7.7	7.7	7.7	7.7	-120.7	-17.9	40.8	21.7	9.1	1.3
294	ok	0.15	0.2	2.50e-02	7.7	7.7	7.7	7.7	-105.3	-1.6	43.3	4.1	4.2	2.5
295	ok	0.15	0.3	2.23e-02	7.7	7.7	7.7	7.7	-91.1	17.6	44.5	-13.6	-0.9	3.2
296	ok	0.15	0.3	1.99e-02	7.7	7.7	7.7	7.7	-77.1	34.5	36.5	-31.4	-5.8	2.2
297	ok	0.15	0.5	9.09e-02	7.7	7.7	7.7	7.7	-330.4	-186.6	-166.1	62.2	16.5	-22.2
298	ok	0.15	0.9	5.06e-02	7.7	7.7	7.7	7.7	47.6	-175.5	-10.0	243.7	41.6	24.7
299	ok	0.15	0.3	4.17e-02	7.7	7.7	7.7	7.7	-186.5	-64.4	-8.7	81.6	20.9	-2.84e-02
300	ok	0.15	0.1	3.30e-02	7.7	7.7	7.7	7.7	-155.8	-55.6	13.4	60.6	16.3	-1.1
301	ok	0.15	8.12e-02	2.91e-02	7.7	7.7	7.7	7.7	-134.9	-39.4	24.3	41.4	12.4	-0.5
302	ok	0.15	0.1	2.64e-02	7.7	7.7	7.7	7.7	-118.7	-22.0	30.8	23.0	8.2	0.5
303	ok	0.15	0.2	2.38e-02	7.7	7.7	7.7	7.7	-104.2	-4.6	34.9	5.1	3.7	1.4
304	ok	0.15	0.4	2.13e-02	7.7	7.7	7.7	7.7	-90.7	15.3	36.5	-13.0	-1.1	2.0
305	ok	0.15	0.6	3.66e-02	7.7	7.7	7.7	7.7	-90.3	-139.1	-33.5	106.0	25.6	-2.2
306	ok	0.15	0.7	2.91e-02	7.7	7.7	7.7	7.7	-55.3	-134.3	-18.4	140.2	26.2	4.5
307	ok	0.15	0.4	3.20e-02	7.7	7.7	7.7	7.7	-126.1	-105.2	-16.7	81.6	20.1	-1.6
308	ok	0.15	0.2	2.75e-02	7.7	7.7	7.7	7.7	-125.0	-70.0	-4.9	61.5	15.7	-1.0
309	ok	0.15	8.66e-02	2.62e-02	7.7	7.7	7.7	7.7	-116.3	-48.0	16.9	42.2	11.6	-0.6
310	ok	0.15	0.2	2.47e-02	7.7	7.7	7.7	7.7	-113.1	-27.5	23.9	23.8	7.5	-1.22e-02
311	ok	0.15	0.3	2.26e-02	7.7	7.7	7.7	7.7	-101.7	-8.2	28.1	5.9	3.3	0.6
312	ok	0.15	0.4	2.04e-02	7.7	7.7	7.7	7.7	-89.7	12.4	29.6	-12.5	-1.2	1.1
313	ok	0.15	0.7	2.99e-02	7.7	7.7	7.7	7.7	-59.8	-137.6	1.6	102.8	20.1	-0.6
314	ok	0.15	0.7	2.64e-02	7.7	7.7	7.7	7.7	-34.9	-119.0	8.1	118.7	21.8	2.1
315	ok	0.15	0.4	2.56e-02	7.7	7.7	7.7	7.7	-95.3	-118.2	0.3	81.7	17.8	-1.3
316	ok	0.15	0.2	2.44e-02	7.7	7.7	7.7	7.7	-103.9	-83.2	8.2	61.5	14.5	-1.1
317	ok	0.15	8.59e-02	2.46e-02	7.7	7.7	7.7	7.7	-106.9	-54.2	11.8	42.7	10.8	-0.8
318	ok	0.15	0.2	2.36e-02	7.7	7.7	7.7	7.7	-108.5	-31.5	21.3	24.4	6.9	-0.4
319	ok	0.15	0.3	2.18e-02	7.7	7.7	7.7	7.7	-99.5	-11.0	23.4	6.5	2.9	6.77e-02
320	ok	0.15	0.5	1.99e-02	7.7	7.7	7.7	7.7	-88.8	9.7	24.0	-11.9	-1.3	0.5
321	ok	0.15	0.5	1.85e-02	7.7	7.7	7.7	7.7	-77.3	27.8	17.1	-29.7	-5.5	0.6
322	ok	0.15	0.7	3.45e-02	7.7	7.7	7.7	7.7	-71.5	-142.5	48.2	100.7	19.4	1.6
323	ok	0.15	0.8	2.86e-02	7.7	7.7	7.7	7.7	-38.7	-120.6	41.3	117.3	21.5	-0.4
324	ok	0.15	0.5	3.13e-02	7.7	7.7	7.7	7.7	-92.1	-112.1	41.4	80.2	17.0	-0.1
325	ok	0.15	0.3	2.74e-02	7.7	7.7	7.7	7.7	-111.6	-82.2	23.7	61.2	13.5	-0.9
326	ok	0.15	9.78e-02	2.52e-02	7.7	7.7	7.7	7.7	-113.1	-54.5	16.7	42.8	9.9	-0.9
327	ok	0.15	0.2	2.34e-02	7.7	7.7	7.7	7.7	-108.0	-31.6	20.5	24.7	6.2	-0.6
328	ok	0.15	0.4	2.14e-02	7.7	7.7	7.7	7.7	-99.9	-16.1	15.6	3.3	1.6	0.6
329	ok	0.15	0.5	1.97e-02	7.7	7.7	7.7	7.7	-62.3	-13.8	42.0	-694.4	-142.8	39.9
330	ok	0.15	0.5	1.83e-02	7.7	7.7	7.7	7.7	-77.4	24.7	12.1	-29.1	-5.4	0.3
331	ok	0.17	0.7	4.75e-02	7.7	7.7	9.2	9.2	-107.7	-133.4	85.1	99.8	23.1	1.9
332	ok	0.17	0.8	3.81e-02	7.7	7.7	9.2	9.2	-71.2	-138.4	67.9	133.9	25.3	-0.2
333	ok	0.15	0.5	4.05e-02	7.7	7.7	7.7	7.7	-133.6	-88.4	59.3	78.5	16.6	-0.6
334	ok	0.15	0.3	3.10e-02	7.7	7.7	7.7	7.7	-130.3	-66.8	29.2	60.7	12.3	-0.9
335	ok	0.15	0.1	2.65e-02	7.7	7.7	7.7	7.7	-120.6	-47.0	16.9	42.8	8.9	-0.8
336	ok	0.15	0.2	2.36e-02	7.7	7.7	7.7	7.7	-110.6	-28.7	17.7	25.0	5.5	-0.6
337	ok	0.15	0.4	2.13e-02	7.7	7.7	7.7	7.7	-61.5	-13.8	37.7	-725.6	-147.5	60.3
338	ok	0.15	0.5	1.96e-02	7.7	7.7	7.7	7.7	-62.3	-14.9	37.5	-744.8	-153.1	39.3

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
339	ok	0.15	0.5	1.81e-02	7.7	7.7	7.7	7.7	-80.5	-29.4	13.8	-60.9	-12.3	0.3
340	ok	0.17	0.6	0.1	9.2	9.2	9.2	9.2	-451.7	-99.9	170.7	50.2	12.2	15.0
341	ok	0.17	0.9	6.92e-02	9.2	9.2	9.2	9.2	-36.7	-226.4	138.0	233.3	28.8	0.2
342	ok	0.15	0.4	4.08e-02	7.7	7.7	7.7	7.7	-179.6	-48.7	22.8	78.8	13.5	-2.2
343	ok	0.15	0.3	3.16e-02	7.7	7.7	7.7	7.7	-147.0	-50.1	15.8	60.5	10.9	-0.7
344	ok	0.15	9.66e-02	2.68e-02	7.7	7.7	7.7	7.7	-126.6	-39.3	9.1	42.8	7.9	-0.4
345	ok	0.15	0.2	2.36e-02	7.7	7.7	7.7	7.7	-112.2	-25.5	5.4	25.0	4.9	-0.3
346	ok	0.15	0.4	2.13e-02	7.7	7.7	7.7	7.7	-72.4	-13.8	42.7	-473.9	-98.0	74.2
347	ok	0.15	0.6	1.95e-02	7.7	7.7	7.7	7.7	-78.5	-23.0	7.8	-33.7	-6.9	1.4
348	ok	0.15	0.6	1.79e-02	7.7	7.7	7.7	7.7	-80.5	-28.9	2.6	-62.4	-12.6	0.3
349	ok	0.17	0.7	5.30e-02	9.2	9.2	9.2	9.2	-82.7	127.5	-224.3	158.0	12.1	-34.8
350	ok	0.17	0.4	0.2	9.2	9.2	9.2	9.2	-974.0	-351.7	230.9	-79.5	10.8	71.6
351	ok	0.15	0.5	3.59e-02	7.7	7.7	7.7	7.7	-164.5	-63.5	-12.2	77.5	13.8	1.7
352	ok	0.15	0.3	2.89e-02	7.7	7.7	7.7	7.7	-139.8	-48.3	-3.6	60.2	10.0	0.6
353	ok	0.15	9.39e-02	2.54e-02	7.7	7.7	7.7	7.7	-123.0	-37.1	-0.8	42.7	7.4	0.3
354	ok	0.15	0.3	2.29e-02	7.7	7.7	7.7	7.7	-72.7	-13.0	36.3	-480.4	-98.9	84.2
355	ok	0.15	0.5	2.10e-02	7.7	7.7	7.7	7.7	-72.0	-14.8	37.7	-500.2	-103.5	74.0
356	ok	0.15	0.6	1.93e-02	7.7	7.7	7.7	7.7	-78.3	-22.8	9.9	-34.8	-7.2	1.5
357	ok	0.15	0.6	1.78e-02	7.7	7.7	7.7	7.7	-80.4	-27.9	4.6	-63.8	-12.9	0.3
358	ok	0.17	0.8	4.31e-02	9.2	9.2	7.7	7.7	-117.9	-54.5	-119.4	142.9	29.3	-0.8
359	ok	0.17	1.0	2.24e-02	9.2	9.2	7.7	7.7	154.9	-62.9	106.5	177.7	29.7	26.7
360	ok	0.15	0.6	2.74e-02	7.7	7.7	7.7	7.7	-100.9	-81.6	-8.5	77.6	15.3	1.9
361	ok	0.15	0.3	2.41e-02	7.7	7.7	7.7	7.7	-113.0	-58.6	0.3	60.1	10.7	1.3
362	ok	0.15	0.1	2.33e-02	7.7	7.7	7.7	7.7	-111.7	-39.1	2.8	42.5	7.5	0.9
363	ok	0.15	0.3	2.20e-02	7.7	7.7	7.7	7.7	-74.3	-17.1	37.9	-505.8	-105.2	83.4
364	ok	0.15	0.5	2.05e-02	7.7	7.7	7.7	7.7	-86.9	-22.6	16.9	-6.2	-2.1	2.2
365	ok	0.15	0.7	1.90e-02	7.7	7.7	7.7	7.7	-77.6	-22.7	12.5	-35.9	-7.6	1.7
366	ok	0.15	0.7	1.80e-02	7.7	7.7	7.7	7.7	-80.3	-26.5	6.9	-65.4	-13.2	0.4
367	ok	0.17	0.9	2.37e-02	9.2	9.2	9.2	9.2	-42.5	-90.3	27.1	98.2	18.7	-1.09e-02
368	ok	0.17	0.9	1.90e-02	9.2	9.2	9.2	9.2	12.8	-75.2	36.7	117.4	19.6	3.2
369	ok	0.15	0.7	2.23e-02	7.7	7.7	7.7	7.7	-79.3	-84.1	25.8	78.7	14.9	1.0
370	ok	0.15	0.3	2.17e-02	7.7	7.7	7.7	7.7	-99.6	-57.8	16.1	60.2	11.4	1.5
371	ok	0.15	0.1	2.20e-02	7.7	7.7	7.7	7.7	-71.2	-26.3	33.8	-119.9	-27.4	89.8
372	ok	0.15	0.3	2.13e-02	7.7	7.7	7.7	7.7	-74.9	-19.9	39.4	-530.5	-111.8	82.6
373	ok	0.15	0.5	2.02e-02	7.7	7.7	7.7	7.7	-85.4	-24.5	21.6	-6.7	-2.7	2.7
374	ok	0.15	0.7	1.89e-02	7.7	7.7	7.7	7.7	-77.1	-22.1	16.0	-37.1	-8.0	2.2
375	ok	0.19	0.7	3.04e-02	12.1	12.1	9.2	9.2	-63.0	-91.7	70.1	99.6	19.0	0.6
376	ok	0.19	0.7	2.49e-02	12.1	12.1	9.2	9.2	-37.7	-79.7	61.9	115.2	21.5	-3.4
377	ok	0.15	0.7	2.91e-02	7.7	7.7	7.7	7.7	-96.0	-69.3	56.5	79.4	15.9	1.7
378	ok	0.15	0.4	2.53e-02	7.7	7.7	7.7	7.7	-76.9	-34.3	48.4	308.4	67.7	76.7
379	ok	0.15	0.1	2.30e-02	7.7	7.7	7.7	7.7	-80.5	-30.8	44.6	285.9	56.2	84.9
380	ok	0.15	0.3	2.15e-02	7.7	7.7	7.7	7.7	-75.6	-21.6	39.8	-551.9	-116.6	82.8
381	ok	0.15	0.6	2.03e-02	7.7	7.7	7.7	7.7	-87.5	-24.0	27.3	-7.2	-3.4	3.4
382	ok	0.15	0.8	1.93e-02	7.7	7.7	7.7	7.7	-78.1	-20.2	23.3	-38.5	-8.6	2.9
383	ok	0.15	0.8	1.83e-02	7.7	7.7	7.7	7.7	-79.7	-20.6	11.1	-69.2	-14.0	0.8
384	ok	0.19	0.7	4.27e-02	12.1	12.1	9.2	9.2	-115.2	-83.4	106.9	103.7	24.6	1.3
385	ok	0.19	0.8	4.09e-02	12.1	12.1	9.2	9.2	-105.5	-108.1	100.6	139.8	27.3	-5.9
386	ok	0.15	0.7	3.92e-02	7.7	7.7	7.7	7.7	-96.6	-22.0	69.9	810.2	158.4	51.8
387	ok	0.15	0.4	2.93e-02	7.7	7.7	7.7	7.7	-95.9	-36.1	62.7	790.6	161.0	67.1
388	ok	0.15	0.1	2.46e-02	7.7	7.7	7.7	7.7	-99.0	-27.3	52.8	295.9	57.2	80.5
389	ok	0.15	0.3	2.35e-02	7.7	7.7	7.7	7.7	-95.9	-19.7	44.3	-144.0	-37.4	83.6
390	ok	0.15	0.6	2.19e-02	7.7	7.7	7.7	7.7	-95.0	-19.5	30.9	-7.7	-4.0	4.4
391	ok	0.15	0.8	1.99e-02	7.7	7.7	7.7	7.7	-81.5	-16.2	23.8	-40.2	-9.2	4.0
392	ok	0.15	0.8	1.81e-02	7.7	7.7	7.7	7.7	-79.5	-16.1	10.5	-72.1	-14.6	1.2
393	ok	0.19	0.8	9.50e-02	12.1	12.1	9.2	9.2	-48.5	-31.1	95.6	161.0	28.9	-8.4
394	ok	0.19	0.9	6.23e-02	12.1	12.1	9.2	9.2	-160.9	-149.6	148.8	213.3	39.6	-21.3
395	ok	0.15	0.7	4.39e-02	7.7	7.7	7.7	7.7	-183.9	-20.8	85.7	-1595.8	-246.9	-87.5
396	ok	0.15	0.4	3.42e-02	7.7	7.7	7.7	7.7	-159.2	-14.5	61.2	-930.7	-145.7	-121.7
397	ok	0.15	0.1	3.05e-02	7.7	7.7	7.7	7.7	-128.4	-18.2	51.2	308.2	56.4	81.8
398	ok	0.15	0.3	2.71e-02	7.7	7.7	7.7	7.7	-117.5	-15.3	39.1	24.7	0.6	5.6
399	ok	0.15	0.6	2.38e-02	7.7	7.7	7.7	7.7	-106.9	-11.2	29.3	-8.1	-4.4	5.6
400	ok	0.15	0.9	2.07e-02	7.7	7.7	7.7	7.7	-87.6	-10.2	19.0	-41.7	-9.9	5.5
401	ok	0.15	0.9	1.78e-02	7.7	7.7	7.7	7.7	-81.6	-12.1	18.5	-76.2	-15.7	1.9
402	ok	0.19	0.6	7.76e-02	12.1	12.1	9.2	9.2	-292.9	143.5	240.2	186.6	21.4	-12.9
403	ok	0.19	0.5	0.2	12.1	12.1	9.2	9.2	-791.8	-537.8	176.2	26.8	11.8	62.2
404	ok	0.15	0.7	5.41e-02	7.7	7.7	7.7	7.7	-229.0	-14.6	73.9	131.9	12.6	-1.7
405	ok	0.15	0.4	4.43e-02	7.7	7.7	7.7	7.7	-190.5	-10.2	60.7	95.1	6.5	5.5
406	ok	0.15	0.1	3.59e-02	7.7	7.7	7.7	7.7	-155.7	-6.4	42.7	59.2	3.0	8.9
407	ok	0.15	0.4	2.96e-02	7.7	7.7	7.7	7.7	-130.9	-3.4	28.3	25.0	0.2	9.6
408	ok	0.15	0.6	2.47e-02	7.7	7.7	7.7	7.7	-115.8	-3.0	21.1	-8.9	-2.9	8.9

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
409	ok	0.15	0.9	2.15e-02	7.7	7.7	7.7	7.7	-101.6	-1.2	16.3	-43.2	-7.6	6.2
410	ok	0.15	0.9	2.41e-02	7.7	7.7	7.7	7.7	-115.7	-15.3	-7.5	-52.9	-12.0	1.9
411	ok	0.19	0.7	0.1	12.1	12.1	9.2	9.2	-495.1	6.4	-115.3	178.2	-5.4	-10.2
412	ok	0.15	0.6	7.39e-02	7.7	7.7	7.7	7.7	-357.0	-18.9	5.3	138.9	-0.8	0.4
413	ok	0.15	0.3	5.25e-02	7.7	7.7	7.7	7.7	-254.1	-1.7	0.5	97.8	-0.2	5.6
414	ok	0.15	0.1	3.89e-02	7.7	7.7	7.7	7.7	-182.4	1.8	-1.4	60.5	-6.72e-02	7.7
415	ok	0.15	0.4	2.99e-02	7.7	7.7	7.7	7.7	-138.4	1.3	-2.4	25.1	-1.95e-02	8.0
416	ok	0.15	0.7	2.35e-02	7.7	7.7	7.7	7.7	-113.7	-0.1	-2.7	-9.9	6.00e-02	7.4
417	ok	0.15	0.9	1.81e-02	7.7	7.7	7.7	7.7	-87.4	-0.4	-1.6	-44.9	4.61e-02	5.1
418	ok	0.15	0.7	1.82e-02	7.7	7.7	7.7	7.7	-80.0	-24.2	9.3	-67.1	-13.6	0.5
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-974.00	-537.76	-256.05	-1595.82	-246.94	-121.71
		0.19	0.97	0.28	12.10	12.10	10.07	10.07	798.63	390.97	486.28	810.20	161.04	89.77

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
2	ok	0.70						
3	ok	0.25						
5	ok	3.50						
6	ok	0.47						
8	ok	0.49						
9	ok	0.19						
11	ok	1.80						
12	ok	0.52						
220	ok	1.42						
221	ok	1.42						
222	ok	1.36						
223	ok	0.57						
224	ok	0.64						
225	ok	0.46						
226	ok	0.46						
227	ok	0.36						
228	ok	0.36						
229	ok	0.40						
230	ok	0.40						
231	ok	0.42						
232	ok	0.42						
233	ok	0.62						
234	ok	0.62						
235	ok	0.49						
236	ok	1.06						
237	ok	1.36						
238	ok	0.64						
239	ok	0.35						
240	ok	0.21						
241	ok	0.17						
242	ok	0.28						
243	ok	0.32						
244	ok	0.27						
245	ok	0.62						
246	ok	0.62						
247	ok	0.48						
248	ok	0.41						
249	ok	0.33						
250	ok	0.28						
251	ok	0.26						
252	ok	0.29						
253	ok	0.14						
254	ok	0.65						
255	ok	0.63						
256	ok	0.52						
257	ok	0.46						
258	ok	0.40						
259	ok	0.35						
260	ok	0.32						
261	ok	0.33						

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
262	ok	0.65						
263	ok	0.63						
264	ok	0.59						
265	ok	0.52						
266	ok	0.47						
267	ok	0.43						
268	ok	0.38						
269	ok	0.38						
270	ok	0.83						
271	ok	0.82						
272	ok	0.62						
273	ok	0.58						
274	ok	0.54						
275	ok	0.49						
276	ok	0.45						
277	ok	0.44						
278	ok	0.31						
279	ok	0.83						
280	ok	0.82						
281	ok	0.68						
282	ok	0.64						
283	ok	0.60						
284	ok	0.56						
285	ok	0.51						
286	ok	0.49						
287	ok	0.36						
288	ok	0.89						
289	ok	0.87						
290	ok	0.73						
291	ok	0.71						
292	ok	0.67						
293	ok	0.62						
294	ok	0.57						
295	ok	0.54						
296	ok	0.42						
297	ok	0.95						
298	ok	0.92						
299	ok	0.81						
300	ok	0.77						
301	ok	0.73						
302	ok	0.68						
303	ok	0.63						
304	ok	0.59						
305	ok	0.95						
306	ok	0.92						
307	ok	0.89						
308	ok	0.84						
309	ok	0.80						
310	ok	0.74						
311	ok	0.68						
312	ok	0.64						
313	ok	1.00						
314	ok	0.97						
315	ok	0.95						
316	ok	0.91						
317	ok	0.86						
318	ok	0.80						
319	ok	0.74						
320	ok	0.69						
321	ok	0.57						
322	ok	1.05						
323	ok	1.02						
324	ok	1.02						
325	ok	0.96						
326	ok	0.92						
327	ok	0.86						
328	ok	0.79						
329	ok	0.74						
330	ok	0.62						
331	ok	1.30						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 212 di 378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
332	ok	1.30						
333	ok	1.03						
334	ok	1.02						
335	ok	0.98						
336	ok	0.92						
337	ok	0.85						
338	ok	0.79						
339	ok	0.66						
340	ok	1.30						
341	ok	1.30						
342	ok	1.13						
343	ok	1.08						
344	ok	1.03						
345	ok	0.98						
346	ok	0.90						
347	ok	0.83						
348	ok	0.71						
349	ok	1.42						
350	ok	1.20						
351	ok	1.15						
352	ok	1.15						
353	ok	1.10						
354	ok	1.04						
355	ok	0.96						
356	ok	0.88						
357	ok	0.75						
358	ok	1.51						
359	ok	1.50						
360	ok	1.25						
361	ok	1.21						
362	ok	1.16						
363	ok	1.09						
364	ok	1.01						
365	ok	0.93						
366	ok	0.79						
367	ok	1.51						
368	ok	1.50						
369	ok	1.38						
370	ok	1.30						
371	ok	1.22						
372	ok	1.15						
373	ok	1.07						
374	ok	0.98						
375	ok	1.48						
376	ok	1.40						
377	ok	1.46						
378	ok	1.36						
379	ok	1.26						
380	ok	1.19						
381	ok	1.12						
382	ok	1.04						
383	ok	0.89						
384	ok	1.88						
385	ok	1.85						
386	ok	1.53						
387	ok	1.40						
388	ok	1.32						
389	ok	1.24						
390	ok	1.17						
391	ok	1.17						
392	ok	1.00						
393	ok	1.88						
394	ok	1.85						
395	ok	1.53						
396	ok	1.40						
397	ok	1.32						
398	ok	1.24						
399	ok	1.17						
400	ok	1.43						
401	ok	1.46						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 213 di 378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
402	ok	1.84						
403	ok	3.50						
404	ok	1.86						
405	ok	1.82						
406	ok	1.82						
407	ok	1.73						
408	ok	1.56						
409	ok	1.43						
410	ok	1.80						
411	ok	1.80						
412	ok	1.86						
413	ok	1.82						
414	ok	1.82						
415	ok	1.73						
416	ok	1.56						
417	ok	1.32						
418	ok	0.84						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		3.50						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
4	cm 30.00	5	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.15	0.4	5.05e-03	7.7	7.7	7.7	7.7	167.0	41.4	-52.0	-1016.4	310.3	-144.7
2	ok	0.15	0.2	3.07e-02	7.7	7.7	7.7	7.7	-24.6	-109.0	46.5	-1620.8	95.7	383.5
7	ok	0.15	5.47e-02	3.17e-03	7.7	7.7	7.7	7.7	4.7	-5.3	13.9	-17.1	143.1	119.8
8	ok	0.15	0.2	6.09e-03	7.7	7.7	7.7	7.7	25.1	196.4	-19.1	244.9	-224.8	-31.4
13	ok	0.15	0.2	7.37e-03	7.7	7.7	7.7	7.7	279.0	19.9	-36.6	-581.6	213.5	32.8
16	ok	0.15	0.2	1.63e-02	7.7	7.7	7.7	7.7	150.3	14.7	-31.6	-5.6	756.2	40.7
18	ok	0.15	0.2	1.64e-02	7.7	7.7	7.7	7.7	74.3	8.5	-31.7	98.6	762.8	-4.0
20	ok	0.15	0.2	1.35e-02	7.7	7.7	7.7	7.7	-59.2	11.2	17.2	160.3	648.0	270.8
22	ok	0.15	0.2	1.03e-02	7.7	7.7	7.7	7.7	-58.8	10.2	18.7	160.2	675.3	237.7
24	ok	0.15	0.2	7.61e-03	7.7	7.7	7.7	7.7	-40.6	11.7	19.4	154.6	679.4	172.5
26	ok	0.15	0.1	4.47e-03	7.7	7.7	7.7	7.7	-17.3	13.6	19.0	104.2	542.5	120.1
220	ok	0.15	0.2	2.17e-02	7.7	7.7	7.7	7.7	77.2	-64.2	-4.4	397.3	670.7	-139.5
223	ok	0.15	0.2	2.09e-02	7.7	7.7	7.7	7.7	18.6	-56.6	-62.5	-43.7	426.3	-0.3
225	ok	0.15	0.2	1.96e-02	7.7	7.7	7.7	7.7	-29.4	-1.8	-81.3	9.1	100.8	-267.0
227	ok	0.15	0.2	1.76e-02	7.7	7.7	7.7	7.7	-30.4	5.7	-76.6	53.8	295.9	-266.7
229	ok	0.15	0.2	1.52e-02	7.7	7.7	7.7	7.7	-22.8	9.0	-71.3	57.7	335.3	-257.9
231	ok	0.15	0.2	1.26e-02	7.7	7.7	7.7	7.7	-13.1	7.9	-68.7	59.5	409.7	-233.0
233	ok	0.15	0.2	1.00e-02	7.7	7.7	7.7	7.7	17.3	55.7	51.5	-103.4	-27.9	43.6
420	ok	0.15	8.55e-02	6.60e-03	7.7	7.7	7.7	7.7	-16.1	-5.9	23.9	-304.8	4.9	324.4
422	ok	0.15	0.1	8.57e-03	7.7	7.7	7.7	7.7	-25.9	4.85e-02	-21.7	-740.2	-165.8	145.9
424	ok	0.15	0.1	9.99e-03	7.7	7.7	7.7	7.7	-29.5	10.9	-12.8	-856.4	-200.3	46.8
426	ok	0.15	0.1	1.08e-02	7.7	7.7	7.7	7.7	-28.6	24.9	-15.7	-804.9	-185.6	-68.6
428	ok	0.15	0.1	1.08e-02	7.7	7.7	7.7	7.7	-23.9	44.5	-14.6	-597.5	-131.8	-149.9
430	ok	0.15	0.1	1.00e-02	7.7	7.7	7.7	7.7	-14.0	72.6	-13.0	-255.2	-43.6	-189.9
432	ok	0.15	0.2	8.15e-03	7.7	7.7	7.7	7.7	8.3	116.8	-22.6	171.4	105.3	-145.3
581	ok	0.15	0.3	2.94e-02	7.7	7.7	7.7	7.7	-3.3	-18.2	-55.7	-659.0	48.1	-257.9
582	ok	0.15	0.2	4.66e-02	7.7	7.7	7.7	7.7	-30.8	-175.3	98.5	-1256.2	-90.7	-349.6
583	ok	0.15	0.2	2.02e-02	7.7	7.7	7.7	7.7	-123.7	36.2	-6.7	-141.8	31.2	283.1
584	ok	0.15	0.2	1.55e-02	7.7	7.7	7.7	7.7	-76.1	24.6	11.2	102.4	232.6	332.0
585	ok	0.15	0.1	1.28e-02	7.7	7.7	7.7	7.7	-60.6	13.7	20.4	188.0	454.5	266.0
586	ok	0.15	0.1	1.10e-02	7.7	7.7	7.7	7.7	-60.4	12.8	24.4	182.7	486.3	215.0
587	ok	0.15	0.1	9.22e-03	7.7	7.7	7.7	7.7	-46.6	15.0	26.4	152.5	452.9	163.1
588	ok	0.15	0.1	7.30e-03	7.7	7.7	7.7	7.7	-32.2	16.0	25.5	29.0	286.9	181.9
589	ok	0.15	0.3	3.83e-02	7.7	7.7	7.7	7.7	-186.8	32.5	42.7	-795.1	-468.6	51.7
590	ok	0.15	0.2	7.78e-02	7.7	7.7	7.7	7.7	-128.6	-362.1	59.4	-1691.7	48.2	-255.8
591	ok	0.15	0.2	2.64e-02	7.7	7.7	7.7	7.7	-157.7	37.0	32.9	-416.3	-357.4	150.5

MANDATARIA MANDANTE PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 214 di 378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
592	ok	0.15	0.2	1.89e-02	7.7	7.7	7.7	7.7	-88.9	31.3	25.7	48.9	-130.6	247.8
593	ok	0.15	0.2	1.47e-02	7.7	7.7	7.7	7.7	-65.6	21.4	23.9	146.6	130.2	275.6
594	ok	0.15	0.1	1.21e-02	7.7	7.7	7.7	7.7	-49.8	18.7	29.3	176.7	190.3	238.4
595	ok	0.15	0.1	1.03e-02	7.7	7.7	7.7	7.7	-50.8	16.4	31.9	95.9	149.7	233.7
596	ok	0.15	9.75e-02	8.86e-03	7.7	7.7	7.7	7.7	-22.5	16.7	27.1	-182.8	31.7	295.3
597	ok	0.15	0.2	3.86e-02	7.7	7.7	7.7	7.7	-173.8	19.3	69.3	-889.6	-485.2	72.4
598	ok	0.15	0.2	8.54e-02	7.7	7.7	7.7	7.7	-142.1	-320.0	-19.3	-1753.5	-68.2	113.8
599	ok	0.15	0.2	2.79e-02	7.7	7.7	7.7	7.7	-158.4	31.8	53.1	-546.5	-445.9	123.1
600	ok	0.15	0.2	2.04e-02	7.7	7.7	7.7	7.7	-107.6	22.4	52.2	-118.5	-317.7	165.2
601	ok	0.15	0.2	1.58e-02	7.7	7.7	7.7	7.7	-65.6	23.6	38.4	76.0	-212.6	208.7
602	ok	0.15	0.1	1.36e-02	7.7	7.7	7.7	7.7	-64.3	18.8	38.4	61.2	-171.2	222.9
603	ok	0.15	0.1	1.18e-02	7.7	7.7	7.7	7.7	-52.9	19.4	34.5	-24.0	-91.5	259.3
604	ok	0.15	9.80e-02	1.02e-02	7.7	7.7	7.7	7.7	-27.2	28.4	-29.1	-390.0	-197.7	71.0
605	ok	0.15	0.2	3.23e-02	7.7	7.7	7.7	7.7	-106.1	-114.1	25.5	-890.9	-323.0	141.4
606	ok	0.15	0.2	5.24e-02	7.7	7.7	7.7	7.7	-102.6	-238.7	-42.0	-1649.5	-437.4	154.2
607	ok	0.15	0.2	2.65e-02	7.7	7.7	7.7	7.7	-104.7	18.7	70.3	-320.7	-385.3	123.4
608	ok	0.15	0.2	2.07e-02	7.7	7.7	7.7	7.7	-103.0	20.5	61.0	-163.2	-345.4	145.5
609	ok	0.15	0.2	1.61e-02	7.7	7.7	7.7	7.7	-64.0	22.8	44.3	39.1	-253.2	184.2
610	ok	0.15	0.1	1.40e-02	7.7	7.7	7.7	7.7	-49.3	22.6	39.8	14.3	-214.8	216.4
611	ok	0.15	0.1	1.25e-02	7.7	7.7	7.7	7.7	-30.9	37.1	-40.0	-154.8	-218.3	11.6
612	ok	0.15	0.1	1.07e-02	7.7	7.7	7.7	7.7	-33.9	36.7	-31.0	-386.7	-215.5	0.3
613	ok	0.15	0.2	2.36e-02	7.7	7.7	7.7	7.7	-48.0	-103.8	12.5	-757.7	-335.9	174.9
614	ok	0.15	0.2	2.79e-02	7.7	7.7	7.7	7.7	-45.7	-110.9	-34.4	-1381.7	-495.4	193.1
615	ok	0.15	0.2	2.23e-02	7.7	7.7	7.7	7.7	-63.5	-7.7	77.9	-445.9	-254.0	213.5
616	ok	0.15	0.2	1.92e-02	7.7	7.7	7.7	7.7	-80.3	11.1	70.3	-150.0	-296.8	142.6
617	ok	0.15	0.2	1.59e-02	7.7	7.7	7.7	7.7	-68.5	14.9	58.2	-17.7	-246.1	151.5
618	ok	0.15	0.2	1.32e-02	7.7	7.7	7.7	7.7	-55.8	17.2	50.1	-6.0	-210.1	178.9
619	ok	0.15	0.1	1.24e-02	7.7	7.7	7.7	7.7	-31.7	38.4	-41.8	-144.4	-171.9	-13.6
620	ok	0.15	0.1	1.17e-02	7.7	7.7	7.7	7.7	-28.7	48.2	-33.9	-313.3	-159.0	-49.4
621	ok	0.15	0.2	1.92e-02	7.7	7.7	7.7	7.7	-10.3	-85.2	-25.0	-592.4	-260.0	108.4
622	ok	0.15	0.2	1.95e-02	7.7	7.7	7.7	7.7	-6.7	-77.2	-37.2	-1038.3	-349.9	132.2
623	ok	0.15	0.2	1.78e-02	7.7	7.7	7.7	7.7	-55.4	-7.0	75.3	-280.5	-166.0	244.2
624	ok	0.15	0.2	1.68e-02	7.7	7.7	7.7	7.7	-59.0	3.2	69.6	-75.5	-146.0	147.9
625	ok	0.15	0.2	1.49e-02	7.7	7.7	7.7	7.7	-44.4	10.9	56.6	-9.3	-134.6	147.1
626	ok	0.15	0.2	1.39e-02	7.7	7.7	7.7	7.7	-45.5	13.7	54.6	-22.0	-130.9	166.3
627	ok	0.15	0.2	1.30e-02	7.7	7.7	7.7	7.7	-12.4	38.2	-53.8	-91.2	-46.3	-45.6
628	ok	0.15	0.2	1.18e-02	7.7	7.7	7.7	7.7	-11.2	62.3	-44.1	-182.5	-41.4	-121.1
629	ok	0.15	0.2	2.43e-02	7.7	7.7	7.7	7.7	-6.5	-86.8	-58.6	-536.3	-215.7	-27.8
630	ok	0.15	0.1	1.78e-02	7.7	7.7	7.7	7.7	32.3	-73.6	-29.5	-1009.2	-213.5	72.2
631	ok	0.15	0.2	1.66e-02	7.7	7.7	7.7	7.7	-19.3	-5.4	-85.8	-109.3	-304.7	-222.7
632	ok	0.15	0.2	1.64e-02	7.7	7.7	7.7	7.7	-22.8	-1.5	-81.6	-25.4	-45.0	-230.0
633	ok	0.15	0.2	1.52e-02	7.7	7.7	7.7	7.7	-26.2	3.0	-80.9	46.8	189.7	-225.4
634	ok	0.15	0.2	1.39e-02	7.7	7.7	7.7	7.7	-16.3	8.6	-76.4	59.2	242.0	-216.9
635	ok	0.15	0.2	1.30e-02	7.7	7.7	7.7	7.7	-8.9	9.5	-73.3	70.5	293.8	-214.5
636	ok	0.15	0.2	1.09e-02	7.7	7.7	7.7	7.7	11.7	73.3	-55.6	-114.7	33.0	-143.4
637	ok	0.15	0.3	0.0	7.7	7.7	7.7	7.7	262.8	20.7	38.8	-784.6	0.6	93.8
641	ok	0.15	6.65e-02	3.68e-03	7.7	7.7	7.7	7.7	4.9	-6.7	-18.9	3.3	149.6	-126.3
649	ok	0.15	0.2	7.11e-03	7.7	7.7	7.7	7.7	188.1	37.3	39.5	-106.3	908.3	-89.7
652	ok	0.15	0.2	1.68e-02	7.7	7.7	7.7	7.7	85.1	15.6	23.5	123.2	971.1	-28.6
654	ok	0.15	0.2	1.64e-02	7.7	7.7	7.7	7.7	-77.6	8.6	-37.4	124.0	504.8	-316.9
656	ok	0.15	0.2	1.51e-02	7.7	7.7	7.7	7.7	-66.0	10.6	-32.7	155.0	637.8	-270.0
658	ok	0.15	0.2	1.23e-02	7.7	7.7	7.7	7.7	-63.6	9.5	-32.8	161.3	694.8	-250.9
660	ok	0.15	0.2	9.14e-03	7.7	7.7	7.7	7.7	-42.8	11.6	-30.6	160.4	718.4	-199.0
662	ok	0.15	0.1	5.54e-03	7.7	7.7	7.7	7.7	-18.1	14.1	-27.0	110.2	579.0	-156.3
849	ok	0.15	0.2	8.83e-03	7.7	7.7	7.7	7.7	9.0	115.4	27.9	192.4	108.6	140.6
851	ok	0.15	0.2	1.04e-02	7.7	7.7	7.7	7.7	-13.7	67.0	17.1	-228.1	-36.2	185.8
853	ok	0.15	0.1	1.12e-02	7.7	7.7	7.7	7.7	-23.6	36.3	16.9	-567.9	-122.9	147.0
855	ok	0.15	0.1	1.12e-02	7.7	7.7	7.7	7.7	-28.4	15.8	16.0	-775.4	-176.2	67.2
857	ok	0.15	0.1	1.04e-02	7.7	7.7	7.7	7.7	-28.9	2.4	24.1	-820.5	-188.2	-41.2
859	ok	0.15	0.1	9.22e-03	7.7	7.7	7.7	7.7	-24.4	-11.8	-38.4	-514.3	-77.1	-349.2
861	ok	0.15	9.50e-02	7.25e-03	7.7	7.7	7.7	7.7	-15.4	-11.0	-30.0	-273.7	18.9	-327.1
1010	ok	0.15	0.2	1.97e-02	7.7	7.7	7.7	7.7	1.8	-66.2	25.0	-443.6	-151.0	53.0
1011	ok	0.15	0.1	1.85e-02	7.7	7.7	7.7	7.7	90.8	-73.5	-20.3	-326.3	-172.4	-341.7
1012	ok	0.15	0.2	1.94e-02	7.7	7.7	7.7	7.7	-18.9	-13.3	100.0	-94.9	-267.5	220.8
1013	ok	0.15	0.2	1.89e-02	7.7	7.7	7.7	7.7	-27.6	-6.8	99.0	-29.0	-148.1	231.1
1014	ok	0.15	0.2	1.77e-02	7.7	7.7	7.7	7.7	-20.9	4.5	93.9	35.4	170.6	227.6
1015	ok	0.15	0.2	1.59e-02	7.7	7.7	7.7	7.7	-15.3	13.2	88.2	54.2	233.4	216.4
1016	ok	0.15	0.2	1.38e-02	7.7	7.7	7.7	7.7	-7.1	21.2	83.4	64.0	279.5	218.4
1017	ok	0.15	0.2	1.11e-02	7.7	7.7	7.7	7.7	13.5	72.3	65.1	-108.1	32.3	142.3
1018	ok	0.15	0.2	1.78e-02	7.7	7.7	7.7	7.7	-30.9	-9.0	-69.4	-408.8	-128.7	-343.9

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
1019	ok	0.15	0.2	1.56e-02	7.7	7.7	7.7	7.7	-9.1	-14.7	84.3	-108.6	-25.7	325.0
1020	ok	0.15	0.2	1.72e-02	7.7	7.7	7.7	7.7	-40.7	-4.9	-72.1	-200.4	-120.9	-246.2
1021	ok	0.15	0.2	1.67e-02	7.7	7.7	7.7	7.7	-45.6	-0.6	-70.0	-57.2	-115.6	-171.0
1022	ok	0.15	0.2	1.62e-02	7.7	7.7	7.7	7.7	-36.1	3.5	-61.4	-15.4	-117.2	-168.7
1023	ok	0.15	0.2	1.54e-02	7.7	7.7	7.7	7.7	-10.7	10.5	87.9	11.2	46.4	196.7
1024	ok	0.15	0.2	1.39e-02	7.7	7.7	7.7	7.7	-12.2	19.0	88.2	-42.8	51.2	207.3
1025	ok	0.15	0.2	1.21e-02	7.7	7.7	7.7	7.7	-8.4	58.7	51.6	-169.4	-37.0	117.7
1026	ok	0.15	0.2	1.92e-02	7.7	7.7	7.7	7.7	-51.3	-11.9	-84.7	-568.9	-196.8	-295.0
1027	ok	0.15	0.2	1.69e-02	7.7	7.7	7.7	7.7	-37.7	-6.1	-81.4	-611.3	-146.5	-377.4
1028	ok	0.15	0.2	1.93e-02	7.7	7.7	7.7	7.7	-60.9	-1.0	-82.9	-339.7	-238.2	-211.2
1029	ok	0.15	0.2	1.77e-02	7.7	7.7	7.7	7.7	-60.9	4.2	-74.3	-117.3	-230.6	-160.2
1030	ok	0.15	0.2	1.57e-02	7.7	7.7	7.7	7.7	-55.0	5.8	-66.0	-22.5	-203.9	-163.4
1031	ok	0.15	0.2	1.45e-02	7.7	7.7	7.7	7.7	-36.4	8.8	-54.9	-21.9	-189.3	-198.9
1032	ok	0.15	0.2	1.35e-02	7.7	7.7	7.7	7.7	-12.1	16.5	84.3	-126.7	-78.8	207.1
1033	ok	0.15	0.2	1.19e-02	7.7	7.7	7.7	7.7	-18.9	43.7	46.5	-271.7	-122.3	97.0
1034	ok	0.15	0.2	2.59e-02	7.7	7.7	7.7	7.7	-94.4	-6.1	-100.7	-754.7	-295.5	-212.0
1035	ok	0.15	0.2	2.45e-02	7.7	7.7	7.7	7.7	-50.7	-12.9	-93.2	-852.2	-202.4	-371.7
1036	ok	0.15	0.2	2.31e-02	7.7	7.7	7.7	7.7	-92.8	9.4	-87.1	-436.1	-322.1	-154.3
1037	ok	0.15	0.2	1.94e-02	7.7	7.7	7.7	7.7	-80.2	10.9	-71.8	-133.0	-269.4	-151.1
1038	ok	0.15	0.2	1.64e-02	7.7	7.7	7.7	7.7	-52.3	12.4	-55.5	30.5	-205.6	-185.4
1039	ok	0.15	0.2	1.40e-02	7.7	7.7	7.7	7.7	-38.7	8.7	-53.5	-2.0	-201.2	-205.4
1040	ok	0.15	0.2	1.25e-02	7.7	7.7	7.7	7.7	-46.1	10.2	-50.2	-86.4	-139.8	-234.6
1041	ok	0.15	0.1	1.17e-02	7.7	7.7	7.7	7.7	-15.2	15.4	71.1	-281.2	-142.6	239.1
1042	ok	0.15	0.2	3.30e-02	7.7	7.7	7.7	7.7	-158.1	11.4	-99.7	-1090.6	-432.8	-105.3
1043	ok	0.15	0.2	3.45e-02	7.7	7.7	7.7	7.7	-113.7	-36.7	-107.0	-1359.7	-308.3	-316.8
1044	ok	0.15	0.2	2.46e-02	7.7	7.7	7.7	7.7	-125.2	22.0	-68.8	-447.6	-349.2	-127.9
1045	ok	0.15	0.2	1.94e-02	7.7	7.7	7.7	7.7	-85.0	11.9	-67.5	-96.2	-247.5	-157.9
1046	ok	0.15	0.2	1.63e-02	7.7	7.7	7.7	7.7	-54.6	12.8	-52.7	64.6	-171.3	-196.7
1047	ok	0.15	0.2	1.39e-02	7.7	7.7	7.7	7.7	-46.0	12.4	-49.5	116.6	11.6	-220.8
1048	ok	0.15	0.1	1.26e-02	7.7	7.7	7.7	7.7	-46.8	7.4	-49.3	-45.2	-116.8	-246.0
1049	ok	0.15	0.1	1.13e-02	7.7	7.7	7.7	7.7	-25.4	7.8	-40.3	-262.4	-67.1	-288.3
1050	ok	0.15	0.3	3.37e-02	7.7	7.7	7.7	7.7	-191.2	35.2	-56.5	-1223.8	-509.7	-24.3
1051	ok	0.15	0.2	4.03e-02	7.7	7.7	7.7	7.7	-198.4	-61.3	-97.5	-1831.6	-438.7	-179.5
1052	ok	0.15	0.2	2.39e-02	7.7	7.7	7.7	7.7	-129.8	25.5	-55.8	-345.2	-290.8	-144.1
1053	ok	0.15	0.2	1.85e-02	7.7	7.7	7.7	7.7	-76.4	20.2	-47.5	48.0	-101.6	-226.3
1054	ok	0.15	0.2	1.56e-02	7.7	7.7	7.7	7.7	-61.4	14.3	-43.6	128.7	123.3	-251.6
1055	ok	0.15	0.2	1.36e-02	7.7	7.7	7.7	7.7	-47.5	13.1	-44.8	160.9	182.3	-228.0
1056	ok	0.15	0.1	1.23e-02	7.7	7.7	7.7	7.7	-49.8	11.0	-46.3	86.0	146.8	-228.3
1057	ok	0.15	0.1	1.06e-02	7.7	7.7	7.7	7.7	-21.4	10.8	-34.1	-168.1	41.2	-292.5
1058	ok	0.15	0.3	2.82e-02	7.7	7.7	7.7	7.7	-172.1	53.2	-23.8	-1032.6	-374.8	-3.6
1059	ok	0.15	0.2	3.95e-02	7.7	7.7	7.7	7.7	-160.9	-48.5	-19.5	-1734.4	-429.6	206.8
1060	ok	0.15	0.2	1.99e-02	7.7	7.7	7.7	7.7	-84.6	16.6	-28.6	42.6	183.1	-322.7
1061	ok	0.15	0.2	1.67e-02	7.7	7.7	7.7	7.7	-75.8	10.0	-38.1	128.7	302.7	-306.3
1062	ok	0.15	0.2	1.51e-02	7.7	7.7	7.7	7.7	-63.5	11.9	-37.1	153.5	480.3	-248.7
1063	ok	0.15	0.2	1.30e-02	7.7	7.7	7.7	7.7	-48.4	14.3	-35.6	169.9	529.2	-203.7
1064	ok	0.15	0.1	1.12e-02	7.7	7.7	7.7	7.7	-31.4	17.6	-32.2	145.5	502.8	-183.9
1065	ok	0.15	0.1	8.99e-03	7.7	7.7	7.7	7.7	-32.6	15.4	-33.6	22.9	328.7	-218.7
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-198.39	-362.11	-106.97	-1831.55	-509.68	-377.44
		0.15	0.37	0.09	7.70	7.70	7.70	7.70	278.98	196.37	100.05	397.34	971.13	383.52

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
1	ok	1.58						
2	ok	0.89						
7	ok	0.60						
8	ok	0.26						
13	ok	1.76						
16	ok	0.77						
18	ok	0.50						
20	ok	0.42						
22	ok	0.43						
24	ok	0.51						
26	ok	0.65						
220	ok	1.00						
223	ok	0.49						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 216 di 378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
225	ok	0.39						
227	ok	0.31						
229	ok	0.31						
231	ok	0.32						
233	ok	0.32						
420	ok	0.78						
422	ok	0.78						
424	ok	0.75						
426	ok	0.67						
428	ok	0.68						
430	ok	0.68						
432	ok	0.65						
581	ok	1.76						
582	ok	1.58						
583	ok	0.77						
584	ok	0.50						
585	ok	0.42						
586	ok	0.43						
587	ok	0.51						
588	ok	0.65						
589	ok	1.20						
590	ok	1.21						
591	ok	0.71						
592	ok	0.43						
593	ok	0.31						
594	ok	0.27						
595	ok	0.31						
596	ok	0.48						
597	ok	0.86						
598	ok	0.88						
599	ok	0.52						
600	ok	0.30						
601	ok	0.20						
602	ok	0.19						
603	ok	0.27						
604	ok	0.44						
605	ok	0.65						
606	ok	0.87						
607	ok	0.38						
608	ok	0.24						
609	ok	0.13						
610	ok	0.14						
611	ok	0.26						
612	ok	0.42						
613	ok	0.52						
614	ok	0.89						
615	ok	0.32						
616	ok	0.21						
617	ok	0.15						
618	ok	0.14						
619	ok	0.23						
620	ok	0.39						
621	ok	0.61						
622	ok	0.89						
623	ok	0.35						
624	ok	0.28						
625	ok	0.23						
626	ok	0.22						
627	ok	0.22						
628	ok	0.34						
629	ok	1.00						
630	ok	0.89						
631	ok	0.49						
632	ok	0.39						
633	ok	0.31						
634	ok	0.31						
635	ok	0.32						
636	ok	0.34						
637	ok	1.18						
641	ok	0.61						

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
649	ok	1.59						
652	ok	0.73						
654	ok	0.43						
656	ok	0.38						
658	ok	0.41						
660	ok	0.49						
662	ok	0.63						
849	ok	0.66						
851	ok	0.70						
853	ok	0.70						
855	ok	0.68						
857	ok	0.75						
859	ok	0.78						
861	ok	0.78						
1010	ok	0.80						
1011	ok	0.83						
1012	ok	0.38						
1013	ok	0.33						
1014	ok	0.28						
1015	ok	0.30						
1016	ok	0.31						
1017	ok	0.33						
1018	ok	0.47						
1019	ok	0.83						
1020	ok	0.28						
1021	ok	0.23						
1022	ok	0.21						
1023	ok	0.22						
1024	ok	0.21						
1025	ok	0.33						
1026	ok	0.38						
1027	ok	0.78						
1028	ok	0.28						
1029	ok	0.17						
1030	ok	0.13						
1031	ok	0.14						
1032	ok	0.23						
1033	ok	0.39						
1034	ok	0.52						
1035	ok	0.78						
1036	ok	0.34						
1037	ok	0.20						
1038	ok	0.11						
1039	ok	0.14						
1040	ok	0.25						
1041	ok	0.42						
1042	ok	0.70						
1043	ok	0.73						
1044	ok	0.42						
1045	ok	0.26						
1046	ok	0.17						
1047	ok	0.18						
1048	ok	0.26						
1049	ok	0.43						
1050	ok	1.08						
1051	ok	1.13						
1052	ok	0.59						
1053	ok	0.35						
1054	ok	0.27						
1055	ok	0.26						
1056	ok	0.30						
1057	ok	0.46						
1058	ok	1.59						
1059	ok	1.18						
1060	ok	0.73						
1061	ok	0.43						
1062	ok	0.38						
1063	ok	0.41						
1064	ok	0.49						
1065	ok	0.63						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 218 di 378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		1.76						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
5	30.00	5	3	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									daN/cm	daN/cm	daN/cm	daN	daN	daN
637	ok	0.15	0.4	6.46e-03	7.7	7.7	7.7	7.7	27.0	2.3	53.2	789.8	3.9	-336.3
638	ok	0.15	0.2	1.50e-02	7.7	7.7	7.7	7.7	-31.4	67.6	-16.4	1559.1	342.2	41.8
639	ok	0.17	0.6	0.1	9.2	10.8	9.2	9.2	-536.7	-54.4	85.4	1486.5	100.6	-79.3
640	ok	0.15	0.4	1.49e-02	7.7	7.7	7.7	7.7	-32.6	58.5	-43.0	2427.8	503.8	-97.0
641	ok	0.15	4.78e-02	1.64e-03	7.7	7.7	7.7	7.7	15.1	-8.3	-6.8	-72.0	-50.6	21.4
642	ok	0.15	0.2	1.42e-02	7.7	7.7	7.7	7.7	-30.5	53.6	-17.9	1370.9	308.6	133.0
643	ok	0.15	0.7	1.02e-02	7.7	7.7	7.7	7.7	-46.2	-3.3	-11.6	653.8	26.9	88.5
644	ok	0.15	0.4	1.45e-02	7.7	7.7	7.7	7.7	-32.8	46.4	-40.1	2662.0	547.7	-101.2
649	ok	0.15	0.2	1.19e-02	7.7	7.7	7.7	7.7	192.1	26.5	-6.2	-61.6	-869.1	-59.1
650	ok	0.15	0.1	3.95e-02	7.7	7.7	7.7	7.7	-243.3	54.6	15.8	588.7	293.9	-405.6
651	ok	0.15	0.2	5.52e-02	7.7	7.7	7.7	7.7	-68.5	-80.5	15.3	1523.6	196.1	-576.2
652	ok	0.15	0.2	1.76e-02	7.7	7.7	7.7	7.7	-77.4	19.9	42.9	-139.0	-602.5	-294.8
653	ok	0.15	0.1	2.65e-02	7.7	7.7	7.7	7.7	-106.7	27.7	44.1	-89.1	-218.4	-338.2
654	ok	0.15	0.2	1.72e-02	7.7	7.7	7.7	7.7	-92.1	9.1	37.9	-147.8	-573.6	-314.7
655	ok	0.15	0.2	1.92e-02	7.7	7.7	7.7	7.7	-98.7	11.1	33.8	-146.0	-341.8	-331.3
656	ok	0.15	0.2	1.50e-02	7.7	7.7	7.7	7.7	-81.6	6.3	32.4	-126.9	-591.6	-315.3
657	ok	0.15	0.2	1.49e-02	7.7	7.7	7.7	7.7	-84.0	7.9	25.5	0.5	-407.3	-334.3
658	ok	0.15	0.1	1.21e-02	7.7	7.7	7.7	7.7	-64.2	7.2	29.9	-119.1	-634.1	-269.5
659	ok	0.15	0.1	1.19e-02	7.7	7.7	7.7	7.7	-67.4	8.0	21.5	5.3	-433.7	-273.8
660	ok	0.15	0.1	8.73e-03	7.7	7.7	7.7	7.7	-43.4	11.1	26.3	-101.2	-641.7	-203.5
661	ok	0.15	0.1	8.91e-03	7.7	7.7	7.7	7.7	-50.7	10.7	17.0	80.5	-394.0	-155.5
662	ok	0.15	0.1	4.60e-03	7.7	7.7	7.7	7.7	-19.3	17.1	20.3	-41.8	-498.5	-105.4
663	ok	0.15	9.55e-02	6.40e-03	7.7	7.7	7.7	7.7	-4.1	-17.4	-11.0	-188.6	-148.2	144.6
664	ok	0.15	0.1	6.82e-03	7.7	7.7	7.7	7.7	-19.6	29.4	5.1	545.8	112.2	269.9
665	ok	0.15	0.2	4.26e-02	7.7	7.7	7.7	7.7	-180.7	8.7	-24.6	953.0	461.5	-305.6
666	ok	0.15	0.3	6.36e-02	7.7	7.7	7.7	7.7	-289.7	-138.1	-55.4	2693.9	617.6	-235.5
667	ok	0.15	0.1	2.85e-02	7.7	7.7	7.7	7.7	-162.5	17.5	-39.9	-77.3	168.4	-469.9
668	ok	0.15	0.1	2.00e-02	7.7	7.7	7.7	7.7	-95.8	21.3	12.4	98.2	55.7	-450.3
669	ok	0.15	0.2	1.52e-02	7.7	7.7	7.7	7.7	-71.8	15.6	11.3	195.7	24.0	-378.9
670	ok	0.15	0.1	1.19e-02	7.7	7.7	7.7	7.7	-55.4	19.0	-5.7	318.8	110.8	-290.2
671	ok	0.15	0.1	9.78e-03	7.7	7.7	7.7	7.7	-40.6	24.7	-7.0	502.7	154.8	-99.4
672	ok	0.15	0.1	8.18e-03	7.7	7.7	7.7	7.7	-38.7	34.1	3.1	615.1	187.5	91.1
673	ok	0.15	0.1	1.05e-02	7.7	7.7	7.7	7.7	-10.7	-61.3	-6.1	-33.2	-36.5	118.4
674	ok	0.15	0.2	4.54e-02	7.7	7.7	7.7	7.7	-157.6	-26.5	-94.0	928.2	398.1	-286.6
675	ok	0.15	0.3	5.73e-02	7.7	7.7	7.7	7.7	-159.0	-124.7	-104.9	1422.9	363.5	54.3
676	ok	0.15	0.1	2.95e-02	7.7	7.7	7.7	7.7	-116.1	5.9	-53.1	554.2	347.3	-250.2
677	ok	0.15	0.1	1.99e-02	7.7	7.7	7.7	7.7	-81.5	10.9	-21.5	369.9	269.0	-136.3
678	ok	0.15	0.1	1.50e-02	7.7	7.7	7.7	7.7	-58.8	12.9	-26.9	152.1	155.8	-151.4
679	ok	0.15	0.1	1.19e-02	7.7	7.7	7.7	7.7	-54.6	19.1	-8.5	554.0	266.2	-292.3
680	ok	0.15	0.1	1.02e-02	7.7	7.7	7.7	7.7	-41.9	27.1	-18.5	787.9	302.2	-108.8
681	ok	0.15	0.1	8.87e-03	7.7	7.7	7.7	7.7	-29.9	42.4	-13.0	1043.9	316.8	146.2
682	ok	0.15	0.2	1.27e-02	7.7	7.7	7.7	7.7	-29.5	54.4	-9.4	1150.0	263.5	193.4
683	ok	0.15	0.3	3.49e-02	7.7	7.7	7.7	7.7	-74.2	-71.0	-96.2	775.7	203.9	-193.1
684	ok	0.15	0.3	3.04e-02	7.7	7.7	7.7	7.7	-45.6	-81.5	-81.4	629.8	157.8	39.7
685	ok	0.15	0.2	2.69e-02	7.7	7.7	7.7	7.7	-85.0	-30.4	-66.9	634.4	260.3	-232.8
686	ok	0.15	0.1	2.00e-02	7.7	7.7	7.7	7.7	-71.5	-10.1	-39.6	506.9	276.5	-143.5
687	ok	0.15	0.1	1.54e-02	7.7	7.7	7.7	7.7	-66.1	9.1	-16.3	483.4	271.9	-427.1
688	ok	0.15	0.1	1.23e-02	7.7	7.7	7.7	7.7	-54.3	16.9	-12.4	764.3	332.8	-299.2
689	ok	0.15	0.2	1.03e-02	7.7	7.7	7.7	7.7	-41.8	28.4	-23.6	1092.2	366.6	-139.4
690	ok	0.15	0.2	9.79e-03	7.7	7.7	7.7	7.7	-30.7	39.9	-16.9	1216.6	340.4	104.5
691	ok	0.15	0.3	2.51e-02	7.7	7.7	7.7	7.7	-32.1	-74.4	-52.4	624.6	113.4	-166.3
692	ok	0.15	0.3	2.01e-02	7.7	7.7	7.7	7.7	-3.2	-56.7	-56.0	270.6	69.3	-44.0
693	ok	0.15	0.2	2.17e-02	7.7	7.7	7.7	7.7	-53.9	-54.2	-50.7	666.4	183.2	-164.2

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
694	ok	0.15	0.1	1.78e-02	7.7	7.7	7.7	7.7	-63.1	-30.5	-35.6	607.7	242.3	-112.6
695	ok	0.15	0.1	1.48e-02	7.7	7.7	7.7	7.7	-61.3	4.8	-27.4	625.6	289.5	-412.4
696	ok	0.15	0.2	1.23e-02	7.7	7.7	7.7	7.7	-52.3	16.3	-26.6	979.4	368.2	-313.1
697	ok	0.15	0.2	1.05e-02	7.7	7.7	7.7	7.7	-42.0	26.7	-27.4	1317.8	410.4	-164.8
698	ok	0.15	0.2	1.06e-02	7.7	7.7	7.7	7.7	-42.3	40.6	-26.7	1408.1	366.8	-86.4
699	ok	0.15	0.3	2.01e-02	7.7	7.7	7.7	7.7	-86.3	-39.1	32.3	-1348.4	-264.8	-161.6
700	ok	0.15	0.4	1.77e-02	7.7	7.7	7.7	7.7	-63.7	-40.7	21.7	-1510.3	-309.1	-123.8
701	ok	0.15	0.2	1.75e-02	7.7	7.7	7.7	7.7	-51.3	-61.7	-19.5	695.4	177.1	-97.2
702	ok	0.15	0.2	1.57e-02	7.7	7.7	7.7	7.7	-59.3	-39.8	-24.5	668.9	228.8	-67.9
703	ok	0.15	0.1	1.41e-02	7.7	7.7	7.7	7.7	-62.7	5.6	-28.7	712.2	292.5	-396.9
704	ok	0.15	0.2	1.22e-02	7.7	7.7	7.7	7.7	-52.8	17.5	-30.7	1130.9	379.8	-323.8
705	ok	0.15	0.2	1.06e-02	7.7	7.7	7.7	7.7	-42.2	28.9	-32.0	1512.2	430.2	-203.9
706	ok	0.15	0.3	1.13e-02	7.7	7.7	7.7	7.7	-32.6	45.3	-30.8	1761.6	411.7	-49.6
707	ok	0.15	0.3	1.54e-02	7.7	7.7	7.7	7.7	-32.4	60.3	-29.3	1852.4	392.5	2.3
708	ok	0.15	0.4	2.92e-02	7.7	7.7	7.7	7.7	-129.1	-36.7	34.0	-1391.4	-220.1	-126.3
709	ok	0.15	0.4	3.06e-02	7.7	7.7	7.7	7.7	-163.9	-74.9	-8.99e-02	-1360.2	-271.2	-174.5
710	ok	0.15	0.3	2.12e-02	7.7	7.7	7.7	7.7	-128.6	-5.1	-16.9	-918.1	-48.9	-223.8
711	ok	0.15	0.2	1.76e-02	7.7	7.7	7.7	7.7	-82.7	7.29e-02	-28.5	435.7	184.9	-382.6
712	ok	0.15	0.2	1.51e-02	7.7	7.7	7.7	7.7	-67.8	10.1	-34.2	769.8	294.5	-392.2
713	ok	0.15	0.2	1.30e-02	7.7	7.7	7.7	7.7	-54.6	20.0	-36.5	1255.0	384.1	-338.3
714	ok	0.15	0.3	1.10e-02	7.7	7.7	7.7	7.7	-42.8	30.7	-37.2	1685.0	443.5	-235.8
715	ok	0.15	0.3	1.17e-02	7.7	7.7	7.7	7.7	-32.9	45.7	-34.3	1974.8	444.7	-88.4
716	ok	0.15	0.3	1.54e-02	7.7	7.7	7.7	7.7	-32.2	60.6	-37.1	2043.8	429.9	-32.8
717	ok	0.15	0.3	3.50e-02	7.7	7.7	7.7	7.7	-193.1	-3.8	-53.2	-1542.6	-152.3	-59.1
718	ok	0.15	0.3	5.43e-02	7.7	7.7	7.7	7.7	-250.6	-94.9	-67.5	-1150.4	-200.3	148.3
719	ok	0.15	0.3	2.53e-02	7.7	7.7	7.7	7.7	-138.0	0.2	-53.5	-1171.1	-84.4	-227.0
720	ok	0.15	0.2	2.00e-02	7.7	7.7	7.7	7.7	-90.6	7.9	-44.0	486.2	183.7	-386.8
721	ok	0.15	0.2	1.65e-02	7.7	7.7	7.7	7.7	-70.2	13.7	-44.7	810.5	287.7	-400.7
722	ok	0.15	0.2	1.38e-02	7.7	7.7	7.7	7.7	-55.0	21.5	-44.1	1362.3	382.6	-355.9
723	ok	0.15	0.3	1.16e-02	7.7	7.7	7.7	7.7	-42.8	31.3	-42.8	1844.4	454.3	-264.1
724	ok	0.15	0.3	1.18e-02	7.7	7.7	7.7	7.7	-33.0	44.4	-37.6	2181.4	477.0	-118.2
725	ok	0.15	0.3	1.52e-02	7.7	7.7	7.7	7.7	-32.4	60.8	-40.3	2235.2	466.8	-54.4
726	ok	0.15	0.4	3.53e-02	7.7	7.7	7.7	7.7	-118.4	-30.2	-98.1	-2134.9	-387.6	35.3
727	ok	0.15	0.4	4.03e-02	7.7	7.7	7.7	7.7	-167.1	-71.1	-88.0	-1978.7	-391.2	328.0
728	ok	0.15	0.3	2.61e-02	7.7	7.7	7.7	7.7	-102.5	-10.6	-81.7	-1367.3	-197.2	-239.1
729	ok	0.15	0.2	2.08e-02	7.7	7.7	7.7	7.7	-74.8	1.1	-64.2	546.1	146.9	-398.9
730	ok	0.15	0.2	1.71e-02	7.7	7.7	7.7	7.7	-65.2	12.2	-55.7	844.8	261.8	-412.4
731	ok	0.15	0.3	1.44e-02	7.7	7.7	7.7	7.7	-52.1	20.2	-51.4	1460.2	373.5	-371.4
732	ok	0.15	0.3	1.22e-02	7.7	7.7	7.7	7.7	-41.5	31.2	-46.0	1958.1	463.8	-285.5
733	ok	0.15	0.4	1.20e-02	7.7	7.7	7.7	7.7	-32.7	41.2	-40.1	2383.4	508.6	-163.3
734	ok	0.15	0.5	3.01e-02	7.7	7.7	7.7	7.7	-72.9	-33.3	-98.7	-2663.3	-562.9	12.7
735	ok	0.15	0.5	2.73e-02	7.7	7.7	7.7	7.7	-50.0	-25.6	-87.3	-2851.7	-587.9	261.5
736	ok	0.15	0.4	2.35e-02	7.7	7.7	7.7	7.7	-77.9	-16.4	-87.1	-1659.8	-312.2	-222.9
737	ok	0.15	0.2	1.94e-02	7.7	7.7	7.7	7.7	-73.0	-5.5	-73.5	-756.3	-108.9	-361.4
738	ok	0.15	0.2	1.67e-02	7.7	7.7	7.7	7.7	-54.7	6.6	-61.6	873.9	223.1	-414.2
739	ok	0.15	0.3	1.44e-02	7.7	7.7	7.7	7.7	-46.7	16.5	-55.8	1552.8	360.7	-379.4
740	ok	0.15	0.3	1.23e-02	7.7	7.7	7.7	7.7	-39.1	28.2	-49.1	2109.2	459.7	-299.2
741	ok	0.15	0.4	1.21e-02	7.7	7.7	7.7	7.7	-32.1	34.9	-42.8	2623.1	549.3	-178.8
742	ok	0.15	0.5	2.39e-02	7.7	7.7	7.7	7.7	-28.2	-101.3	-34.9	495.0	42.5	7.8
743	ok	0.15	0.6	2.05e-02	7.7	7.7	7.7	7.7	-2.5	-86.5	-26.4	19.9	7.8	42.7
744	ok	0.15	0.4	2.03e-02	7.7	7.7	7.7	7.7	-46.4	-79.3	-31.2	679.7	91.9	-30.2
745	ok	0.15	0.3	1.70e-02	7.7	7.7	7.7	7.7	-53.3	-56.0	-27.8	739.3	137.7	-33.7
746	ok	0.15	0.2	1.52e-02	7.7	7.7	7.7	7.7	-44.9	1.2	-60.6	897.1	190.9	-404.0
747	ok	0.15	0.3	1.38e-02	7.7	7.7	7.7	7.7	-41.6	12.5	-56.3	1640.2	351.8	-378.3
748	ok	0.15	0.4	1.22e-02	7.7	7.7	7.7	7.7	-36.1	20.0	-47.8	2288.7	477.3	-306.1
749	ok	0.15	0.4	1.20e-02	7.7	7.7	7.7	7.7	-31.9	30.1	-42.3	2819.2	581.2	-187.2
750	ok	0.15	0.4	1.39e-02	7.7	7.7	7.7	7.7	-32.7	45.6	-46.9	2856.0	585.9	-118.8
751	ok	0.15	0.6	2.08e-02	7.7	7.7	7.7	7.7	-34.4	-99.1	8.2	753.2	104.3	-30.2
752	ok	0.15	0.6	2.00e-02	7.7	7.7	7.7	7.7	-8.4	-89.0	3.53e-02	498.6	106.1	-77.0
753	ok	0.15	0.4	1.68e-02	7.7	7.7	7.7	7.7	-49.7	-76.4	-4.3	669.6	97.1	1.0
754	ok	0.15	0.3	1.50e-02	7.7	7.7	7.7	7.7	-54.0	-54.4	-11.4	731.9	134.9	-9.8
755	ok	0.15	0.2	1.40e-02	7.7	7.7	7.7	7.7	-40.1	-0.5	-55.8	879.2	178.8	-388.5
756	ok	0.15	0.3	1.30e-02	7.7	7.7	7.7	7.7	-38.3	10.0	-54.2	1722.3	354.5	-372.1
757	ok	0.15	0.4	1.18e-02	7.7	7.7	7.7	7.7	-35.7	19.9	-50.7	2432.3	502.0	-305.9
758	ok	0.15	0.4	1.18e-02	7.7	7.7	7.7	7.7	-31.7	29.8	-44.8	3015.4	618.5	-184.0
759	ok	0.15	0.4	1.30e-02	7.7	7.7	7.7	7.7	-33.0	39.5	-46.4	3051.0	623.5	-124.0
760	ok	0.15	0.6	2.29e-02	7.7	7.7	7.7	7.7	-83.0	-85.2	26.6	880.7	203.7	-44.1
761	ok	0.15	0.6	2.54e-02	7.7	7.7	7.7	7.7	-72.9	-112.8	22.5	925.8	227.7	-153.5
762	ok	0.15	0.4	1.55e-02	7.7	7.7	7.7	7.7	-70.8	-63.6	6.7	776.8	179.9	25.4

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 220 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
763	ok	0.15	0.3	1.46e-02	7.7	7.7	7.7	7.7	-56.2	-45.7	-8.0	719.0	161.1	-3.5
764	ok	0.15	0.2	1.39e-02	7.7	7.7	7.7	7.7	-41.2	1.9	-46.1	882.5	181.8	-375.8
765	ok	0.15	0.3	1.27e-02	7.7	7.7	7.7	7.7	-38.6	9.5	-51.8	1801.0	368.7	-366.9
766	ok	0.15	0.4	1.16e-02	7.7	7.7	7.7	7.7	-34.8	18.4	-47.2	2520.3	516.0	-303.8
767	ok	0.15	0.5	1.14e-02	7.7	7.7	7.7	7.7	-31.3	21.8	-37.0	3154.6	641.8	-192.1
768	ok	0.15	0.5	1.20e-02	7.7	7.7	7.7	7.7	-32.3	35.1	-43.5	3190.9	650.6	-127.7
769	ok	0.15	0.6	2.83e-02	7.7	7.7	7.7	7.7	-110.3	-63.6	-4.6	951.4	274.2	-21.1
770	ok	0.15	0.5	3.72e-02	7.7	7.7	7.7	7.7	-160.9	-134.8	4.4	1518.5	323.2	-130.6
771	ok	0.15	0.4	1.89e-02	7.7	7.7	7.7	7.7	-78.4	-52.0	-8.4	673.2	202.0	-9.8
772	ok	0.15	0.3	1.59e-02	7.7	7.7	7.7	7.7	-61.6	-39.3	-12.6	708.7	180.1	-17.0
773	ok	0.15	0.2	1.43e-02	7.7	7.7	7.7	7.7	-44.0	5.5	-45.9	886.1	193.2	-378.2
774	ok	0.15	0.3	1.29e-02	7.7	7.7	7.7	7.7	-39.5	9.9	-48.8	1817.9	374.0	-363.3
775	ok	0.15	0.4	1.14e-02	7.7	7.7	7.7	7.7	-34.8	10.7	-41.2	2712.7	552.1	-303.8
776	ok	0.15	0.5	1.09e-02	7.7	7.7	7.7	7.7	-31.7	14.5	-36.1	3404.4	690.6	-191.8
777	ok	0.15	0.5	1.10e-02	7.7	7.7	7.7	7.7	-32.5	28.5	-41.8	3377.8	687.0	-128.9
778	ok	0.15	0.6	3.04e-02	7.7	7.7	7.7	7.7	-141.7	53.6	-31.7	-146.5	90.9	-27.2
779	ok	0.15	0.6	4.55e-02	7.7	7.7	7.7	7.7	-174.1	-56.8	-41.5	-3178.6	-625.9	197.4
780	ok	0.15	0.4	1.98e-02	7.7	7.7	7.7	7.7	-67.4	-52.4	-26.6	659.9	176.9	-33.0
781	ok	0.15	0.3	1.60e-02	7.7	7.7	7.7	7.7	-56.6	-37.8	-24.1	701.8	165.4	-34.5
782	ok	0.15	0.2	1.42e-02	7.7	7.7	7.7	7.7	-43.8	5.5	-53.3	895.1	192.7	-386.1
783	ok	0.15	0.3	1.28e-02	7.7	7.7	7.7	7.7	-38.5	8.5	-48.2	1886.9	384.8	-365.6
784	ok	0.15	0.4	1.14e-02	7.7	7.7	7.7	7.7	-34.5	10.8	-45.3	2854.6	578.6	-303.8
785	ok	0.15	0.5	1.03e-02	7.7	7.7	7.7	7.7	-31.7	9.5	-33.3	3599.2	728.0	-191.0
786	ok	0.15	0.5	9.83e-03	7.7	7.7	7.7	7.7	-32.7	18.3	-41.1	3635.9	737.5	-127.9
787	ok	0.15	0.7	2.22e-02	7.7	7.7	7.7	7.7	-29.1	-77.2	-23.6	505.9	61.4	14.7
788	ok	0.15	0.7	1.68e-02	7.7	7.7	7.7	7.7	-51.8	27.8	-50.3	-601.8	-128.5	126.0
789	ok	0.15	0.5	1.62e-02	7.7	7.7	7.7	7.7	-48.9	-58.9	-23.4	630.4	104.4	-36.9
790	ok	0.15	0.3	1.42e-02	7.7	7.7	7.7	7.7	-52.0	-39.7	-21.7	696.7	125.0	-40.7
791	ok	0.15	0.2	1.33e-02	7.7	7.7	7.7	7.7	-37.3	2.3	-53.2	910.2	179.6	-390.9
792	ok	0.15	0.3	1.24e-02	7.7	7.7	7.7	7.7	-35.2	5.3	-46.2	1959.1	389.4	-365.9
793	ok	0.15	0.4	1.12e-02	7.7	7.7	7.7	7.7	-33.1	7.0	-42.4	2998.0	601.8	-302.0
794	ok	0.15	0.5	9.84e-03	7.7	7.7	7.7	7.7	-31.5	4.6	-29.5	3794.6	765.0	-188.5
795	ok	0.15	0.5	8.86e-03	7.7	7.7	7.7	7.7	-32.9	11.7	-38.2	3830.7	775.0	-126.0
796	ok	0.15	0.8	1.68e-02	7.7	7.7	7.7	7.7	-17.7	-76.7	17.0	1113.1	159.3	14.0
797	ok	0.15	0.8	1.55e-02	7.7	7.7	7.7	7.7	5.7	-56.6	17.5	1222.1	244.9	34.8
798	ok	0.15	0.5	1.26e-02	7.7	7.7	7.7	7.7	-37.2	-57.2	9.5	882.0	106.9	9.2
799	ok	0.15	0.4	1.18e-02	7.7	7.7	7.7	7.7	-32.0	-19.9	39.7	2414.1	457.0	297.7
800	ok	0.15	0.2	1.19e-02	7.7	7.7	7.7	7.7	-26.5	-20.3	44.3	1132.5	203.9	361.8
801	ok	0.15	0.3	1.17e-02	7.7	7.7	7.7	7.7	-15.3	-17.5	42.5	-1390.9	-307.6	361.4
802	ok	0.15	0.5	1.09e-02	7.7	7.7	7.7	7.7	-10.3	-18.3	39.1	-2338.6	-493.5	302.3
803	ok	0.15	0.6	9.76e-03	7.7	7.7	7.7	7.7	-31.3	5.4	-31.6	3991.5	801.5	-177.2
804	ok	0.15	0.8	2.14e-02	7.7	7.7	7.7	7.7	-33.5	-66.5	38.0	1156.2	173.9	-26.5
805	ok	0.15	0.9	1.94e-02	7.7	7.7	7.7	7.7	-9.9	-70.9	40.3	1327.8	270.6	-71.7
806	ok	0.15	0.6	1.59e-02	7.7	7.7	7.7	7.7	-28.7	-24.8	40.5	1089.2	149.0	89.6
807	ok	0.15	0.4	1.24e-02	7.7	7.7	7.7	7.7	-28.6	-25.0	45.0	2556.9	468.7	308.2
808	ok	0.15	0.2	1.22e-02	7.7	7.7	7.7	7.7	-25.6	-23.5	46.0	1200.7	204.7	366.9
809	ok	0.15	0.3	1.11e-02	7.7	7.7	7.7	7.7	-17.6	-16.3	42.1	-1465.5	-337.3	363.1
810	ok	0.15	0.5	1.06e-02	7.7	7.7	7.7	7.7	-10.6	-18.1	37.0	-2480.4	-528.7	310.0
811	ok	0.15	0.6	9.69e-03	7.7	7.7	7.7	7.7	-12.9	-19.4	35.5	-2451.2	-512.1	258.4
812	ok	0.15	0.6	8.59e-03	7.7	7.7	7.7	7.7	-27.6	-19.4	17.6	709.1	137.5	16.9
813	ok	0.15	0.9	3.15e-02	7.7	7.7	7.7	7.7	-84.5	-48.2	62.2	1294.0	255.1	-56.1
814	ok	0.15	0.9	3.05e-02	7.7	7.7	7.7	7.7	-68.9	-101.7	59.6	1626.4	351.3	-126.2
815	ok	0.15	0.6	2.03e-02	7.7	7.7	7.7	7.7	-63.6	-16.0	58.9	1695.9	295.0	39.1
816	ok	0.15	0.4	1.54e-02	7.7	7.7	7.7	7.7	-34.4	-22.3	51.7	1229.1	212.3	340.8
817	ok	0.15	0.2	1.42e-02	7.7	7.7	7.7	7.7	-41.6	-21.4	48.4	1259.9	211.9	362.9
818	ok	0.15	0.3	1.33e-02	7.7	7.7	7.7	7.7	-21.3	-14.9	40.8	-1525.0	-356.0	367.2
819	ok	0.15	0.5	1.17e-02	7.7	7.7	7.7	7.7	-23.3	-15.3	38.3	-1500.1	-350.9	349.9
820	ok	0.15	0.6	9.91e-03	7.7	7.7	7.7	7.7	-27.5	-12.6	15.9	464.7	74.1	50.4
821	ok	0.15	0.6	8.23e-03	7.7	7.7	7.7	7.7	-27.8	-12.4	17.2	825.0	160.0	23.4
822	ok	0.15	0.9	3.97e-02	7.7	7.7	7.7	7.7	-152.2	9.2	43.1	1421.3	377.8	-64.1
823	ok	0.15	0.9	5.36e-02	7.7	7.7	7.7	7.7	-221.8	-122.3	71.3	1555.7	437.4	-197.0
824	ok	0.15	0.6	2.34e-02	7.7	7.7	7.7	7.7	-90.5	-22.0	62.7	1818.6	346.9	33.5
825	ok	0.15	0.4	2.15e-02	7.7	7.7	7.7	7.7	-82.1	-17.8	49.9	1261.6	210.4	108.4
826	ok	0.15	0.2	1.86e-02	7.7	7.7	7.7	7.7	-60.0	-13.3	44.9	1330.8	215.8	364.3
827	ok	0.15	0.3	1.55e-02	7.7	7.7	7.7	7.7	-48.2	-12.0	37.2	-253.7	-92.7	375.7
828	ok	0.15	0.5	1.25e-02	7.7	7.7	7.7	7.7	-42.2	-8.9	24.3	313.5	22.2	60.5
829	ok	0.15	0.7	9.63e-03	7.7	7.7	7.7	7.7	-34.9	-2.8	-17.3	4643.3	942.7	-167.1
830	ok	0.15	0.7	7.66e-03	7.7	7.7	7.7	7.7	-45.6	-13.5	-6.4	4685.6	996.6	-66.4
831	ok	0.17	0.8	4.99e-02	9.2	10.8	9.2	9.2	-162.4	-29.5	70.3	740.9	159.8	-125.4
832	ok	0.17	0.8	5.19e-02	9.2	10.8	9.2	9.2	-224.4	-145.9	8.1	2642.5	513.6	48.6

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
833	ok	0.15	0.6	3.72e-02	7.7	7.7	7.7	7.7	-148.7	-10.1	61.2	451.0	57.8	15.0
834	ok	0.15	0.3	2.89e-02	7.7	7.7	7.7	7.7	-118.8	-6.6	43.6	288.4	17.0	53.8
835	ok	0.15	0.2	2.24e-02	7.7	7.7	7.7	7.7	-92.2	-4.2	31.2	223.1	1.8	65.4
836	ok	0.15	0.3	1.71e-02	7.7	7.7	7.7	7.7	-70.0	-2.7	22.7	234.9	0.9	67.9
837	ok	0.15	0.5	1.29e-02	7.7	7.7	7.7	7.7	-51.5	-2.1	16.2	313.4	11.6	71.2
838	ok	0.15	0.7	9.73e-03	7.7	7.7	7.7	7.7	-48.6	0.2	-13.0	4856.7	878.2	-61.2
839	ok	0.15	0.7	8.42e-03	7.7	7.7	7.7	7.7	-45.6	-14.4	-15.6	4896.5	1023.9	-22.2
840	ok	0.17	0.7	6.76e-02	9.2	10.8	9.2	9.2	-338.3	17.3	-10.1	954.2	-8.9	-111.2
841	ok	0.15	0.6	4.87e-02	7.7	7.7	7.7	7.7	-235.6	1.3	0.6	492.7	6.5	15.9
842	ok	0.15	0.3	3.42e-02	7.7	7.7	7.7	7.7	-165.5	0.6	-1.1	300.3	6.3	38.3
843	ok	0.15	0.2	2.43e-02	7.7	7.7	7.7	7.7	-117.6	0.2	-2.1	225.4	5.8	40.6
844	ok	0.15	0.4	1.73e-02	7.7	7.7	7.7	7.7	-83.7	-3.92e-02	-2.7	235.0	5.4	37.7
845	ok	0.15	0.5	1.24e-02	7.7	7.7	7.7	7.7	-53.4	1.1	-2.9	912.9	-4.3	17.0
846	ok	0.15	0.7	9.44e-03	7.7	7.7	7.7	7.7	-43.6	-0.3	-3.5	1043.0	-3.9	43.4
847	ok	0.15	0.6	8.75e-03	7.7	7.7	7.7	7.7	-32.9	5.6	-34.6	4026.3	813.7	-121.9
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									-536.71	-145.88	-104.86	-3178.62	-869.13	-576.17
		0.17	0.93	0.11	9.24	10.78	9.24	9.24	192.10	67.60	85.35	4896.55	1023.94	375.75

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
637	ok	1.14						
638	ok	0.31						
639	ok	2.29						
640	ok	0.37						
641	ok	0.40						
642	ok	0.32						
643	ok	1.04						
644	ok	0.40						
649	ok	1.33						
650	ok	1.33						
651	ok	1.14						
652	ok	0.78						
653	ok	0.78						
654	ok	0.49						
655	ok	0.49						
656	ok	0.44						
657	ok	0.44						
658	ok	0.48						
659	ok	0.48						
660	ok	0.53						
661	ok	0.53						
662	ok	0.65						
663	ok	0.65						
664	ok	0.40						
665	ok	1.02						
666	ok	1.02						
667	ok	0.56						
668	ok	0.36						
669	ok	0.28						
670	ok	0.35						
671	ok	0.40						
672	ok	0.49						
673	ok	0.35						
674	ok	0.76						
675	ok	0.76						
676	ok	0.44						
677	ok	0.26						
678	ok	0.20						
679	ok	0.25						
680	ok	0.29						
681	ok	0.34						
682	ok	0.34						
683	ok	0.54						
684	ok	0.50						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 222 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
685	ok	0.38						
686	ok	0.29						
687	ok	0.25						
688	ok	0.25						
689	ok	0.25						
690	ok	0.32						
691	ok	0.56						
692	ok	0.55						
693	ok	0.43						
694	ok	0.35						
695	ok	0.31						
696	ok	0.28						
697	ok	0.27						
698	ok	0.31						
699	ok	0.56						
700	ok	0.55						
701	ok	0.43						
702	ok	0.38						
703	ok	0.35						
704	ok	0.32						
705	ok	0.29						
706	ok	0.29						
707	ok	0.29						
708	ok	0.56						
709	ok	0.54						
710	ok	0.49						
711	ok	0.43						
712	ok	0.39						
713	ok	0.36						
714	ok	0.33						
715	ok	0.28						
716	ok	0.30						
717	ok	0.66						
718	ok	0.69						
719	ok	0.52						
720	ok	0.48						
721	ok	0.44						
722	ok	0.41						
723	ok	0.37						
724	ok	0.31						
725	ok	0.33						
726	ok	0.88						
727	ok	0.74						
728	ok	0.60						
729	ok	0.55						
730	ok	0.51						
731	ok	0.46						
732	ok	0.41						
733	ok	0.35						
734	ok	0.89						
735	ok	0.82						
736	ok	0.73						
737	ok	0.63						
738	ok	0.57						
739	ok	0.51						
740	ok	0.45						
741	ok	0.39						
742	ok	0.91						
743	ok	0.90						
744	ok	0.78						
745	ok	0.69						
746	ok	0.62						
747	ok	0.56						
748	ok	0.50						
749	ok	0.42						
750	ok	0.44						
751	ok	0.91						
752	ok	0.92						
753	ok	0.79						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 223 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
754	ok	0.73						
755	ok	0.67						
756	ok	0.61						
757	ok	0.54						
758	ok	0.46						
759	ok	0.47						
760	ok	0.90						
761	ok	0.92						
762	ok	0.79						
763	ok	0.75						
764	ok	0.71						
765	ok	0.65						
766	ok	0.58						
767	ok	0.50						
768	ok	0.50						
769	ok	1.07						
770	ok	1.05						
771	ok	0.86						
772	ok	0.79						
773	ok	0.75						
774	ok	0.69						
775	ok	0.62						
776	ok	0.54						
777	ok	0.52						
778	ok	1.07						
779	ok	1.05						
780	ok	0.89						
781	ok	0.86						
782	ok	0.81						
783	ok	0.74						
784	ok	0.67						
785	ok	0.58						
786	ok	0.55						
787	ok	1.15						
788	ok	1.08						
789	ok	1.00						
790	ok	0.93						
791	ok	0.87						
792	ok	0.79						
793	ok	0.71						
794	ok	0.62						
795	ok	0.58						
796	ok	1.22						
797	ok	1.20						
798	ok	1.09						
799	ok	1.00						
800	ok	0.92						
801	ok	0.84						
802	ok	0.75						
803	ok	0.66						
804	ok	1.24						
805	ok	1.25						
806	ok	1.14						
807	ok	1.05						
808	ok	0.96						
809	ok	0.87						
810	ok	0.79						
811	ok	0.70						
812	ok	0.66						
813	ok	1.26						
814	ok	1.29						
815	ok	1.23						
816	ok	1.09						
817	ok	1.00						
818	ok	0.91						
819	ok	0.83						
820	ok	0.79						
821	ok	0.73						
822	ok	1.82						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 224 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
823	ok	1.83						
824	ok	1.23						
825	ok	1.09						
826	ok	1.00						
827	ok	0.91						
828	ok	0.83						
829	ok	0.92						
830	ok	1.01						
831	ok	1.82						
832	ok	2.29						
833	ok	1.45						
834	ok	1.45						
835	ok	1.42						
836	ok	1.34						
837	ok	1.20						
838	ok	1.03						
839	ok	1.04						
840	ok	1.45						
841	ok	1.45						
842	ok	1.45						
843	ok	1.42						
844	ok	1.34						
845	ok	1.20						
846	ok	1.03						
847	ok	0.62						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		2.29						

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
3	30.00	5	3	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
3	ok	0.15	0.4	7.93e-03	7.7	7.7	7.7	7.7	28.7	-1.9	18.6	667.1	3278.2	-3.1
6	ok	0.15	0.5	5.37e-03	7.7	7.7	7.7	7.7	7.8	-9.5	-23.7	738.9	3666.1	158.4
7	ok	0.15	3.30e-02	4.35e-03	7.7	7.7	7.7	7.7	2.6	-8.3	-10.8	103.2	106.6	202.4
8	ok	0.15	0.2	6.12e-03	7.7	7.7	7.7	7.7	15.4	197.3	16.0	-192.3	495.4	16.1
9	ok	0.15	0.4	8.36e-03	7.7	7.7	7.7	7.7	27.3	3.1	20.1	607.4	3017.4	-2.5
10	ok	0.15	0.7	2.26e-03	7.7	7.7	7.7	7.7	-2.7	20.0	-19.6	527.8	4661.0	-46.6
11	ok	0.15	0.9	5.16e-03	7.7	7.7	7.7	7.7	4.5	8.7	-10.8	745.6	5600.2	28.8
12	ok	0.15	0.6	4.78e-03	7.7	7.7	7.7	7.7	5.3	-9.8	-21.6	766.1	3815.5	163.9
28	ok	0.15	8.37e-02	6.85e-03	7.7	7.7	7.7	7.7	15.4	-4.2	-23.0	116.2	533.9	324.3
37	ok	0.15	0.1	9.46e-03	7.7	7.7	7.7	7.7	13.6	-2.7	-28.6	173.6	888.2	296.9
46	ok	0.15	0.2	1.14e-02	7.7	7.7	7.7	7.7	27.2	-0.2	-33.0	221.1	1136.9	236.8
55	ok	0.15	0.2	1.26e-02	7.7	7.7	7.7	7.7	38.2	1.8	-36.1	267.3	1336.3	171.6
64	ok	0.15	0.3	1.34e-02	7.7	7.7	7.7	7.7	52.0	3.2	-33.3	307.6	1510.8	119.0
73	ok	0.15	0.3	1.37e-02	7.7	7.7	7.7	7.7	55.8	2.8	-34.8	346.4	1683.0	86.6
82	ok	0.15	0.3	1.39e-02	7.7	7.7	7.7	7.7	56.4	2.1	-41.6	385.3	1860.4	57.6
91	ok	0.15	0.3	1.40e-02	7.7	7.7	7.7	7.7	52.3	1.4	-31.3	418.8	2030.0	62.1
100	ok	0.15	0.4	1.38e-02	7.7	7.7	7.7	7.7	53.1	1.7	-37.5	459.7	2239.8	-35.4
109	ok	0.15	0.4	1.34e-02	7.7	7.7	7.7	7.7	52.2	2.1	-42.8	499.7	2440.7	-54.5
118	ok	0.15	0.4	1.28e-02	7.7	7.7	7.7	7.7	47.5	2.5	-41.7	537.3	2644.8	-64.3
127	ok	0.15	0.4	1.19e-02	7.7	7.7	7.7	7.7	40.2	-3.7	-39.9	575.1	2849.8	-71.3
136	ok	0.15	0.5	1.08e-02	7.7	7.7	7.7	7.7	34.1	-4.6	-37.6	613.0	3054.3	-76.0
145	ok	0.15	0.5	9.52e-03	7.7	7.7	7.7	7.7	27.8	-5.5	-35.0	650.9	3258.1	-78.8
154	ok	0.15	0.5	8.49e-03	7.7	7.7	7.7	7.7	21.4	-6.5	-32.0	688.6	3461.3	-79.7
163	ok	0.15	0.5	7.40e-03	7.7	7.7	7.7	7.7	15.1	-7.5	-28.5	725.8	3664.1	-78.2
172	ok	0.15	0.6	6.17e-03	7.7	7.7	7.7	7.7	9.4	-8.6	-24.6	764.6	3867.7	-74.1
181	ok	0.15	0.6	4.81e-03	7.7	7.7	7.7	7.7	4.8	-9.5	-20.4	802.4	4073.4	-66.5
190	ok	0.15	0.6	3.57e-03	7.7	7.7	7.7	7.7	1.3	-11.8	-15.5	855.7	4292.3	-57.3

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 225 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
199	ok	0.15	0.7	3.19e-03	7.7	7.7	7.7	7.7	-11.1	-16.1	-4.2	943.5	4540.6	61.7
208	ok	0.15	0.7	7.83e-03	7.7	7.7	7.7	7.7	-12.9	-33.1	1.9	1001.3	4750.7	-35.6
235	ok	0.15	0.2	7.94e-03	7.7	7.7	7.7	7.7	31.0	53.5	32.8	299.1	1177.2	8.0
244	ok	0.15	0.3	9.20e-03	7.7	7.7	7.7	7.7	22.2	25.3	20.9	380.4	1989.2	7.4
253	ok	0.15	0.3	8.54e-03	7.7	7.7	7.7	7.7	25.1	11.1	21.1	514.5	2603.8	1.9
278	ok	0.15	0.5	7.37e-03	7.7	7.7	7.7	7.7	29.6	-5.0	16.8	704.3	3437.9	-5.5
287	ok	0.15	0.5	6.72e-03	7.7	7.7	7.7	7.7	29.7	-6.9	14.8	728.9	3541.7	-3.2
296	ok	0.15	0.5	6.03e-03	7.7	7.7	7.7	7.7	9.8	-8.9	-25.5	708.7	3508.7	152.3
321	ok	0.15	0.6	4.34e-03	7.7	7.7	7.7	7.7	2.8	-9.9	-19.1	793.0	3964.6	168.5
330	ok	0.15	0.6	4.10e-03	7.7	7.7	7.7	7.7	-2.2	-9.8	-8.8	821.7	4119.1	173.1
339	ok	0.15	0.6	4.00e-03	7.7	7.7	7.7	7.7	-2.7	-9.9	-6.1	853.7	4280.6	175.6
348	ok	0.15	0.7	3.94e-03	7.7	7.7	7.7	7.7	-1.7	-9.9	-3.6	886.0	4441.4	176.7
357	ok	0.15	0.7	3.84e-03	7.7	7.7	7.7	7.7	-2.2	-9.9	-1.3	917.7	4599.9	176.4
366	ok	0.15	0.7	3.95e-03	7.7	7.7	7.7	7.7	-2.0	-9.9	0.9	948.7	4756.4	174.6
383	ok	0.15	0.8	3.91e-03	7.7	7.7	7.7	7.7	1.55e-02	-10.0	11.0	1015.9	5075.1	168.8
392	ok	0.15	0.8	3.76e-03	7.7	7.7	7.7	7.7	1.7	-11.5	9.6	1058.1	5255.0	168.1
401	ok	0.15	0.8	3.58e-03	7.7	7.7	7.7	7.7	2.7	-11.9	11.4	1119.2	5481.2	187.7
410	ok	0.15	0.8	5.47e-03	7.7	7.7	7.7	7.7	-3.1	-26.7	-11.0	1155.8	5720.0	205.1
418	ok	0.15	0.7	3.98e-03	7.7	7.7	7.7	7.7	-1.4	-10.0	12.4	980.7	4913.1	171.5
420	ok	0.15	8.40e-02	6.42e-03	7.7	7.7	7.7	7.7	-9.5	-6.2	-0.4	555.3	85.8	269.7
421	ok	0.15	0.2	7.17e-03	7.7	7.7	7.7	7.7	-4.0	-6.6	-18.5	7.5	226.5	637.7
422	ok	0.15	0.1	7.69e-03	7.7	7.7	7.7	7.7	-10.0	-2.3	0.5	935.5	142.7	193.9
423	ok	0.15	0.2	7.78e-03	7.7	7.7	7.7	7.7	-7.8	-1.7	-5.1	-58.2	-272.0	510.5
424	ok	0.15	0.1	8.44e-03	7.7	7.7	7.7	7.7	-9.6	-7.82e-03	0.8	1116.7	170.3	92.6
425	ok	0.15	0.2	8.16e-03	7.7	7.7	7.7	7.7	7.8	13.7	-39.6	-19.7	-241.3	431.0
426	ok	0.15	0.1	8.95e-03	7.7	7.7	7.7	7.7	-8.8	2.7	2.0	1111.9	169.5	-36.0
427	ok	0.15	0.2	8.18e-03	7.7	7.7	7.7	7.7	6.9	18.7	-43.3	-105.4	-309.4	249.6
428	ok	0.15	0.1	9.09e-03	7.7	7.7	7.7	7.7	-7.5	6.8	2.6	931.9	144.3	-143.5
429	ok	0.15	0.2	8.06e-03	7.7	7.7	7.7	7.7	1.4	30.3	-6.1	-101.1	-311.9	-381.9
430	ok	0.15	0.1	9.08e-03	7.7	7.7	7.7	7.7	-5.4	12.8	2.8	614.1	107.9	-211.4
431	ok	0.15	0.2	7.67e-03	7.7	7.7	7.7	7.7	6.5	41.0	-12.9	-74.8	-108.4	-507.9
432	ok	0.15	0.2	8.19e-03	7.7	7.7	7.7	7.7	-2.7	20.8	1.9	248.8	94.6	-197.4
433	ok	0.15	0.2	7.38e-03	7.7	7.7	7.7	7.7	6.43e-02	5.5	43.0	76.3	417.2	-427.1
434	ok	0.15	0.2	8.18e-03	7.7	7.7	7.7	7.7	-8.5	0.3	-5.3	-186.6	-241.1	495.1
435	ok	0.15	0.2	8.02e-03	7.7	7.7	7.7	7.7	-4.9	5.2	-7.7	-375.1	-683.2	377.8
436	ok	0.15	0.2	7.93e-03	7.7	7.7	7.7	7.7	-6.7	0.5	-7.6	-461.2	-830.8	184.2
437	ok	0.15	0.2	7.72e-03	7.7	7.7	7.7	7.7	2.6	15.3	-11.0	-488.9	-845.9	-156.0
438	ok	0.15	0.2	7.78e-03	7.7	7.7	7.7	7.7	7.6	20.6	-15.3	-403.6	-633.1	-370.8
439	ok	0.15	0.2	8.15e-03	7.7	7.7	7.7	7.7	-2.4	3.8	-8.4	-249.6	-244.0	-429.8
440	ok	0.15	0.2	8.40e-03	7.7	7.7	7.7	7.7	1.0	4.5	39.3	99.8	734.8	-403.2
441	ok	0.15	0.2	9.21e-03	7.7	7.7	7.7	7.7	-5.1	1.5	-9.8	-209.1	-342.7	367.4
442	ok	0.15	0.2	8.30e-03	7.7	7.7	7.7	7.7	-1.3	4.7	-12.9	-444.9	-952.9	275.8
443	ok	0.15	0.2	7.85e-03	7.7	7.7	7.7	7.7	-6.4	-8.22e-03	-8.8	-569.0	-1176.8	135.0
444	ok	0.15	0.3	7.54e-03	7.7	7.7	7.7	7.7	6.8	9.7	-15.8	-568.8	-1175.2	-133.1
445	ok	0.15	0.2	7.55e-03	7.7	7.7	7.7	7.7	-4.1	0.8	-8.8	-480.1	-896.5	-235.0
446	ok	0.15	0.2	7.94e-03	7.7	7.7	7.7	7.7	-2.9	0.7	-8.5	-260.7	-292.1	-316.2
447	ok	0.15	0.2	8.19e-03	7.7	7.7	7.7	7.7	0.9	0.5	36.0	166.5	1045.4	-332.6
448	ok	0.15	0.2	1.01e-02	7.7	7.7	7.7	7.7	-43.7	-5.6	25.6	-236.0	-748.8	-37.9
449	ok	0.15	0.2	8.57e-03	7.7	7.7	7.7	7.7	2.2	4.0	-15.8	-432.1	-1136.6	182.0
450	ok	0.15	0.2	7.96e-03	7.7	7.7	7.7	7.7	-6.4	-0.4	-9.2	-559.4	-1410.2	91.0
451	ok	0.15	0.3	7.53e-03	7.7	7.7	7.7	7.7	10.2	6.6	-21.1	-549.7	-1403.8	-86.9
452	ok	0.15	0.2	7.19e-03	7.7	7.7	7.7	7.7	-4.5	-0.7	-8.7	-451.7	-1047.9	-160.8
453	ok	0.15	0.2	7.63e-03	7.7	7.7	7.7	7.7	10.3	5.3	-53.0	-240.7	-598.3	89.8
454	ok	0.15	0.2	8.01e-03	7.7	7.7	7.7	7.7	0.4	-1.7	32.8	236.5	1328.6	-287.0
455	ok	0.15	0.2	1.07e-02	7.7	7.7	7.7	7.7	-49.9	-5.1	25.4	-251.7	-923.0	-72.5
456	ok	0.15	0.2	8.90e-03	7.7	7.7	7.7	7.7	-37.9	-3.0	25.6	-384.9	-1420.5	-147.3
457	ok	0.15	0.2	8.09e-03	7.7	7.7	7.7	7.7	8.7	3.9	-19.5	-506.9	-1602.5	25.4
458	ok	0.15	0.3	7.49e-03	7.7	7.7	7.7	7.7	12.5	3.9	-21.2	-495.0	-1541.9	-64.3
459	ok	0.15	0.3	6.91e-03	7.7	7.7	7.7	7.7	13.5	4.4	-48.7	-361.7	-1082.4	211.5
460	ok	0.15	0.2	7.15e-03	7.7	7.7	7.7	7.7	11.1	3.4	-49.7	-219.3	-688.9	152.5
461	ok	0.15	0.2	7.56e-03	7.7	7.7	7.7	7.7	-0.2	-3.8	29.7	298.0	1570.8	-259.4
462	ok	0.15	0.2	1.11e-02	7.7	7.7	7.7	7.7	-53.0	-4.5	16.6	-275.2	-1114.1	-93.1
463	ok	0.15	0.3	9.22e-03	7.7	7.7	7.7	7.7	-41.6	-2.6	25.7	-393.1	-1612.4	-168.0
464	ok	0.15	0.3	8.17e-03	7.7	7.7	7.7	7.7	-32.3	-4.2	26.4	-400.0	-1549.2	-271.2
465	ok	0.15	0.3	7.40e-03	7.7	7.7	7.7	7.7	-6.5	-1.3	-8.1	-465.7	-1633.8	-15.1
466	ok	0.15	0.3	6.72e-03	7.7	7.7	7.7	7.7	14.8	3.4	-45.3	-328.7	-1155.3	241.2
467	ok	0.15	0.2	6.57e-03	7.7	7.7	7.7	7.7	17.3	2.7	-36.6	-196.4	-768.7	213.0
468	ok	0.15	0.3	7.01e-03	7.7	7.7	7.7	7.7	-0.9	-5.0	26.8	349.1	1777.9	-240.8
469	ok	0.15	0.3	1.14e-02	7.7	7.7	7.7	7.7	-56.4	-3.8	25.4	-294.0	-1269.8	-116.1

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 226 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
470	ok	0.15	0.3	9.40e-03	7.7	7.7	7.7	7.7	-44.1	-2.1	25.7	-408.0	-1793.1	-178.7
471	ok	0.15	0.3	8.17e-03	7.7	7.7	7.7	7.7	-34.5	-3.9	25.5	-394.5	-1677.0	-271.9
472	ok	0.15	0.3	7.26e-03	7.7	7.7	7.7	7.7	-7.1	-1.6	-7.3	-426.2	-1681.2	-3.3
473	ok	0.15	0.3	6.52e-03	7.7	7.7	7.7	7.7	19.8	3.2	-39.0	-283.6	-1211.9	281.5
474	ok	0.15	0.2	5.99e-03	7.7	7.7	7.7	7.7	17.0	2.0	-32.2	-195.5	-855.6	242.4
475	ok	0.15	0.3	6.38e-03	7.7	7.7	7.7	7.7	-1.8	-6.0	24.0	391.2	1958.4	-230.9
476	ok	0.15	0.3	1.15e-02	7.7	7.7	7.7	7.7	-57.4	-3.2	25.4	-320.3	-1440.9	-124.9
477	ok	0.15	0.3	9.43e-03	7.7	7.7	7.7	7.7	-45.3	-1.9	25.8	-428.7	-1967.4	-182.8
478	ok	0.15	0.3	8.08e-03	7.7	7.7	7.7	7.7	-32.8	-3.0	16.4	-402.2	-1810.3	-256.0
479	ok	0.15	0.3	7.07e-03	7.7	7.7	7.7	7.7	-7.7	-1.9	-6.5	-399.2	-1706.6	5.5
480	ok	0.15	0.3	6.28e-03	7.7	7.7	7.7	7.7	19.8	2.6	-35.1	-276.0	-1256.0	297.7
481	ok	0.15	0.2	5.67e-03	7.7	7.7	7.7	7.7	16.2	1.6	-27.9	-201.3	-943.3	261.7
482	ok	0.15	0.3	5.72e-03	7.7	7.7	7.7	7.7	-2.9	-6.7	21.5	426.3	2120.9	-226.4
483	ok	0.15	0.3	1.14e-02	7.7	7.7	7.7	7.7	-52.4	-2.0	15.6	-350.5	-1621.2	-126.6
484	ok	0.15	0.3	9.42e-03	7.7	7.7	7.7	7.7	-45.3	-2.1	25.7	-454.1	-2139.5	-183.4
485	ok	0.15	0.3	7.97e-03	7.7	7.7	7.7	7.7	-32.9	-2.6	21.1	-411.3	-1922.9	-253.7
486	ok	0.15	0.3	6.82e-03	7.7	7.7	7.7	7.7	-8.3	-2.4	-5.6	-382.3	-1719.1	11.5
487	ok	0.15	0.3	5.81e-03	7.7	7.7	7.7	7.7	18.8	2.0	-25.7	-280.2	-1293.3	308.2
488	ok	0.15	0.2	5.35e-03	7.7	7.7	7.7	7.7	15.5	1.4	-29.5	-219.9	-1033.0	272.6
489	ok	0.15	0.3	5.09e-03	7.7	7.7	7.7	7.7	-3.9	-7.3	24.8	457.6	2272.9	-223.5
490	ok	0.15	0.4	1.11e-02	7.7	7.7	7.7	7.7	-52.6	-1.9	20.7	-380.2	-1785.2	-132.9
491	ok	0.15	0.4	9.27e-03	7.7	7.7	7.7	7.7	-44.4	-2.8	25.5	-483.0	-2311.4	-182.3
492	ok	0.15	0.3	7.75e-03	7.7	7.7	7.7	7.7	-32.8	-2.5	20.0	-426.5	-2034.5	-249.2
493	ok	0.15	0.3	6.54e-03	7.7	7.7	7.7	7.7	-8.8	-2.9	-4.8	-372.4	-1724.4	15.4
494	ok	0.15	0.3	5.48e-03	7.7	7.7	7.7	7.7	18.2	1.6	-27.5	-281.8	-1329.0	314.1
495	ok	0.15	0.2	5.03e-03	7.7	7.7	7.7	7.7	14.3	1.1	-25.5	-233.6	-1124.0	280.8
496	ok	0.15	0.4	4.78e-03	7.7	7.7	7.7	7.7	-9.5	-7.5	14.9	482.6	2411.4	-226.6
497	ok	0.15	0.4	1.06e-02	7.7	7.7	7.7	7.7	-53.3	-2.1	24.6	-411.1	-1954.1	-132.8
498	ok	0.15	0.4	8.98e-03	7.7	7.7	7.7	7.7	-42.6	-3.5	25.0	-514.4	-2483.3	-181.0
499	ok	0.15	0.3	7.42e-03	7.7	7.7	7.7	7.7	-34.1	-2.9	21.5	-444.8	-2146.1	-257.5
500	ok	0.15	0.3	6.17e-03	7.7	7.7	7.7	7.7	-25.1	-3.5	13.7	-323.6	-1542.1	-308.5
501	ok	0.15	0.3	5.13e-03	7.7	7.7	7.7	7.7	16.8	1.1	-24.0	-282.7	-1363.1	317.4
502	ok	0.15	0.2	4.67e-03	7.7	7.7	7.7	7.7	12.8	1.1	-21.9	-249.4	-1216.0	285.7
503	ok	0.15	0.4	4.45e-03	7.7	7.7	7.7	7.7	-9.8	-8.1	11.9	511.5	2569.3	-228.1
504	ok	0.15	0.4	1.01e-02	7.7	7.7	7.7	7.7	-48.5	-2.5	24.1	-442.8	-2125.4	-133.8
505	ok	0.15	0.4	8.37e-03	7.7	7.7	7.7	7.7	-39.1	1.5	24.3	-546.7	-2654.7	-179.9
506	ok	0.15	0.4	7.00e-03	7.7	7.7	7.7	7.7	-32.2	-3.3	20.3	-468.2	-2272.0	-254.5
507	ok	0.15	0.3	5.73e-03	7.7	7.7	7.7	7.7	-22.8	-3.2	12.4	-335.9	-1615.5	-305.1
508	ok	0.15	0.3	4.74e-03	7.7	7.7	7.7	7.7	15.2	0.7	-20.8	-286.0	-1398.3	319.1
509	ok	0.15	0.2	4.30e-03	7.7	7.7	7.7	7.7	11.2	1.1	-18.6	-266.2	-1308.3	288.5
510	ok	0.15	0.4	4.10e-03	7.7	7.7	7.7	7.7	-9.8	-8.5	9.1	542.1	2730.4	-229.7
511	ok	0.15	0.5	9.43e-03	7.7	7.7	7.7	7.7	-44.0	-3.2	23.5	-474.5	-2296.3	-134.9
512	ok	0.15	0.4	7.78e-03	7.7	7.7	7.7	7.7	-35.7	2.2	23.5	-579.3	-2825.4	-179.3
513	ok	0.15	0.4	6.37e-03	7.7	7.7	7.7	7.7	-28.9	-0.1	18.9	-492.7	-2399.5	-252.4
514	ok	0.15	0.3	5.24e-03	7.7	7.7	7.7	7.7	-20.5	-3.3	11.0	-350.7	-1693.8	-302.8
515	ok	0.15	0.3	4.30e-03	7.7	7.7	7.7	7.7	13.4	0.4	-17.8	-291.1	-1435.9	319.7
516	ok	0.15	0.2	3.88e-03	7.7	7.7	7.7	7.7	9.6	1.2	-15.6	-283.4	-1400.7	290.1
517	ok	0.15	0.4	3.79e-03	7.7	7.7	7.7	7.7	-9.4	-8.9	6.4	573.8	2891.9	-230.5
518	ok	0.15	0.5	8.44e-03	7.7	7.7	7.7	7.7	-38.8	2.6	22.7	-506.0	-2466.5	-136.0
519	ok	0.15	0.5	7.07e-03	7.7	7.7	7.7	7.7	-31.6	2.8	22.4	-611.7	-2995.4	-179.4
520	ok	0.15	0.4	5.74e-03	7.7	7.7	7.7	7.7	-22.3	1.1	13.5	-518.0	-2527.5	-251.1
521	ok	0.15	0.3	4.69e-03	7.7	7.7	7.7	7.7	-20.5	-3.4	12.5	-365.6	-1774.4	-301.6
522	ok	0.15	0.3	3.92e-03	7.7	7.7	7.7	7.7	10.8	0.2	-15.1	-298.1	-1478.4	316.8
523	ok	0.15	0.3	3.85e-03	7.7	7.7	7.7	7.7	7.6	1.3	-12.9	-300.8	-1493.3	290.6
524	ok	0.15	0.5	3.85e-03	7.7	7.7	7.7	7.7	-8.1	-9.2	3.9	605.6	3052.9	-230.2
525	ok	0.15	0.5	7.55e-03	7.7	7.7	7.7	7.7	-32.9	3.5	21.6	-537.1	-2636.2	-137.1
526	ok	0.15	0.5	6.11e-03	7.7	7.7	7.7	7.7	-22.5	4.4	17.4	-642.8	-3164.3	-181.3
527	ok	0.15	0.4	4.88e-03	7.7	7.7	7.7	7.7	-18.5	1.9	12.3	-543.2	-2655.2	-251.3
528	ok	0.15	0.3	4.05e-03	7.7	7.7	7.7	7.7	-17.7	-0.8	10.7	-382.2	-1856.1	-300.7
529	ok	0.15	0.3	3.77e-03	7.7	7.7	7.7	7.7	9.3	6.82e-02	-12.5	-305.2	-1520.3	316.1
530	ok	0.15	0.3	3.87e-03	7.7	7.7	7.7	7.7	6.2	1.6	-10.5	-318.2	-1585.9	290.3
531	ok	0.15	0.5	3.99e-03	7.7	7.7	7.7	7.7	-7.4	-9.4	1.6	637.2	3213.0	-228.6
532	ok	0.15	0.6	6.59e-03	7.7	7.7	7.7	7.7	-26.7	4.4	20.3	-567.6	-2805.8	-137.7
533	ok	0.15	0.5	5.26e-03	7.7	7.7	7.7	7.7	-17.5	5.2	16.1	-675.0	-3333.3	-182.8
534	ok	0.15	0.4	4.14e-03	7.7	7.7	7.7	7.7	-14.5	2.8	10.8	-567.7	-2782.0	-252.4
535	ok	0.15	0.3	3.48e-03	7.7	7.7	7.7	7.7	-14.6	-2.97e-02	8.9	-398.1	-1937.1	-300.7
536	ok	0.15	0.3	3.52e-03	7.7	7.7	7.7	7.7	5.7	-0.4	3.8	-312.9	-1564.0	313.9
537	ok	0.15	0.3	3.78e-03	7.7	7.7	7.7	7.7	3.3	1.5	3.5	-336.2	-1678.9	287.9
538	ok	0.15	0.5	4.04e-03	7.7	7.7	7.7	7.7	-6.2	-9.6	-0.4	668.8	3372.6	-226.3

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 227 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
539	ok	0.15	0.6	5.51e-03	7.7	7.7	7.7	7.7	-20.1	5.5	18.5	-596.8	-2975.5	-138.0
540	ok	0.15	0.5	4.32e-03	7.7	7.7	7.7	7.7	-12.5	6.2	14.4	-706.7	-3502.2	-185.0
541	ok	0.15	0.5	3.34e-03	7.7	7.7	7.7	7.7	-10.7	3.9	9.2	-591.2	-2906.8	-253.2
542	ok	0.15	0.3	3.06e-03	7.7	7.7	7.7	7.7	-11.3	1.0	7.1	-369.2	-2016.1	-300.9
543	ok	0.15	0.3	3.21e-03	7.7	7.7	7.7	7.7	4.0	-0.4	2.5	-322.0	-1609.4	310.4
544	ok	0.15	0.3	3.58e-03	7.7	7.7	7.7	7.7	2.2	1.9	2.2	-356.2	-1772.8	284.7
545	ok	0.15	0.5	3.98e-03	7.7	7.7	7.7	7.7	-3.8	-9.6	-10.1	705.1	3533.8	-222.1
546	ok	0.15	0.6	4.31e-03	7.7	7.7	7.7	7.7	5.7	-10.2	-21.7	651.2	3255.9	67.3
547	ok	0.15	0.6	3.38e-03	7.7	7.7	7.7	7.7	-8.0	7.6	12.1	-740.1	-3671.4	-187.4
548	ok	0.15	0.5	2.70e-03	7.7	7.7	7.7	7.7	-7.3	5.4	7.4	-609.0	-3025.7	-252.0
549	ok	0.15	0.3	2.58e-03	7.7	7.7	7.7	7.7	-8.1	2.5	5.4	-369.6	-2090.1	-298.5
550	ok	0.15	0.3	2.90e-03	7.7	7.7	7.7	7.7	2.3	-0.2	1.5	-332.9	-1655.0	304.6
551	ok	0.15	0.3	3.31e-03	7.7	7.7	7.7	7.7	1.1	2.4	1.6	-380.5	-1867.1	281.9
552	ok	0.15	0.6	3.76e-03	7.7	7.7	7.7	7.7	-2.1	-9.5	-9.4	746.6	3699.7	-225.1
553	ok	0.15	0.7	3.84e-03	7.7	7.7	7.7	7.7	-2.7	11.5	14.5	-853.8	-4252.9	-63.6
554	ok	0.15	0.6	3.14e-03	7.7	7.7	7.7	7.7	-6.6	9.4	12.1	-757.0	-3834.8	-186.9
555	ok	0.15	0.5	2.62e-03	7.7	7.7	7.7	7.7	-6.2	7.8	7.9	-610.9	-3129.5	-249.0
556	ok	0.15	0.3	2.34e-03	7.7	7.7	7.7	7.7	-5.1	4.7	4.1	-406.5	-2156.6	-289.7
557	ok	0.15	0.3	2.52e-03	7.7	7.7	7.7	7.7	0.3	0.3	0.8	-328.9	-1687.6	296.3
558	ok	0.15	0.3	3.06e-03	7.7	7.7	7.7	7.7	-0.6	3.0	1.4	-405.7	-1962.1	275.3
559	ok	0.15	0.6	3.62e-03	7.7	7.7	7.7	7.7	-0.7	-10.5	-9.0	811.6	3880.7	-239.1
560	ok	0.15	0.7	3.32e-03	7.7	7.7	7.7	7.7	-0.9	12.9	13.1	-886.3	-4507.9	-78.7
561	ok	0.15	0.6	3.22e-03	7.7	7.7	7.7	7.7	-3.4	15.3	8.5	-748.9	-3965.5	-168.1
562	ok	0.15	0.5	2.73e-03	7.7	7.7	7.7	7.7	-3.4	11.8	6.5	-572.2	-3220.6	-228.5
563	ok	0.15	0.4	2.63e-03	7.7	7.7	7.7	7.7	-2.4	7.3	3.5	-370.3	-2228.6	-284.4
564	ok	0.15	0.3	2.73e-03	7.7	7.7	7.7	7.7	0.8	0.8	1.3	-308.4	-1714.4	279.6
565	ok	0.15	0.3	2.88e-03	7.7	7.7	7.7	7.7	-1.1	-8.4	-6.6	455.6	1945.8	-311.8
566	ok	0.15	0.6	3.32e-03	7.7	7.7	7.7	7.7	4.1	-9.5	-6.6	866.1	4080.7	-263.9
567	ok	0.15	0.8	4.95e-03	7.7	7.7	7.7	7.7	1.2	-29.9	-4.8	797.7	3913.1	133.1
568	ok	0.15	0.7	3.40e-03	7.7	7.7	7.7	7.7	-2.1	19.8	7.5	-597.2	-4092.6	-113.2
569	ok	0.15	0.5	2.85e-03	7.7	7.7	7.7	7.7	-1.4	14.0	6.0	-444.7	-3380.9	-245.3
570	ok	0.15	0.4	3.29e-03	7.7	7.7	7.7	7.7	-0.3	10.3	3.2	-285.4	-2324.7	-341.1
571	ok	0.15	0.3	3.62e-03	7.7	7.7	7.7	7.7	-0.4	-3.5	1.2	-253.2	-1785.3	280.9
572	ok	0.15	0.3	3.85e-03	7.7	7.7	7.7	7.7	1.0	-7.9	-4.6	412.3	2006.9	-318.4
573	ok	0.15	0.6	4.60e-03	7.7	7.7	7.7	7.7	0.3	-24.5	-7.5	873.2	4244.9	-285.3
574	ok	0.15	0.7	2.24e-03	7.7	7.7	7.7	7.7	6.0	15.3	1.2	433.5	3788.8	34.6
575	ok	0.15	0.7	3.25e-03	7.7	7.7	7.7	7.7	-2.5	11.0	5.2	-262.2	-4409.5	-120.4
576	ok	0.15	0.6	4.12e-03	7.7	7.7	7.7	7.7	-0.1	17.0	4.0	-175.8	-3538.6	-303.4
577	ok	0.15	0.4	4.77e-03	7.7	7.7	7.7	7.7	0.9	16.3	2.7	-113.5	-2433.2	-421.9
578	ok	0.15	0.3	5.20e-03	7.7	7.7	7.7	7.7	-0.6	-9.3	1.1	-116.8	-1883.0	304.1
579	ok	0.15	0.4	5.36e-03	7.7	7.7	7.7	7.7	2.0	5.3	0.2	284.7	2226.1	-448.8
580	ok	0.15	0.7	4.90e-03	7.7	7.7	7.7	7.7	6.1	11.3	-2.3	345.6	4215.5	-152.5
638	ok	0.15	0.3	1.46e-02	7.7	7.7	7.7	7.7	61.5	2.6	28.1	330.0	1596.6	-113.0
640	ok	0.15	0.4	1.48e-02	7.7	7.7	7.7	7.7	55.9	0.9	34.3	485.3	2345.1	-43.9
641	ok	0.15	3.46e-02	4.36e-03	7.7	7.7	7.7	7.7	3.3	-3.8	11.6	95.0	120.7	-194.1
642	ok	0.15	0.2	1.39e-02	7.7	7.7	7.7	7.7	49.5	1.5	32.4	289.1	1409.6	-162.2
643	ok	0.15	0.8	2.31e-03	7.7	7.7	7.7	7.7	-2.8	19.4	19.6	532.0	4719.1	49.4
644	ok	0.15	0.4	1.43e-02	7.7	7.7	7.7	7.7	57.1	1.7	40.7	522.9	2542.6	54.8
664	ok	0.15	9.98e-02	7.45e-03	7.7	7.7	7.7	7.7	24.1	-3.2	18.8	130.6	563.1	-314.8
673	ok	0.15	0.1	1.05e-02	7.7	7.7	7.7	7.7	22.7	-2.6	26.4	191.9	930.9	-285.3
682	ok	0.15	0.2	1.26e-02	7.7	7.7	7.7	7.7	38.6	-0.3	29.8	240.4	1194.8	-226.0
707	ok	0.15	0.3	1.49e-02	7.7	7.7	7.7	7.7	64.1	2.2	30.1	369.9	1777.8	-82.6
716	ok	0.15	0.3	1.50e-02	7.7	7.7	7.7	7.7	64.5	1.6	38.2	409.8	1961.0	-54.8
725	ok	0.15	0.4	1.50e-02	7.7	7.7	7.7	7.7	56.5	0.8	27.7	445.4	2148.2	-58.6
750	ok	0.15	0.4	1.36e-02	7.7	7.7	7.7	7.7	51.1	2.2	39.9	559.2	2743.8	63.7
759	ok	0.15	0.5	1.26e-02	7.7	7.7	7.7	7.7	44.8	-4.2	38.5	595.8	2945.2	70.3
768	ok	0.15	0.5	1.14e-02	7.7	7.7	7.7	7.7	37.1	-5.1	36.5	632.8	3145.7	74.9
777	ok	0.15	0.5	1.02e-02	7.7	7.7	7.7	7.7	30.4	-6.0	34.1	669.7	3345.2	77.8
786	ok	0.15	0.5	8.80e-03	7.7	7.7	7.7	7.7	23.5	-7.0	31.4	706.3	3544.0	79.0
795	ok	0.15	0.6	7.62e-03	7.7	7.7	7.7	7.7	16.8	-8.0	28.2	742.3	3742.3	77.8
812	ok	0.15	0.6	5.00e-03	7.7	7.7	7.7	7.7	5.5	-10.0	20.2	816.5	4143.3	66.9
821	ok	0.15	0.6	3.88e-03	7.7	7.7	7.7	7.7	1.7	-12.4	15.4	869.0	4359.1	58.1
830	ok	0.15	0.7	3.25e-03	7.7	7.7	7.7	7.7	-11.3	-16.7	4.1	957.3	4605.4	-60.2
839	ok	0.15	0.7	7.95e-03	7.7	7.7	7.7	7.7	-13.1	-33.9	-2.1	1013.6	4813.4	37.6
847	ok	0.15	0.6	6.36e-03	7.7	7.7	7.7	7.7	10.5	-9.1	24.3	779.8	3941.5	74.0
849	ok	0.15	0.2	6.77e-03	7.7	7.7	7.7	7.7	-2.5	19.9	-3.8	240.4	92.7	192.7
850	ok	0.15	0.2	8.23e-03	7.7	7.7	7.7	7.7	4.3	25.3	-40.1	61.3	318.5	471.9
851	ok	0.15	0.2	8.10e-03	7.7	7.7	7.7	7.7	-5.3	10.9	-4.3	603.1	104.4	207.9
852	ok	0.15	0.2	8.93e-03	7.7	7.7	7.7	7.7	4.1	39.9	8.1	-103.6	-102.1	591.1

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 228 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
853	ok	0.15	0.1	8.37e-03	7.7	7.7	7.7	7.7	-7.5	4.1	-3.6	920.3	140.2	142.2
854	ok	0.15	0.2	8.98e-03	7.7	7.7	7.7	7.7	0.4	27.0	5.5	-109.6	-317.3	376.3
855	ok	0.15	0.1	8.32e-03	7.7	7.7	7.7	7.7	-8.8	-0.2	-2.5	1098.8	165.0	37.5
856	ok	0.15	0.2	8.67e-03	7.7	7.7	7.7	7.7	-8.9	9.7	-36.9	-32.0	-296.0	425.7
857	ok	0.15	0.1	8.25e-03	7.7	7.7	7.7	7.7	-9.5	-2.7	-0.7	1100.1	165.2	-88.5
858	ok	0.15	0.2	8.07e-03	7.7	7.7	7.7	7.7	7.2	3.1	35.5	-35.0	-210.1	-443.3
859	ok	0.15	0.1	7.51e-03	7.7	7.7	7.7	7.7	-9.7	-4.3	-5.70e-02	915.1	137.3	-188.4
860	ok	0.15	0.2	7.58e-03	7.7	7.7	7.7	7.7	-10.1	-2.1	1.8	-44.3	-262.2	-463.0
861	ok	0.15	8.25e-02	6.26e-03	7.7	7.7	7.7	7.7	-10.5	-7.9	2.4	489.4	102.8	-280.5
862	ok	0.15	0.1	7.19e-03	7.7	7.7	7.7	7.7	13.9	-5.9	17.8	63.2	254.9	-573.7
863	ok	0.15	0.1	8.92e-03	7.7	7.7	7.7	7.7	5.4	12.9	-39.8	91.9	648.4	437.7
864	ok	0.15	0.2	8.74e-03	7.7	7.7	7.7	7.7	-3.2	2.7	7.5	-250.5	-226.7	412.8
865	ok	0.15	0.2	8.39e-03	7.7	7.7	7.7	7.7	6.5	19.4	15.0	-403.5	-630.4	364.4
866	ok	0.15	0.2	7.64e-03	7.7	7.7	7.7	7.7	1.5	14.1	10.5	-488.9	-843.5	154.3
867	ok	0.15	0.2	7.64e-03	7.7	7.7	7.7	7.7	-7.0	-6.21e-02	6.9	-460.2	-821.7	-180.3
868	ok	0.15	0.2	7.73e-03	7.7	7.7	7.7	7.7	-4.6	4.3	6.6	-371.5	-674.9	-370.2
869	ok	0.15	0.2	8.34e-03	7.7	7.7	7.7	7.7	-38.8	-1.8	-13.0	-207.0	-635.6	-197.5
870	ok	0.15	0.2	8.39e-03	7.7	7.7	7.7	7.7	5.7	5.7	-36.4	151.3	941.5	375.6
871	ok	0.15	0.2	8.14e-03	7.7	7.7	7.7	7.7	-3.7	0.2	7.6	-259.8	-269.3	304.0
872	ok	0.15	0.2	7.65e-03	7.7	7.7	7.7	7.7	-4.8	0.3	7.9	-476.3	-882.1	230.8
873	ok	0.15	0.2	7.02e-03	7.7	7.7	7.7	7.7	6.0	9.3	15.3	-563.5	-1164.7	131.8
874	ok	0.15	0.2	7.50e-03	7.7	7.7	7.7	7.7	-6.6	-0.2	7.8	-563.1	-1159.5	-130.3
875	ok	0.15	0.2	8.02e-03	7.7	7.7	7.7	7.7	-0.7	4.3	11.3	-437.7	-935.3	-267.5
876	ok	0.15	0.2	9.60e-03	7.7	7.7	7.7	7.7	-38.7	-2.3	-18.4	-259.1	-853.2	-123.1
877	ok	0.15	0.2	7.94e-03	7.7	7.7	7.7	7.7	6.0	0.3	-27.4	212.9	1190.6	328.5
878	ok	0.15	0.2	7.51e-03	7.7	7.7	7.7	7.7	5.8	3.1	47.7	-227.7	-480.9	-148.2
879	ok	0.15	0.2	6.96e-03	7.7	7.7	7.7	7.7	-5.1	-0.9	7.7	-444.5	-1026.9	157.5
880	ok	0.15	0.3	6.94e-03	7.7	7.7	7.7	7.7	9.7	6.4	20.1	-541.5	-1386.2	84.8
881	ok	0.15	0.2	7.60e-03	7.7	7.7	7.7	7.7	6.0	5.3	17.2	-545.5	-1429.1	-50.3
882	ok	0.15	0.2	8.41e-03	7.7	7.7	7.7	7.7	-35.5	-2.4	-22.8	-387.4	-1234.0	124.9
883	ok	0.15	0.2	1.07e-02	7.7	7.7	7.7	7.7	-48.0	-2.6	-19.1	-285.2	-1068.9	-48.4
884	ok	0.15	0.2	7.33e-03	7.7	7.7	7.7	7.7	5.2	-3.3	-24.5	268.0	1396.5	297.1
885	ok	0.15	0.2	6.84e-03	7.7	7.7	7.7	7.7	-2.3	-4.1	-24.6	63.7	530.3	362.4
886	ok	0.15	0.2	6.23e-03	7.7	7.7	7.7	7.7	10.3	4.0	44.6	-359.4	-1089.4	-230.4
887	ok	0.15	0.3	6.89e-03	7.7	7.7	7.7	7.7	12.5	3.8	20.3	-485.0	-1517.9	62.5
888	ok	0.15	0.2	7.72e-03	7.7	7.7	7.7	7.7	-30.0	-4.0	-23.9	-414.5	-1412.5	279.5
889	ok	0.15	0.2	8.85e-03	7.7	7.7	7.7	7.7	-40.9	-2.7	-22.1	-390.6	-1445.1	161.7
890	ok	0.15	0.2	1.14e-02	7.7	7.7	7.7	7.7	-59.1	-2.2	-13.8	-314.2	-1288.5	7.5
891	ok	0.15	0.3	6.69e-03	7.7	7.7	7.7	7.7	4.1	-5.7	-22.0	312.3	1567.0	279.1
892	ok	0.15	0.2	6.14e-03	7.7	7.7	7.7	7.7	-3.8	-6.5	-21.8	110.5	658.2	335.4
893	ok	0.15	0.3	6.01e-03	7.7	7.7	7.7	7.7	11.8	4.0	41.0	-325.9	-1161.4	-262.7
894	ok	0.15	0.3	6.83e-03	7.7	7.7	7.7	7.7	-6.8	-1.6	7.0	-453.3	-1599.3	17.2
895	ok	0.15	0.3	7.83e-03	7.7	7.7	7.7	7.7	-33.3	-4.5	-22.7	-399.0	-1558.2	283.9
896	ok	0.15	0.3	9.24e-03	7.7	7.7	7.7	7.7	-44.8	-2.7	-22.0	-398.1	-1637.3	181.5
897	ok	0.15	0.2	1.18e-02	7.7	7.7	7.7	7.7	-61.1	-2.3	-15.3	-346.9	-1509.8	41.5
898	ok	0.15	0.3	6.02e-03	7.7	7.7	7.7	7.7	2.6	-8.3	-21.1	421.6	2084.2	228.0
899	ok	0.15	0.2	5.47e-03	7.7	7.7	7.7	7.7	-4.5	-7.8	-25.4	150.7	778.6	316.3
900	ok	0.15	0.3	5.80e-03	7.7	7.7	7.7	7.7	12.8	3.9	37.6	-302.6	-1215.8	-285.0
901	ok	0.15	0.3	6.75e-03	7.7	7.7	7.7	7.7	-7.4	-2.0	6.3	-413.0	-1641.9	5.7
902	ok	0.15	0.3	7.89e-03	7.7	7.7	7.7	7.7	-35.6	-4.5	-21.8	-393.1	-1684.7	283.1
903	ok	0.15	0.3	9.51e-03	7.7	7.7	7.7	7.7	-42.4	-1.9	-18.3	-416.4	-1838.1	191.6
904	ok	0.15	0.3	1.20e-02	7.7	7.7	7.7	7.7	-61.5	-2.8	-17.0	-382.5	-1731.0	62.8
905	ok	0.15	0.3	5.37e-03	7.7	7.7	7.7	7.7	1.7	-9.4	-24.9	458.8	2253.6	222.3
906	ok	0.15	0.2	5.10e-03	7.7	7.7	7.7	7.7	-6.0	-8.7	-23.0	180.5	891.1	306.9
907	ok	0.15	0.3	5.64e-03	7.7	7.7	7.7	7.7	13.4	3.7	34.3	-288.8	-1260.3	-299.2
908	ok	0.15	0.3	6.64e-03	7.7	7.7	7.7	7.7	-8.1	-2.4	5.6	-386.1	-1663.0	-3.1
909	ok	0.15	0.3	7.88e-03	7.7	7.7	7.7	7.7	-33.0	-3.6	-12.6	-401.0	-1818.9	277.7
910	ok	0.15	0.3	9.60e-03	7.7	7.7	7.7	7.7	-43.6	-1.8	-18.4	-436.9	-2011.4	194.4
911	ok	0.15	0.3	1.21e-02	7.7	7.7	7.7	7.7	-55.6	2.7	-12.8	-420.2	-1950.0	76.4
912	ok	0.15	0.3	4.77e-03	7.7	7.7	7.7	7.7	2.38e-02	-10.1	-22.7	489.5	2409.6	221.8
913	ok	0.15	0.2	4.87e-03	7.7	7.7	7.7	7.7	-7.5	-9.3	-20.8	203.9	996.7	301.4
914	ok	0.15	0.3	5.46e-03	7.7	7.7	7.7	7.7	13.5	3.3	31.1	-282.5	-1299.6	-307.5
915	ok	0.15	0.3	6.48e-03	7.7	7.7	7.7	7.7	-8.8	-2.9	4.8	-369.4	-1672.7	-8.8
916	ok	0.15	0.3	7.79e-03	7.7	7.7	7.7	7.7	-33.2	-3.3	-17.9	-410.7	-1931.6	275.1
...														
1009	ok	0.15	0.7	2.34e-03	7.7	7.7	7.7	7.7	-8.9	-10.6	0.2	-370.3	-4656.3	-221.3
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									-61.50	-33.91	-53.02	-891.54	-4716.45	-573.74
		0.15	0.87	0.02	7.70	7.70	7.70	7.70	64.52	197.32	47.71	1155.76	5720.03	637.67

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 229 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
3	ok	1.48						
6	ok	1.52						
7	ok	0.30						
8	ok	0.70						
9	ok	1.44						
10	ok	1.50						
11	ok	1.95						
12	ok	1.52						
28	ok	0.62						
37	ok	0.82						
46	ok	0.94						
55	ok	0.99						
64	ok	1.01						
73	ok	1.01						
82	ok	1.02						
91	ok	1.04						
100	ok	1.07						
109	ok	1.09						
118	ok	1.12						
127	ok	1.16						
136	ok	1.19						
145	ok	1.23						
154	ok	1.26						
163	ok	1.30						
172	ok	1.34						
181	ok	1.38						
190	ok	1.45						
199	ok	1.71						
208	ok	1.71						
235	ok	0.91						
244	ok	1.19						
253	ok	1.36						
278	ok	1.50						
287	ok	1.51						
296	ok	1.52						
321	ok	1.53						
330	ok	1.53						
339	ok	1.53						
348	ok	1.54						
357	ok	1.58						
366	ok	1.62						
383	ok	1.72						
392	ok	1.79						
401	ok	2.04						
410	ok	2.04						
418	ok	1.67						
420	ok	0.57						
421	ok	0.62						
422	ok	0.80						
423	ok	0.80						
424	ok	0.87						
425	ok	0.87						
426	ok	0.87						
427	ok	0.87						
428	ok	0.80						
429	ok	0.80						
430	ok	0.59						
431	ok	0.59						
432	ok	0.67						
433	ok	0.91						
434	ok	0.82						
435	ok	0.51						
436	ok	0.49						
437	ok	0.49						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 230 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
438	ok	0.50						
439	ok	0.79						
440	ok	1.19						
441	ok	0.94						
442	ok	0.61						
443	ok	0.35						
444	ok	0.33						
445	ok	0.62						
446	ok	0.96						
447	ok	1.35						
448	ok	0.99						
449	ok	0.66						
450	ok	0.40						
451	ok	0.38						
452	ok	0.70						
453	ok	1.06						
454	ok	1.44						
455	ok	1.01						
456	ok	0.70						
457	ok	0.44						
458	ok	0.44						
459	ok	0.75						
460	ok	1.11						
461	ok	1.48						
462	ok	1.01						
463	ok	0.74						
464	ok	0.47						
465	ok	0.49						
466	ok	0.78						
467	ok	1.14						
468	ok	1.50						
469	ok	1.02						
470	ok	0.77						
471	ok	0.50						
472	ok	0.53						
473	ok	0.80						
474	ok	1.16						
475	ok	1.51						
476	ok	1.04						
477	ok	0.79						
478	ok	0.53						
479	ok	0.58						
480	ok	0.81						
481	ok	1.16						
482	ok	1.52						
483	ok	1.07						
484	ok	0.82						
485	ok	0.57						
486	ok	0.62						
487	ok	0.84						
488	ok	1.17						
489	ok	1.52						
490	ok	1.09						
491	ok	0.85						
492	ok	0.60						
493	ok	0.66						
494	ok	0.88						
495	ok	1.18						
496	ok	1.52						
497	ok	1.12						
498	ok	0.88						
499	ok	0.63						
500	ok	0.70						
501	ok	0.92						
502	ok	1.18						
503	ok	1.53						
504	ok	1.16						
505	ok	0.92						
506	ok	0.67						
507	ok	0.74						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 231 di 378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
508	ok	0.96						
509	ok	1.19						
510	ok	1.53						
511	ok	1.19						
512	ok	0.95						
513	ok	0.70						
514	ok	0.78						
515	ok	1.01						
516	ok	1.24						
517	ok	1.53						
518	ok	1.23						
519	ok	0.99						
520	ok	0.74						
521	ok	0.83						
522	ok	1.05						
523	ok	1.28						
524	ok	1.54						
525	ok	1.26						
526	ok	1.03						
527	ok	0.78						
528	ok	0.87						
529	ok	1.10						
530	ok	1.33						
531	ok	1.56						
532	ok	1.30						
533	ok	1.06						
534	ok	0.81						
535	ok	0.91						
536	ok	1.14						
537	ok	1.38						
538	ok	1.61						
539	ok	1.34						
540	ok	1.10						
541	ok	0.85						
542	ok	0.95						
543	ok	1.19						
544	ok	1.42						
545	ok	1.65						
546	ok	1.38						
547	ok	1.14						
548	ok	0.89						
549	ok	0.98						
550	ok	1.23						
551	ok	1.47						
552	ok	1.70						
553	ok	1.45						
554	ok	1.23						
555	ok	0.93						
556	ok	1.03						
557	ok	1.28						
558	ok	1.56						
559	ok	1.78						
560	ok	1.71						
561	ok	1.23						
562	ok	0.93						
563	ok	1.03						
564	ok	1.28						
565	ok	1.56						
566	ok	2.02						
567	ok	1.71						
568	ok	1.33						
569	ok	1.18						
570	ok	1.35						
571	ok	1.57						
572	ok	1.77						
573	ok	2.02						
574	ok	1.50						
575	ok	1.33						
576	ok	1.18						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 232 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
577	ok	1.35						
578	ok	1.57						
579	ok	1.77						
580	ok	1.94						
638	ok	1.01						
640	ok	1.08						
641	ok	0.31						
642	ok	1.00						
643	ok	1.51						
644	ok	1.11						
664	ok	0.64						
673	ok	0.82						
682	ok	0.94						
707	ok	1.02						
716	ok	1.04						
725	ok	1.06						
750	ok	1.14						
759	ok	1.17						
768	ok	1.21						
777	ok	1.24						
786	ok	1.28						
795	ok	1.31						
812	ok	1.39						
821	ok	1.47						
830	ok	1.73						
839	ok	1.73						
847	ok	1.35						
849	ok	0.70						
850	ok	0.91						
851	ok	0.58						
852	ok	0.58						
853	ok	0.79						
854	ok	0.79						
855	ok	0.86						
856	ok	0.86						
857	ok	0.86						
858	ok	0.86						
859	ok	0.79						
860	ok	0.79						
861	ok	0.56						
862	ok	0.64						
863	ok	1.19						
864	ok	0.80						
865	ok	0.50						
866	ok	0.48						
867	ok	0.48						
868	ok	0.51						
869	ok	0.82						
870	ok	1.36						
871	ok	0.97						
872	ok	0.62						
873	ok	0.33						
874	ok	0.36						
875	ok	0.61						
876	ok	0.94						
877	ok	1.44						
878	ok	1.06						
879	ok	0.70						
880	ok	0.40						
881	ok	0.41						
882	ok	0.67						
883	ok	1.00						
884	ok	1.48						
885	ok	1.11						
886	ok	0.75						
887	ok	0.46						
888	ok	0.45						
889	ok	0.72						
890	ok	1.01						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 233 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
891	ok	1.50						
892	ok	1.14						
893	ok	0.78						
894	ok	0.51						
895	ok	0.49						
896	ok	0.75						
897	ok	1.02						
898	ok	1.51						
899	ok	1.16						
900	ok	0.80						
901	ok	0.56						
902	ok	0.52						
903	ok	0.78						
904	ok	1.04						
905	ok	1.52						
906	ok	1.17						
907	ok	0.82						
908	ok	0.60						
909	ok	0.55						
910	ok	0.81						
911	ok	1.06						
912	ok	1.52						
913	ok	1.17						
914	ok	0.86						
915	ok	0.64						
916	ok	0.58						
...								
1009	ok	1.51						
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		2.04						

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
6	cm 50.00	5	8	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.45	0.1	3.93e-02	15.7	15.7	97.4	15.7	-150.2	-81.7	182.4	2097.5	2402.3	-2133.2
2	ok	0.12	0.6	3.19e-02	15.7	15.7	15.7	15.7	-34.3	-227.7	-85.7	1.367e+04	1951.5	8138.7
4	ok	0.12	0.2	1.25e-02	15.7	15.7	15.7	15.7	14.3	3.2	-39.9	-1765.9	-5515.2	-1386.5
5	ok	0.20	0.3	2.46e-02	55.0	36.7	47.1	26.2	61.9	-230.0	25.6	5379.6	3717.3	-1.023e+04
15	ok	0.48	0.1	5.65e-02	15.7	15.7	97.4	15.7	-40.8	-12.7	30.6	1374.8	-2148.5	-3286.8
30	ok	0.48	8.45e-02	5.36e-02	15.7	15.7	97.4	15.7	-408.1	41.3	15.1	1947.6	-4269.0	-2429.9
39	ok	0.48	0.1	4.21e-02	15.7	15.7	97.4	15.7	-309.9	-3.5	-112.0	771.6	-2559.8	563.2
48	ok	0.12	0.1	2.40e-02	15.7	15.7	15.7	15.7	56.9	-4.2	-12.8	-565.5	-1868.5	-652.2
57	ok	0.12	0.1	1.29e-02	15.7	15.7	15.7	15.7	62.5	-5.4	-17.2	-638.5	-2029.6	-990.1
66	ok	0.12	0.1	1.31e-02	15.7	15.7	15.7	15.7	75.8	-2.1	-26.2	-995.0	-2657.2	-1160.1
75	ok	0.12	0.2	1.78e-02	15.7	15.7	15.7	15.7	66.2	-5.7	-31.6	-843.2	-4014.8	-1490.9
84	ok	0.12	0.2	2.08e-02	15.7	15.7	15.7	15.7	54.1	-21.1	-18.0	-596.2	-4755.9	-1003.4
93	ok	0.12	0.2	1.90e-02	15.7	15.7	15.7	15.7	66.8	-8.2	-16.1	-919.0	-4652.9	-408.9
102	ok	0.12	0.2	1.69e-02	15.7	15.7	15.7	15.7	-26.1	8.5	53.1	500.7	4021.3	2307.4
111	ok	0.12	0.2	1.60e-02	15.7	15.7	15.7	15.7	-4.6	12.3	47.1	377.4	4556.8	1485.2
120	ok	0.12	0.2	1.65e-02	15.7	15.7	15.7	15.7	55.2	-11.9	-37.1	-1139.5	-3868.2	-1216.4
129	ok	0.12	0.2	1.85e-02	15.7	15.7	15.7	15.7	47.3	-9.0	-43.4	-1226.3	-4627.7	-1681.2
138	ok	0.12	0.2	2.09e-02	15.7	15.7	15.7	15.7	35.5	-22.5	-21.7	-770.2	-5865.5	-1512.1
147	ok	0.12	0.2	2.04e-02	15.7	15.7	15.7	15.7	31.8	-33.8	-13.7	-800.0	-6030.3	-570.0
156	ok	0.12	0.3	1.55e-02	15.7	15.7	15.7	15.7	-5.1	13.7	26.5	918.6	4982.0	2251.6
165	ok	0.12	0.3	1.31e-02	15.7	15.7	15.7	15.7	22.7	17.8	29.7	772.0	5896.1	1681.5
174	ok	0.12	0.3	1.34e-02	15.7	15.7	15.7	15.7	31.1	22.2	30.1	801.6	6256.7	995.0
183	ok	0.12	0.3	1.68e-02	15.7	15.7	15.7	15.7	32.2	-18.6	-42.9	-1585.4	-5311.3	-2042.3
192	ok	0.12	0.3	1.86e-02	15.7	15.7	15.7	15.7	13.4	-27.4	-50.8	-1549.7	-5975.7	-2562.3
201	ok	0.12	0.3	1.96e-02	15.7	15.7	15.7	15.7	10.9	-78.0	-41.8	-1734.3	-7447.9	-2409.2

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 234 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
216	ok	0.12	8.79e-02	1.40e-02	15.7	15.7	15.7	15.7	99.7	1.9	0.1	-46.8	336.2	-522.8
217	ok	0.12	9.29e-02	2.00e-02	15.7	15.7	15.7	15.7	74.1	-2.8	5.9	183.2	503.4	-721.8
218	ok	0.12	9.01e-02	1.76e-02	15.7	15.7	15.7	15.7	-43.8	1.2	-6.7	67.6	-224.9	1110.1
219	ok	0.12	9.98e-02	1.33e-02	15.7	15.7	15.7	15.7	-19.4	-0.1	-4.8	-127.0	-22.5	1113.5
222	ok	0.16	0.9	0.1	39.9	39.9	31.4	36.7	-783.4	-217.6	-552.5	5.443e+04	1.017e+04	3.653e+04
237	ok	0.16	0.2	5.10e-02	39.9	39.9	31.4	36.7	-515.1	17.1	-33.8	1.051e+04	-4085.8	-7674.2
246	ok	0.12	0.2	3.10e-02	15.7	15.7	15.7	15.7	-226.3	-77.7	-34.8	-2636.3	-4228.7	882.1
255	ok	0.12	0.1	2.41e-02	15.7	15.7	15.7	15.7	-188.5	-93.9	2.4	-1395.1	-4074.0	152.5
263	ok	0.12	0.1	2.15e-02	15.7	15.7	15.7	15.7	11.2	-11.5	38.2	-1034.8	-3179.3	1321.4
271	ok	0.12	0.1	2.04e-02	15.7	15.7	15.7	15.7	11.2	-8.4	44.6	-1140.3	-3605.4	1162.5
280	ok	0.12	0.3	2.05e-02	15.7	15.7	15.7	15.7	60.7	3.6	-39.9	-4745.7	-3895.5	218.8
289	ok	0.12	0.7	6.79e-02	15.7	15.7	15.7	15.7	-513.8	-104.5	-149.4	2.066e+04	4935.0	8465.9
298	ok	0.12	0.3	3.18e-02	15.7	15.7	15.7	15.7	-221.6	-11.8	67.1	-4896.3	-5491.1	-3428.5
306	ok	0.12	0.2	2.64e-02	15.7	15.7	15.7	15.7	13.4	-5.3	5.9	-1421.2	-4062.8	739.8
314	ok	0.12	0.2	2.49e-02	15.7	15.7	15.7	15.7	22.6	-7.5	15.3	-1201.3	-3766.8	750.8
323	ok	0.12	0.2	2.51e-02	15.7	15.7	15.7	15.7	24.5	-7.4	33.1	-1210.4	-3808.0	748.9
332	ok	0.12	0.2	2.74e-02	15.7	15.7	15.7	15.7	31.2	-8.1	38.6	-1534.7	-4408.1	672.8
341	ok	0.12	0.3	3.79e-02	15.7	15.7	15.7	15.7	-302.7	-1.6	-36.2	774.9	-3882.8	3865.4
350	ok	0.12	0.8	6.50e-02	15.7	15.7	15.7	15.7	-461.3	-130.5	177.6	2.423e+04	6485.7	-1.317e+04
359	ok	0.12	0.3	1.88e-02	15.7	15.7	15.7	15.7	-103.3	-105.4	28.3	2953.8	-2237.4	-3205.3
368	ok	0.12	0.2	1.69e-02	15.7	15.7	15.7	15.7	28.4	-13.1	-14.9	-1410.3	-4643.0	-816.3
376	ok	0.12	0.2	1.93e-02	15.7	15.7	15.7	15.7	31.6	-15.1	-22.5	-1455.0	-4660.1	-772.9
385	ok	0.12	0.2	2.32e-02	15.7	15.7	15.7	15.7	26.6	-14.9	-36.3	-1904.8	-5461.0	-832.2
394	ok	0.20	0.3	2.70e-02	55.0	36.7	47.1	26.2	-164.9	40.7	-176.1	-1.367e+04	-6530.4	9915.8
403	ok	0.20	0.9	9.44e-02	55.0	36.7	47.1	26.2	-844.3	-85.0	369.8	5.462e+04	9827.1	-2.384e+04
419	ok	0.12	9.14e-02	1.21e-02	15.7	15.7	15.7	15.7	-13.4	-2.3	-3.5	-138.4	25.6	941.7
582	ok	0.56	0.1	5.65e-02	15.7	112.2	97.4	15.7	-33.4	24.8	-66.6	-3150.0	1182.5	-2806.6
590	ok	0.48	0.2	6.58e-02	15.7	112.2	97.4	15.7	113.2	-750.6	64.1	-4166.8	575.6	-3144.9
598	ok	0.48	0.1	8.07e-02	15.7	112.2	97.4	15.7	-14.0	-64.8	63.1	-1946.8	1184.0	2235.5
606	ok	0.56	0.3	7.34e-02	15.7	112.2	15.7	15.7	218.7	-360.6	-520.4	-2973.4	107.4	1770.5
614	ok	0.12	0.1	3.69e-02	15.7	15.7	15.7	15.7	-8.2	-22.7	71.5	-451.3	-499.3	2769.1
622	ok	0.12	0.1	1.85e-02	15.7	15.7	15.7	15.7	-13.7	-28.3	56.1	-304.1	-353.7	2536.5
630	ok	0.12	0.4	2.07e-02	15.7	15.7	15.7	15.7	35.3	-113.6	81.9	-8589.2	-1162.1	-3711.3
637	ok	0.12	0.2	1.79e-02	15.7	15.7	15.7	15.7	-24.8	-19.3	-84.4	1768.5	2414.1	2226.3
639	ok	0.19	0.2	1.23e-02	60.0	60.0	60.6	50.6	47.6	147.7	206.1	-5453.7	-5417.4	-9722.6
645	ok	0.12	8.02e-02	1.28e-02	15.7	15.7	15.7	15.7	58.4	2.6	1.6	-176.5	-119.9	-806.0
646	ok	0.12	7.37e-02	1.57e-02	15.7	15.7	15.7	15.7	50.5	1.7	-2.3	-127.9	1.1	-771.3
647	ok	0.12	7.15e-02	2.17e-02	15.7	15.7	15.7	15.7	52.5	-0.8	4.8	203.1	253.2	-766.4
648	ok	0.12	7.24e-02	2.28e-02	15.7	15.7	15.7	15.7	43.1	-3.2	9.0	221.2	180.2	-726.7
651	ok	0.20	0.2	3.59e-02	68.8	72.8	55.0	68.1	-444.0	42.1	18.5	2.168e+04	-3219.6	-2318.1
666	ok	0.20	0.3	2.38e-02	68.8	72.8	55.0	68.1	135.7	-30.8	-26.1	-2.647e+04	-7496.8	2637.2
675	ok	0.12	0.1	2.58e-02	15.7	15.7	15.7	15.7	-185.5	-8.2	-76.6	1127.8	-2733.0	-245.5
684	ok	0.12	0.1	1.70e-02	15.7	15.7	15.7	15.7	-17.4	2.8	-44.1	-179.5	2210.3	-706.4
692	ok	0.12	0.1	1.46e-02	15.7	15.7	15.7	15.7	-12.4	5.9	-37.3	-91.5	2686.0	-212.7
700	ok	0.12	0.1	1.56e-02	15.7	15.7	15.7	15.7	-41.8	4.5	-23.3	277.3	3038.0	494.0
709	ok	0.15	0.3	1.94e-02	15.7	15.7	28.3	31.4	21.4	-13.3	49.5	2474.8	2408.9	462.7
718	ok	0.15	0.2	3.57e-02	31.4	31.4	28.3	31.4	75.2	7.2	-29.1	-1567.2	-5368.0	2780.4
727	ok	0.15	0.2	2.34e-02	15.7	15.7	28.3	31.4	-185.7	25.0	26.1	2519.4	-3948.5	-2466.9
735	ok	0.12	0.2	2.02e-02	15.7	15.7	15.7	15.7	-28.9	9.4	-47.8	373.7	4421.9	-1988.6
743	ok	0.12	0.2	1.85e-02	15.7	15.7	15.7	15.7	2.1	14.3	-46.1	408.2	4711.0	-1228.9
752	ok	0.12	0.2	1.88e-02	15.7	15.7	15.7	15.7	1.2	13.3	-38.2	457.4	4941.6	-637.2
761	ok	0.13	0.2	2.17e-02	15.7	15.7	21.4	15.7	52.4	-9.0	43.2	-1192.3	-4408.1	1452.4
770	ok	0.19	0.2	2.01e-02	39.9	39.9	21.4	44.3	-173.9	79.6	-80.0	2029.8	-5363.6	1894.8
779	ok	0.19	0.2	2.57e-02	39.9	39.9	21.4	44.3	-139.2	-40.2	64.6	-5219.8	3781.9	-1214.6
788	ok	0.19	0.2	1.36e-02	39.9	39.9	21.4	44.3	-60.1	8.1	85.2	-3641.7	-2726.2	-3827.0
797	ok	0.12	0.3	1.40e-02	15.7	15.7	15.7	15.7	27.8	19.0	-19.3	610.6	6290.5	-1383.7
805	ok	0.12	0.3	1.49e-02	15.7	15.7	15.7	15.7	33.3	21.3	-23.3	804.1	6508.3	-936.9
814	ok	0.12	0.3	1.97e-02	15.7	15.7	15.7	15.7	35.8	-21.9	36.6	-1591.1	-5312.8	1610.7
823	ok	0.19	0.1	2.54e-02	60.0	60.0	60.6	50.6	-278.4	-20.0	72.2	9306.2	-3002.2	-1526.5
832	ok	0.19	0.3	5.54e-02	60.0	60.0	60.6	50.6	-570.3	-24.2	-221.7	2.266e+04	5167.1	1.332e+04
848	ok	0.12	6.33e-02	1.58e-02	15.7	15.7	15.7	15.7	5.9	0.5	-5.7	-95.4	-111.3	1020.6
1011	ok	0.12	0.4	2.12e-02	15.7	15.7	15.7	15.7	42.0	-101.1	-121.9	-8451.5	-1029.8	3940.7
1019	ok	0.12	0.1	1.50e-02	15.7	15.7	15.7	15.7	-11.6	0.6	-64.9	-228.5	-324.1	-2022.7
1027	ok	0.12	0.1	1.18e-02	15.7	15.7	15.7	15.7	-5.4	1.9	-55.5	-326.9	-439.8	-2107.5
1035	ok	0.12	0.1	1.19e-02	15.7	15.7	15.7	15.7	-5.0	-7.2	-58.8	-560.1	-453.2	-2215.9
1043	ok	0.12	0.1	1.45e-02	15.7	15.7	15.7	15.7	-37.4	-104.3	21.5	-3231.9	497.1	-726.6
1051	ok	0.12	0.2	1.73e-02	15.7	15.7	15.7	15.7	8.3	-139.7	24.6	-5140.3	1785.8	1579.1

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 235 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
1059	ok	0.12	0.2	1.51e-02	15.7	15.7	15.7	15.7	-25.7	-7.2	-9.9	-3401.3	1095.4	2071.9
1066	ok	0.30	0.3	5.71e-02	148.4	112.2	97.4	148.4	971.1	-396.1	796.1	-3.373e+04	-1527.0	-920.9
1067	ok	0.30	0.1	8.29e-02	148.4	112.2	97.4	148.4	-26.7	-35.7	50.3	5708.6	1.118e+04	376.2
1068	ok	0.30	0.8	0.2	148.4	112.2	97.4	148.4	5839.4	2110.1	-3567.6	-1.581e+04	-9892.4	-1.401e+04
1069	ok	0.56	6.26e-02	9.59e-02	15.7	112.2	15.7	15.7	-1049.6	327.6	-343.1	4134.3	1132.4	1623.4
1070	ok	0.12	0.2	4.53e-02	15.7	15.7	15.7	15.7	-10.7	-31.7	51.7	1968.1	-294.7	2641.0
1071	ok	0.12	0.2	2.64e-02	15.7	15.7	15.7	15.7	-17.8	-12.7	55.2	1571.1	-721.0	2646.7
1072	ok	0.16	0.7	2.56e-02	39.9	39.9	31.4	15.7	241.7	-31.3	-131.5	-2.814e+04	-8082.8	1.668e+04
1073	ok	0.30	9.64e-02	9.90e-02	148.4	112.2	97.4	148.4	-1393.8	1042.4	579.9	1.682e+04	3066.6	-2883.0
1074	ok	0.30	0.8	0.3	148.4	112.2	97.4	148.4	-1766.4	559.4	-3851.4	3347.8	3.397e+04	1.256e+04
1075	ok	0.30	0.7	0.2	148.4	112.2	97.4	148.4	3005.5	4717.9	1993.2	1.902e+04	1.883e+04	6071.2
1076	ok	0.56	0.1	9.00e-02	15.7	112.2	15.7	15.7	-248.8	32.9	-204.5	7134.9	2121.9	1041.8
1077	ok	0.12	0.2	4.48e-02	15.7	15.7	15.7	15.7	-329.5	-7.53e-02	11.1	3820.9	215.0	728.1
1078	ok	0.12	0.2	3.16e-02	15.7	15.7	15.7	15.7	-258.2	-75.2	25.1	4143.3	-778.6	263.6
1079	ok	0.16	0.2	3.75e-02	39.9	39.9	31.4	15.7	-222.1	-219.3	132.4	8290.2	5687.9	-4114.8
1080	ok	0.30	5.46e-02	4.13e-02	148.4	112.2	97.4	148.4	-217.2	-128.3	-367.6	2042.1	4442.4	1574.2
1081	ok	0.30	5.79e-02	5.20e-02	148.4	112.2	97.4	148.4	281.7	-629.3	-294.3	3092.9	8739.2	-561.1
1082	ok	0.30	7.79e-02	7.38e-02	148.4	112.2	97.4	148.4	188.6	-330.7	-425.0	3784.1	8405.4	-1837.3
1083	ok	0.56	0.2	5.83e-02	15.7	112.2	15.7	15.7	-64.2	-43.1	539.9	4057.2	3826.5	-1023.8
1084	ok	0.12	0.2	3.89e-02	15.7	15.7	15.7	15.7	-14.7	-16.6	45.4	1881.5	1156.2	1477.5
1085	ok	0.12	0.1	3.22e-02	15.7	15.7	15.7	15.7	-15.8	-15.7	44.7	1141.5	562.8	1983.5
1086	ok	0.12	0.1	3.47e-02	15.7	15.7	15.7	15.7	-14.7	-13.0	35.0	-152.2	-1653.9	1902.6
1087	ok	0.12	0.2	2.84e-02	15.7	15.7	15.7	15.7	-28.1	0.8	44.6	-321.7	4528.3	793.2
1088	ok	0.12	0.2	3.14e-02	15.7	15.7	15.7	15.7	-30.1	-2.5	42.2	-376.6	5750.8	602.2
1089	ok	0.12	0.2	3.25e-02	15.7	15.7	15.7	15.7	-79.8	-203.2	-2.7	87.1	5849.2	-856.9
1090	ok	0.12	0.2	3.06e-02	15.7	15.7	15.7	15.7	-23.4	-5.5	40.5	392.2	4559.3	755.1
1091	ok	0.12	0.2	2.97e-02	15.7	15.7	15.7	15.7	-18.7	-7.4	40.3	487.8	2820.7	1144.6
1092	ok	0.12	0.1	2.85e-02	15.7	15.7	15.7	15.7	-13.4	-8.6	39.0	174.5	964.1	1460.2
1093	ok	0.12	9.38e-02	2.69e-02	15.7	15.7	15.7	15.7	-6.0	-10.1	33.9	-624.5	-2060.5	1492.8
1094	ok	0.12	0.2	1.58e-02	15.7	15.7	15.7	15.7	-23.5	5.4	45.6	-374.0	4713.7	295.7
1095	ok	0.12	0.3	1.60e-02	15.7	15.7	15.7	15.7	-26.4	3.6	45.5	-525.3	5847.1	687.7
1096	ok	0.12	0.3	1.91e-02	15.7	15.7	15.7	15.7	-26.7	3.4	42.8	-321.1	5882.8	1046.0
1097	ok	0.12	0.2	2.30e-02	15.7	15.7	15.7	15.7	-23.2	0.2	41.5	122.9	4939.6	1334.8
1098	ok	0.12	0.2	2.52e-02	15.7	15.7	15.7	15.7	-16.3	-1.3	43.0	301.2	3185.8	1394.0
1099	ok	0.12	0.1	2.55e-02	15.7	15.7	15.7	15.7	-10.7	-3.5	41.9	35.7	1133.0	1472.4
1100	ok	0.12	9.86e-02	2.43e-02	15.7	15.7	15.7	15.7	-2.7	-7.2	38.7	-736.0	-2279.7	1410.8
1101	ok	0.12	0.2	1.60e-02	15.7	15.7	15.7	15.7	-42.4	4.9	32.9	637.4	5706.0	-474.6
1102	ok	0.12	0.3	1.72e-02	15.7	15.7	15.7	15.7	-27.0	0.4	45.7	-365.3	7104.8	780.8
1103	ok	0.12	0.3	2.02e-02	15.7	15.7	15.7	15.7	-31.4	2.1	40.2	947.1	7100.8	1456.8
1104	ok	0.12	0.3	2.30e-02	15.7	15.7	15.7	15.7	-24.1	2.1	37.4	1067.0	5393.3	1850.7
1105	ok	0.12	0.2	2.43e-02	15.7	15.7	15.7	15.7	-16.8	1.0	39.6	728.7	3211.7	1701.1
1106	ok	0.12	0.1	2.46e-02	15.7	15.7	15.7	15.7	-11.1	0.4	40.6	176.8	981.1	1446.7
1107	ok	0.12	0.1	2.32e-02	15.7	15.7	15.7	15.7	1.3	-4.8	39.8	-808.8	-2497.6	1225.1
1108	ok	0.16	0.2	1.86e-02	33.4	23.6	31.4	26.2	-54.3	-10.7	36.8	3682.6	9858.8	-1611.7
1109	ok	0.16	0.5	4.05e-02	33.4	23.6	31.4	26.2	-66.9	-10.3	59.2	4858.3	1.077e+04	1264.4
1110	ok	0.16	0.3	2.11e-02	33.4	23.6	31.4	26.2	-157.9	-110.2	56.3	1055.0	1.114e+04	850.6
1111	ok	0.12	0.3	2.31e-02	15.7	15.7	15.7	15.7	-23.3	-3.9	42.7	2136.7	5465.6	2017.9
1112	ok	0.12	0.2	2.40e-02	15.7	15.7	15.7	15.7	-15.1	0.1	41.9	1361.7	2789.0	1628.1
1113	ok	0.12	0.1	2.47e-02	15.7	15.7	15.7	15.7	-10.7	3.7	42.3	728.3	687.4	1293.5
1114	ok	0.12	0.2	2.50e-02	15.7	15.7	15.7	15.7	-166.1	-55.1	70.4	-3430.2	-2153.7	-2281.5
1115	ok	0.16	0.3	3.57e-02	33.4	23.6	31.4	26.2	-26.5	36.3	41.4	6787.1	8928.4	2361.8
1116	ok	0.16	1.0	7.85e-02	33.4	23.6	31.4	26.2	-361.7	-439.0	-317.7	2.944e+04	4.059e+04	1.627e+04
1117	ok	0.16	0.3	2.40e-02	33.4	23.6	31.4	26.2	-182.5	-148.2	-4.8	8620.9	8642.2	1384.2
1118	ok	0.12	0.2	2.28e-02	15.7	15.7	15.7	15.7	-177.5	-105.4	15.1	3861.9	4115.1	234.4
1119	ok	0.12	0.2	2.35e-02	15.7	15.7	15.7	15.7	-11.4	5.2	37.2	1717.1	1296.4	1120.6
1120	ok	0.12	0.1	2.53e-02	15.7	15.7	15.7	15.7	-9.6	17.7	24.7	855.0	-1113.4	993.6
1121	ok	0.12	0.3	3.49e-02	15.7	15.7	15.7	15.7	-284.7	-76.8	-10.2	8082.0	-2845.2	2135.8
1122	ok	0.16	0.3	1.97e-02	33.4	23.6	31.4	26.2	-39.9	-6.2	44.8	3970.8	1.021e+04	3343.5
1123	ok	0.16	0.5	2.57e-02	33.4	23.6	31.4	26.2	-191.9	-217.4	18.4	-2454.4	2.090e+04	-1027.3
1124	ok	0.16	0.3	3.56e-02	33.4	23.6	31.4	26.2	-253.9	-158.0	-108.0	8927.5	1.397e+04	2097.4
1125	ok	0.12	0.2	2.46e-02	15.7	15.7	15.7	15.7	-200.6	-87.9	-3.3	3552.5	4259.7	-696.7
1126	ok	0.12	0.1	2.41e-02	15.7	15.7	15.7	15.7	-194.9	-82.6	11.6	1798.0	1799.0	-511.3
1127	ok	0.12	8.96e-02	2.59e-02	15.7	15.7	15.7	15.7	-11.9	3.9	25.1	479.8	-962.1	880.0
1128	ok	0.12	0.2	3.60e-02	15.7	15.7	15.7	15.7	-278.3	-87.8	58.7	4369.2	1143.0	-1126.4
1129	ok	0.12	0.3	2.10e-02	15.7	15.7	15.7	15.7	-23.3	9.2	36.8	294.1	6704.2	2147.8
1130	ok	0.12	0.3	2.45e-02	15.7	15.7	15.7	15.7	-22.0	12.3	36.1	-245.8	7383.8	1467.1
1131	ok	0.12	0.3	2.62e-02	15.7	15.7	15.7	15.7	-15.8	8.6	31.1	122.3	7178.3	600.2
1132	ok	0.12	0.2	2.58e-02	15.7	15.7	15.7	15.7	-11.6	7.7	26.4	392.4	5296.7	345.2
1133	ok	0.12	0.1	2.55e-02	15.7	15.7	15.7	15.7	-206.5	-63.2	10.7	325.6	2237.0	-573.7

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 236 di

378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
1134	ok	0.12	8.14e-02	2.65e-02	15.7	15.7	15.7	15.7	19.7	14.2	-15.8	-237.8	698.7	-925.0
1135	ok	0.12	0.1	2.73e-02	15.7	15.7	15.7	15.7	4.5	-0.4	14.4	-933.2	-2955.8	723.4
1136	ok	0.12	0.3	2.08e-02	15.7	15.7	15.7	15.7	-14.8	12.7	40.2	-285.9	5908.2	1533.7
1137	ok	0.12	0.3	2.39e-02	15.7	15.7	15.7	15.7	-15.2	15.1	39.1	-523.1	6621.6	1323.7
1138	ok	0.12	0.3	2.55e-02	15.7	15.7	15.7	15.7	-10.1	12.8	32.4	-516.0	6419.0	1030.3
1139	ok	0.12	0.2	2.60e-02	15.7	15.7	15.7	15.7	-8.7	9.6	27.6	-345.2	4912.6	933.9
1140	ok	0.12	0.1	2.61e-02	15.7	15.7	15.7	15.7	-3.1	6.9	26.2	-258.5	2984.6	894.2
1141	ok	0.12	8.41e-02	2.64e-02	15.7	15.7	15.7	15.7	4.4	0.8	22.1	-738.0	-773.1	739.6
1142	ok	0.12	0.1	2.62e-02	15.7	15.7	15.7	15.7	12.9	-2.7	17.9	-1075.6	-3006.8	675.7
1143	ok	0.12	0.3	2.12e-02	15.7	15.7	15.7	15.7	-8.7	12.5	40.3	-128.7	5998.4	800.0
1144	ok	0.12	0.3	2.44e-02	15.7	15.7	15.7	15.7	-10.6	14.4	38.0	-468.3	6762.0	1053.9
1145	ok	0.12	0.3	2.59e-02	15.7	15.7	15.7	15.7	-12.2	12.7	30.4	-242.9	6523.8	1299.1
1146	ok	0.12	0.2	2.60e-02	15.7	15.7	15.7	15.7	-7.4	9.8	29.7	-253.8	4976.0	1315.4
1147	ok	0.12	0.2	2.59e-02	15.7	15.7	15.7	15.7	-1.9	6.0	28.7	-211.3	2852.6	1198.0
1148	ok	0.12	8.98e-02	2.60e-02	15.7	15.7	15.7	15.7	7.4	0.4	24.8	-726.0	-949.8	888.4
1149	ok	0.12	0.1	2.62e-02	15.7	15.7	15.7	15.7	11.5	-3.4	31.6	-1074.8	-3071.3	802.6
1150	ok	0.12	0.3	2.24e-02	15.7	15.7	15.7	15.7	-23.6	11.3	23.6	1040.1	7309.3	-236.0
1151	ok	0.12	0.4	2.64e-02	15.7	15.7	15.7	15.7	-18.7	6.6	35.3	749.1	8077.8	1097.1
1152	ok	0.12	0.4	2.86e-02	15.7	15.7	15.7	15.7	-11.0	10.2	31.6	630.9	7423.5	1741.9
1153	ok	0.15	0.2	2.30e-02	31.4	31.4	15.7	15.7	-5.9	7.9	31.8	709.2	5011.3	1784.6
1154	ok	0.12	0.2	2.48e-02	15.7	15.7	15.7	15.7	-193.6	-66.9	27.4	773.2	2058.0	458.9
1155	ok	0.12	0.1	2.50e-02	15.7	15.7	15.7	15.7	2.9	-1.6	24.9	-391.7	-1273.9	923.6
1156	ok	0.12	0.1	2.74e-02	15.7	15.7	15.7	15.7	14.5	-3.2	31.2	-1092.5	-3197.7	580.7
1157	ok	0.15	0.2	2.05e-02	28.3	28.3	23.6	31.4	-19.8	-4.1	14.2	5235.6	1.100e+04	-877.0
1158	ok	0.15	0.6	4.44e-02	28.3	28.3	23.6	31.4	-275.6	-348.2	90.7	3878.9	3.139e+04	-3027.9
1159	ok	0.15	0.3	3.97e-02	28.3	28.3	23.6	31.4	-186.5	-242.6	145.3	1.024e+04	1.503e+04	-2579.1
1160	ok	0.12	0.3	2.46e-02	15.7	15.7	15.7	15.7	-186.9	-87.7	38.2	3881.0	3844.8	59.8
1161	ok	0.12	0.1	2.29e-02	15.7	15.7	15.7	15.7	-176.8	-79.7	23.4	1889.6	1685.7	234.3
1162	ok	0.12	0.1	2.37e-02	15.7	15.7	15.7	15.7	21.7	-6.7	-16.1	1089.9	1756.6	-962.9
1163	ok	0.12	0.2	2.88e-02	15.7	15.7	15.7	15.7	-223.9	-113.5	-40.7	4948.2	2281.2	1183.2
1164	ok	0.15	0.3	2.45e-02	28.3	28.3	23.6	31.4	-26.9	43.0	-110.2	-1.095e+04	4617.5	3792.5
1165	ok	0.15	0.9	9.03e-02	28.3	28.3	23.6	31.4	-325.4	-583.9	346.6	3.105e+04	4.604e+04	-1.970e+04
1166	ok	0.15	0.3	2.38e-02	28.3	28.3	23.6	31.4	-179.1	-118.6	16.1	6926.5	7715.7	-2806.2
1167	ok	0.12	0.2	2.09e-02	15.7	15.7	15.7	15.7	-163.6	-87.2	15.5	2896.7	4007.5	-840.7
1168	ok	0.12	0.1	2.14e-02	15.7	15.7	15.7	15.7	-169.6	-72.7	12.8	1437.2	1827.1	-367.8
1169	ok	0.12	0.1	2.26e-02	15.7	15.7	15.7	15.7	18.6	-12.8	-12.8	1090.8	1496.9	-890.3
1170	ok	0.12	0.5	2.78e-02	15.7	15.7	15.7	15.7	-44.6	-61.5	48.0	-9706.8	-4384.4	-5433.8
1171	ok	0.15	0.2	1.34e-02	28.3	28.3	23.6	31.4	-10.1	-3.4	7.3	1271.8	8553.2	2045.1
1172	ok	0.15	0.3	3.43e-02	28.3	28.3	23.6	31.4	-201.8	-180.6	125.5	4730.5	1.117e+04	-7130.3
1173	ok	0.15	0.2	1.79e-02	28.3	28.3	23.6	31.4	-138.6	-61.9	4.4	-1886.3	9513.3	-910.3
1174	ok	0.12	0.2	2.08e-02	15.7	15.7	15.7	15.7	-164.3	-53.8	5.6	230.2	4323.3	-1042.9
1175	ok	0.12	0.1	2.11e-02	15.7	15.7	15.7	15.7	-168.3	-58.3	7.3	76.2	2179.8	-568.6
1176	ok	0.12	0.1	2.09e-02	15.7	15.7	15.7	15.7	24.1	12.8	-7.4	516.8	1866.9	-844.9
1177	ok	0.12	0.2	1.93e-02	15.7	15.7	15.7	15.7	-138.4	-54.7	-20.8	-4137.3	-1161.7	1775.2
1178	ok	0.12	0.3	1.62e-02	15.7	15.7	15.7	15.7	12.9	22.0	25.7	246.1	7134.0	1818.9
1179	ok	0.12	0.3	1.78e-02	15.7	15.7	15.7	15.7	5.3	19.6	18.6	-204.7	7457.7	1196.6
1180	ok	0.12	0.3	1.97e-02	15.7	15.7	15.7	15.7	1.9	15.7	18.9	-344.3	6610.7	847.2
1181	ok	0.12	0.2	2.07e-02	15.7	15.7	15.7	15.7	1.9	14.1	17.5	-320.2	4682.3	703.0
1182	ok	0.12	0.1	2.07e-02	15.7	15.7	15.7	15.7	-164.4	-53.4	11.3	-807.6	2406.1	-238.6
1183	ok	0.12	0.1	2.01e-02	15.7	15.7	15.7	15.7	10.3	-3.4	19.4	-934.5	-1753.3	781.7
1184	ok	0.12	0.2	1.92e-02	15.7	15.7	15.7	15.7	20.1	-9.0	16.3	-1368.5	-4057.5	785.7
1185	ok	0.12	0.3	1.74e-02	15.7	15.7	15.7	15.7	17.0	24.2	25.2	242.4	7089.8	1102.3
1186	ok	0.12	0.3	1.97e-02	15.7	15.7	15.7	15.7	4.7	23.6	15.8	-386.4	7321.3	1010.5
1187	ok	0.12	0.3	2.09e-02	15.7	15.7	15.7	15.7	0.9	19.7	18.0	-657.7	6311.1	1040.4
1188	ok	0.12	0.2	2.06e-02	15.7	15.7	15.7	15.7	0.3	14.8	17.9	-651.7	4606.0	1045.1
1189	ok	0.12	0.1	1.99e-02	15.7	15.7	15.7	15.7	-151.7	-61.7	18.9	-519.3	2460.6	234.6
1190	ok	0.12	0.1	1.98e-02	15.7	15.7	15.7	15.7	10.5	-3.3	22.2	-1148.0	-1883.8	940.4
1191	ok	0.12	0.2	2.02e-02	15.7	15.7	15.7	15.7	18.5	-10.0	25.9	-1368.8	-4100.3	865.9
1192	ok	0.12	0.3	2.01e-02	15.7	15.7	15.7	15.7	19.4	-13.2	-33.1	-1896.3	-4163.4	-1986.8
1193	ok	0.12	0.3	2.37e-02	15.7	15.7	15.7	15.7	1.1	25.3	15.0	-150.1	7865.8	632.4
1194	ok	0.12	0.3	2.50e-02	15.7	15.7	15.7	15.7	-176.3	-65.0	61.9	1108.5	7894.4	-54.8
1195	ok	0.12	0.2	2.14e-02	15.7	15.7	15.7	15.7	-149.0	-74.5	50.8	1294.9	4576.3	794.4
1196	ok	0.12	0.1	1.83e-02	15.7	15.7	15.7	15.7	-130.6	-86.4	27.0	970.0	2279.5	518.3
1197	ok	0.12	0.1	1.83e-02	15.7	15.7	15.7	15.7	9.3	-6.3	30.9	-1093.2	-2110.1	1217.8
1198	ok	0.12	0.2	2.16e-02	15.7	15.7	15.7	15.7	20.4	-10.6	35.6	-1505.2	-4614.1	956.4
1199	ok	0.45	0.4	2.93e-02	121.9	44.3	74.7	15.7	-343.9	-44.2	-106.5	1.370e+04	7805.5	2054.0
1200	ok	0.45	0.5	2.45e-02	121.9	44.3	74.7	15.7	-87.9	-55.1	161.1	-1.271e+04	1.420e+04	-6373.7
1201	ok	0.45	0.5	3.74e-02	121.9	44.3	74.7	15.7	-293.2	-157.3	226.0	1.580e+04	1.443e+04	-5066.6
1202	ok	0.12	0.3	2.35e-02	15.7	15.7	15.7	15.7	-125.1	-117.1	71.7	5328.6	4262.6	284.4

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 237 di
378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
1203	ok	0.12	0.1	1.70e-02	15.7	15.7	15.7	15.7	-92.2	-114.8	30.2	2950.7	1800.1	436.5
1204	ok	0.12	0.1	1.66e-02	15.7	15.7	15.7	15.7	6.0	-1.7	29.1	-1264.0	-2760.1	1137.1
1205	ok	0.25	0.4	3.72e-02	55.0	15.7	47.1	26.2	-302.9	-120.7	-125.1	1.273e+04	4737.2	4863.6
1206	ok	0.45	0.5	5.58e-02	121.9	44.3	74.7	38.1	-735.7	69.7	108.5	4.093e+04	4599.3	-1.157e+04
1207	ok	0.45	0.9	9.29e-02	121.9	44.3	74.7	38.1	973.3	528.4	-782.9	-	-	4.686e+04
												5.529e+04	2.265e+04	
1208	ok	0.45	0.4	2.68e-02	121.9	44.3	74.7	38.1	-354.9	-122.8	-10.9	2.507e+04	2598.0	6127.9
1209	ok	0.12	0.2	1.99e-02	15.7	15.7	15.7	15.7	-81.8	-122.4	40.8	6035.7	3759.4	-97.8
1210	ok	0.12	0.1	1.52e-02	15.7	15.7	15.7	15.7	-49.7	-115.9	21.9	3141.0	1751.0	-145.4
1211	ok	0.12	0.2	1.45e-02	15.7	15.7	15.7	15.7	-97.1	-108.1	-6.6	4537.3	144.7	-220.3
1212	ok	0.25	0.9	4.86e-02	55.0	15.7	47.1	26.2	-451.7	-111.4	91.0	2.939e+04	1018.4	-1.177e+04
1213	ok	0.45	0.2	1.43e-02	121.9	44.3	74.7	38.1	277.5	116.5	-355.6	-1.267e+04	-4150.7	1.364e+04
1214	ok	0.45	0.5	5.94e-02	121.9	44.3	74.7	38.1	-45.1	-562.3	296.9	9971.4	2.579e+04	-1.951e+04
1215	ok	0.45	0.2	1.23e-02	121.9	44.3	74.7	38.1	9.7	-92.5	92.9	-3829.2	8380.1	-4613.3
1216	ok	0.12	0.2	1.20e-02	15.7	15.7	15.7	15.7	-17.8	-91.2	18.2	1541.8	5159.6	-1140.4
1217	ok	0.12	0.1	9.20e-03	15.7	15.7	15.7	15.7	-12.6	-71.7	12.3	1122.1	2551.0	-299.6
1218	ok	0.12	0.1	1.04e-02	15.7	15.7	15.7	15.7	0.5	17.4	5.7	-154.6	-2743.3	1105.8
1219	ok	0.25	0.2	1.64e-02	55.0	15.7	47.1	26.2	36.7	14.6	-175.8	-8640.6	-5773.6	7322.6
1220	ok	0.16	0.7	2.28e-02	39.9	39.9	31.4	36.7	285.0	-50.8	95.5	-	-9038.0	-1.646e+04
												2.786e+04		
1221	ok	0.12	0.1	1.80e-02	15.7	15.7	15.7	15.7	-11.4	-11.3	-48.1	1298.1	-506.5	-2055.5
1222	ok	0.12	0.2	1.61e-02	15.7	15.7	15.7	15.7	-5.7	-9.0	-50.4	1382.9	-352.0	-2201.0
1223	ok	0.12	0.2	1.67e-02	15.7	15.7	15.7	15.7	-8.7	-29.6	-47.5	2154.3	159.9	-1946.3
1224	ok	0.20	0.2	1.81e-02	68.8	15.7	15.7	15.7	-62.5	-135.6	10.6	3296.8	2606.9	-1576.5
1225	ok	0.20	0.7	4.27e-02	68.8	72.8	55.0	68.1	741.6	89.3	-202.5	-	-	2.604e+04
												4.450e+04	2.403e+04	
1226	ok	0.20	0.3	1.79e-02	68.8	72.8	55.0	68.1	377.0	-160.0	-111.4	-	-	4662.6
												2.404e+04		
1227	ok	0.16	0.2	3.86e-02	39.9	39.9	31.4	36.7	-178.4	-257.3	-158.8	8990.2	6222.4	4215.7
1228	ok	0.12	0.1	2.08e-02	15.7	15.7	15.7	15.7	-126.3	-145.2	-29.9	3662.6	-962.8	342.1
1229	ok	0.12	0.1	1.76e-02	15.7	15.7	15.7	15.7	-10.0	-15.7	-40.8	1780.2	267.0	-1704.6
1230	ok	0.12	0.2	1.93e-02	15.7	15.7	15.7	15.7	-80.1	-150.0	19.1	4001.2	896.9	-230.8
1231	ok	0.25	0.3	2.33e-02	68.8	15.7	15.7	15.7	-103.1	-165.3	64.4	6482.1	3595.1	651.0
1232	ok	0.20	0.2	7.30e-02	68.8	72.8	55.0	68.1	-350.5	-539.6	409.6	1.452e+04	2.140e+04	-7115.2
1233	ok	0.20	0.3	4.02e-02	68.8	72.8	55.0	68.1	-498.7	443.3	-51.3	1.431e+04	-	1.413e+04
													2.034e+04	
1234	ok	0.12	9.63e-02	2.99e-02	15.7	15.7	15.7	15.7	-7.2	-6.5	-31.7	-82.9	-939.6	-1718.2
1235	ok	0.12	0.1	2.18e-02	15.7	15.7	15.7	15.7	-144.7	-126.7	-33.1	1469.7	-592.4	-774.0
1236	ok	0.12	0.1	1.67e-02	15.7	15.7	15.7	15.7	-9.9	-9.1	-42.6	1393.6	1147.7	-1400.9
1237	ok	0.12	0.1	1.87e-02	15.7	15.7	15.7	15.7	-125.0	-124.6	20.0	2821.4	1771.2	780.9
1238	ok	0.12	0.2	2.60e-02	15.7	15.7	15.7	15.7	-161.3	-119.0	70.5	3811.5	4989.3	1598.2
1239	ok	0.12	0.3	2.84e-02	15.7	15.7	15.7	15.7	-225.8	-53.9	39.7	2066.2	8284.1	1946.1
1240	ok	0.12	0.3	2.76e-02	15.7	15.7	15.7	15.7	-201.0	-25.4	12.9	827.2	6321.2	-2902.1
1241	ok	0.12	9.17e-02	2.39e-02	15.7	15.7	15.7	15.7	0.7	-5.5	-31.9	-635.7	-1952.0	-1367.0
1242	ok	0.12	0.1	2.17e-02	15.7	15.7	15.7	15.7	7.6	3.6	33.9	-935.7	-1225.8	1366.7
1243	ok	0.12	0.1	1.97e-02	15.7	15.7	15.7	15.7	11.2	3.0	31.0	-1104.1	-1653.5	1233.1
1244	ok	0.12	0.2	1.98e-02	15.7	15.7	15.7	15.7	-19.5	-1.9	-35.3	402.3	3230.1	-860.6
1245	ok	0.12	0.2	2.15e-02	15.7	15.7	15.7	15.7	-172.0	-63.6	14.4	99.8	4282.5	872.0
1246	ok	0.12	0.2	2.26e-02	15.7	15.7	15.7	15.7	-180.3	-34.5	2.6	-533.4	4940.7	296.2
1247	ok	0.12	0.2	2.13e-02	15.7	15.7	15.7	15.7	-30.8	3.5	-38.4	-357.0	4049.1	-799.3
1248	ok	0.12	9.63e-02	2.26e-02	15.7	15.7	15.7	15.7	3.4	-5.1	-36.9	-733.1	-2221.6	-1286.6
1249	ok	0.12	9.67e-02	2.25e-02	15.7	15.7	15.7	15.7	10.3	6.9	32.0	-945.3	-1350.6	1327.1
1250	ok	0.12	0.1	2.19e-02	15.7	15.7	15.7	15.7	14.3	5.5	30.5	-1062.4	-1785.5	1255.1
1251	ok	0.12	0.2	2.17e-02	15.7	15.7	15.7	15.7	-19.7	1.9	-36.3	164.9	3567.4	-1330.6
1252	ok	0.12	0.2	2.16e-02	15.7	15.7	15.7	15.7	-26.2	4.9	-37.2	-116.1	4566.8	-1105.0
1253	ok	0.12	0.2	2.09e-02	15.7	15.7	15.7	15.7	-31.1	3.2	-39.0	-521.5	4691.4	-856.6
1254	ok	0.12	0.2	1.90e-02	15.7	15.7	15.7	15.7	-26.4	7.1	-39.8	-362.8	4182.6	-492.6
1255	ok	0.12	0.1	2.23e-02	15.7	15.7	15.7	15.7	2.9	-3.5	-38.4	-728.2	-2473.9	-1112.1
1256	ok	0.12	9.53e-02	2.32e-02	15.7	15.7	15.7	15.7	9.9	7.2	32.1	-702.3	-1293.4	1348.6
1257	ok	0.12	0.1	2.31e-02	15.7	15.7	15.7	15.7	-13.0	0.8	-35.1	452.5	2001.5	-1487.2
1258	ok	0.12	0.2	2.28e-02	15.7	15.7	15.7	15.7	-22.0	1.0	-32.6	837.1	3802.3	-1609.7
1259	ok	0.12	0.3	2.21e-02	15.7	15.7	15.7	15.7	-29.3	4.5	-34.0	831.5	5427.6	-1632.3
1260	ok	0.12	0.3	2.04e-02	15.7	15.7	15.7	15.7	-40.3	1.0	-37.9	385.3	5810.1	-1151.3
1261	ok	0.12	0.2	1.83e-02	15.7	15.7	15.7	15.7	-132.1	-50.9	-41.9	-1082.2	4208.2	617.8
1262	ok	0.12	0.2	2.45e-02	15.7	15.7	15.7	15.7	-167.5	-56.3	-62.4	-3380.4	-2056.6	2205.0
1263	ok	0.12	9.30e-02	2.41e-02	15.7	15.7	15.7	15.7	6.7	4.3	34.8	-218.8	-1219.9	1482.0
1264	ok	0.12	0.1	2.35e-02	15.7	15.7	15.7	15.7	-12.8	-0.7	-30.5	1093.8	1708.6	-1316.7
1265	ok	0.12	0.2	2.29e-02	15.7	15.7	15.7	15.7	-15.9	-2.8	-32.5	1823.9	3495.5	-1655.1
1266	ok	0.12	0.3	2.27e-02	15.7	15.7	15.7	15.7	-24.4	-3.7	-30.9	2881.2	5971.5	-1927.5

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 238 di

378

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
1267	ok	0.15	0.3	2.22e-02	15.7	15.7	28.3	31.4	-20.3	8.8	-37.2	3551.3	9454.1	-2584.6
1268	ok	0.15	0.4	2.58e-02	15.7	15.7	28.3	31.4	-119.8	-238.8	18.2	-338.4	1.365e+04	-4118.6
1269	ok	0.12	0.3	3.42e-02	15.7	15.7	15.7	15.7	-282.7	-79.6	7.0	7728.3	-2417.9	-2066.2
1270	ok	0.12	9.22e-02	2.50e-02	15.7	15.7	15.7	15.7	-4.9	16.6	-32.6	495.7	-1544.9	-1044.4
...														
1449	ok	0.20	0.9	0.2	68.8	72.8	55.0	68.1	-1262.8	-1004.3	798.9	7.841e+04	6.974e+04	-4.779e+04
Nodo		x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									-1766.36	-1004.34	-3851.42	-	-	-4.779e+04
												5.529e+04	2.403e+04	
		0.66	0.96	0.33	161.16	112.24	97.39	148.44	5839.43	5103.83	1993.18	7.841e+04	6.974e+04	4.686e+04

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
1	ok	2.08						
2	ok	2.81						
4	ok Av	4.91	5.80e-03	0.17	0.2	5.6	7.3	211.1
5	ok	3.17						
15	ok	5.29						
30	ok	5.29						
39	ok	4.27						
48	ok	2.10						
57	ok	1.02						
66	ok	2.12						
75	ok	3.96						
84	ok	3.97						
93	ok	3.97						
102	ok	2.03						
111	ok	0.99						
120	ok	1.20						
129	ok	2.45						
138	ok	4.12						
147	ok	4.12						
156	ok	2.60						
165	ok	0.82						
174	ok	1.16						
183	ok	2.55						
192	ok	4.22						
201	ok Av	4.91	5.80e-03	0.17	0.2	5.6	7.3	211.1
216	ok	0.39						
217	ok	0.69						
218	ok	0.86						
219	ok	0.86						
222	ok	4.08						
237	ok	4.08						
246	ok	3.10						
255	ok	1.38						
263	ok	0.97						
271	ok	1.04						
280	ok	1.89						
289	ok	2.04						
298	ok	2.04						
306	ok	1.15						
314	ok	0.97						
323	ok	0.94						
332	ok	1.47						
341	ok	2.26						
350	ok	2.26						
359	ok	1.77						
368	ok	0.84						
376	ok	0.91						
385	ok	1.40						
394	ok	4.33						
403	ok	4.33						
419	ok	0.79						
582	ok	5.83						
590	ok Av	5.83	0.20	0.05	6.6	1.7	249.3	63.1

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 239 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
598	ok Av	5.32	0.18	0.05	5.8	1.7	221.2	63.1
606	ok	2.61						
614	ok	1.45						
622	ok	1.30						
630	ok	2.77						
637	ok	3.36						
639	ok	6.20						
645	ok	0.58						
646	ok	0.58						
647	ok	0.53						
648	ok	0.71						
651	ok Av	16.53	0.54	0.23	17.9	7.7	676.4	289.7
666	ok Av	28.29	0.88	0.40	29.3	13.2	1108.9	500.6
675	ok Av	5.24	0.04	0.18	1.3	5.8	47.4	220.3
684	ok	2.00						
692	ok	0.79						
700	ok	1.83						
709	ok Av	5.64	0.09	0.17	3.1	5.6	118.7	213.9
718	ok Av	5.64	0.09	0.17	3.1	5.8	118.7	219.6
727	ok Av	5.48	0.08	0.17	2.5	5.8	94.4	219.6
735	ok	2.11						
743	ok	0.80						
752	ok	1.06						
761	ok	2.88						
770	ok Av	5.67	0.06	0.19	1.9	6.2	72.1	236.2
779	ok Av	5.67	0.06	0.19	1.9	6.2	72.1	236.2
788	ok	3.09						
797	ok	0.73						
805	ok	0.99						
814	ok	2.70						
823	ok Av	8.68	0.07	0.30	2.4	9.8	91.7	372.7
832	ok Av	8.68	0.07	0.30	2.4	9.8	91.7	372.7
848	ok	0.77						
1011	ok	2.81						
1019	ok	1.09						
1027	ok	1.09						
1035	ok	1.75						
1043	ok	3.37						
1051	ok Av	5.70	0.19	0.03	6.4	0.9	242.5	34.6
1059	ok Av	5.70	0.19	0.03	6.4	0.9	242.5	34.6
1066	ok Av	9.26	0.28	0.29	9.3	9.6	351.0	363.1
1067	ok Av	17.47	0.26	0.57	8.8	18.8	332.3	712.7
1068	ok Av	22.23	0.66	0.39	22.1	12.8	835.4	485.7
1069	ok	2.61						
1070	ok	1.45						
1071	ok	0.75						
1072	ok	3.76						
1073	ok Av	9.26	0.18	0.29	6.1	9.6	229.2	363.1
1074	ok Av	9.26	0.18	0.29	6.1	9.7	229.2	368.7
1075	ok	8.58						
1076	ok	2.48						
1077	ok	1.39						
1078	ok	0.73						
1079	ok	3.76						
1080	ok	4.91						
1081	ok	4.91						
1082	ok	3.77						
1083	ok	2.22						
1084	ok	1.22						
1085	ok	0.94						
1086	ok	3.09						
1087	ok	2.10						
1088	ok	1.97						
1089	ok	1.62						
1090	ok	1.18						
1091	ok	0.94						
1092	ok	0.94						
1093	ok	1.38						
1094	ok	1.02						

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 240 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
1095	ok	0.85						
1096	ok	0.59						
1097	ok	0.76						
1098	ok	0.87						
1099	ok	0.93						
1100	ok	0.97						
1101	ok	2.12						
1102	ok	1.66						
1103	ok	1.30						
1104	ok	1.27						
1105	ok	1.03						
1106	ok	1.02						
1107	ok	1.04						
1108	ok Av	5.84	0.16	0.12	5.4	3.8	205.8	145.7
1109	ok Av	5.84	0.16	0.12	5.4	3.8	205.8	145.7
1110	ok	4.50						
1111	ok	1.88						
1112	ok	1.26						
1113	ok	1.04						
1114	ok	1.89						
1115	ok Av	5.84	0.16	0.15	5.4	5.1	205.8	191.5
1116	ok Av	5.84	0.16	0.15	5.4	5.1	205.8	191.5
1117	ok Av	5.30	0.15	0.13	5.1	4.2	193.1	158.2
1118	ok	2.18						
1119	ok	1.33						
1120	ok	1.05						
1121	ok	1.89						
1122	ok	5.51						
1123	ok Av	5.51	0.14	0.15	4.7	5.1	178.4	191.5
1124	ok Av	5.30	0.13	0.13	4.3	4.2	163.8	158.2
1125	ok	2.18						
1126	ok	1.33						
1127	ok	1.05						
1128	ok	1.85						
1129	ok	2.12						
1130	ok	2.12						
1131	ok	1.87						
1132	ok	1.35						
1133	ok	1.08						
1134	ok	1.01						
1135	ok	1.15						
1136	ok	0.99						
1137	ok	0.88						
1138	ok	0.68						
1139	ok	0.86						
1140	ok	0.91						
1141	ok	0.93						
1142	ok	0.97						
1143	ok	1.20						
1144	ok	1.14						
1145	ok	0.94						
1146	ok	0.92						
1147	ok	0.92						
1148	ok	0.92						
1149	ok	0.94						
1150	ok	2.99						
1151	ok	2.99						
1152	ok	2.65						
1153	ok	1.62						
1154	ok	1.16						
1155	ok	1.04						
1156	ok	1.47						
1157	ok Av	6.00	0.13	0.18	4.2	5.8	158.4	221.4
1158	ok Av	6.86	0.13	0.23	4.2	7.5	158.4	284.6
1159	ok Av	6.86	0.06	0.23	2.0	7.5	77.1	284.6
1160	ok	2.10						
1161	ok	1.26						
1162	ok	1.06						
1163	ok	2.07						
1164	ok Av	6.00	0.13	0.18	4.2	5.8	158.4	221.4

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 241 di 378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
1165	ok Av	6.86	0.13	0.23	4.2	7.5	158.4	284.6
1166	ok Av	6.86	0.06	0.23	2.0	7.5	77.1	284.6
1167	ok	2.10						
1168	ok	1.26						
1169	ok	1.06						
1170	ok	2.07						
1171	ok	3.85						
1172	ok	4.34						
1173	ok	4.34						
1174	ok	1.52						
1175	ok	1.19						
1176	ok	1.05						
1177	ok	1.77						
1178	ok	0.82						
1179	ok	0.82						
1180	ok	1.01						
1181	ok	1.01						
1182	ok	1.01						
1183	ok	0.99						
1184	ok	0.93						
1185	ok	1.16						
1186	ok	1.10						
1187	ok	0.89						
1188	ok	0.91						
1189	ok	0.95						
1190	ok	0.95						
1191	ok	0.92						
1192	ok	2.55						
1193	ok	2.50						
1194	ok	2.10						
1195	ok	1.47						
1196	ok	1.13						
1197	ok	1.10						
1198	ok	1.40						
1199	ok Av	8.69	0.16	0.25	5.4	8.3	204.5	312.7
1200	ok Av	8.69	0.16	0.25	5.4	8.3	204.5	312.7
1201	ok	6.41						
1202	ok	2.34						
1203	ok	1.29						
1204	ok	1.30						
1205	ok	4.15						
1206	ok Av	8.69	0.16	0.25	5.4	8.3	204.5	312.7
1207	ok Av	8.69	0.16	0.25	5.4	8.3	204.5	312.7
1208	ok	6.41						
1209	ok	2.34						
1210	ok	1.31						
1211	ok	1.34						
1212	ok	4.15						
1213	ok	6.18						
1214	ok	6.18						
1215	ok	4.99						
1216	ok	1.86						
1217	ok	1.86						
1218	ok	1.79						
1219	ok	3.17						
1220	ok	4.08						
1221	ok	0.61						
1222	ok	0.91						
1223	ok	1.82						
1224	ok	4.24						
1225	ok Av	17.89	0.47	0.43	15.4	14.3	584.4	542.9
1226	ok Av	10.92	0.36	0.29	11.9	9.7	452.0	367.5
1227	ok	4.08						
1228	ok	0.62						
1229	ok	0.88						
1230	ok	1.82						
1231	ok	4.24						
1232	ok Av	15.01	0.28	0.43	9.2	14.3	348.7	542.9
1233	ok Av	16.16	0.28	0.54	9.2	18.0	348.7	682.1

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 242 di
378

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
1234	ok	3.10						
1235	ok	0.79						
1236	ok	0.81						
1237	ok	1.49						
1238	ok	2.86						
1239	ok Av	6.12	0.21	0.03	6.9	0.9	260.9	32.9
1240	ok Av	6.12	0.21	0.18	6.9	5.8	260.9	220.3
1241	ok	1.24						
1242	ok	0.79						
1243	ok	0.71						
1244	ok	0.92						
1245	ok	1.27						
1246	ok	1.79						
1247	ok	2.00						
1248	ok	0.77						
1249	ok	0.73						
1250	ok	0.70						
1251	ok	0.63						
1252	ok	0.54						
1253	ok	0.65						
1254	ok	0.79						
1255	ok	0.83						
1256	ok	0.81						
1257	ok	0.79						
1258	ok	0.87						
1259	ok	1.25						
1260	ok	1.30						
1261	ok	1.83						
1262	ok	1.80						
1263	ok	0.81						
1264	ok	0.91						
1265	ok	1.35						
1266	ok	2.40						
1267	ok Av	4.89	0.16	0.06	5.2	2.0	196.4	77.3
1268	ok Av	5.64	0.16	0.17	5.2	5.6	196.4	213.9
1269	ok	2.04						
1270	ok	0.80						
...								
1449	ok Av	35.25	1.00	0.73	53.4	24.2	1418.9	917.8
Nodo		Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		36.53	1.00	0.73	53.44	24.24	1418.89	917.75

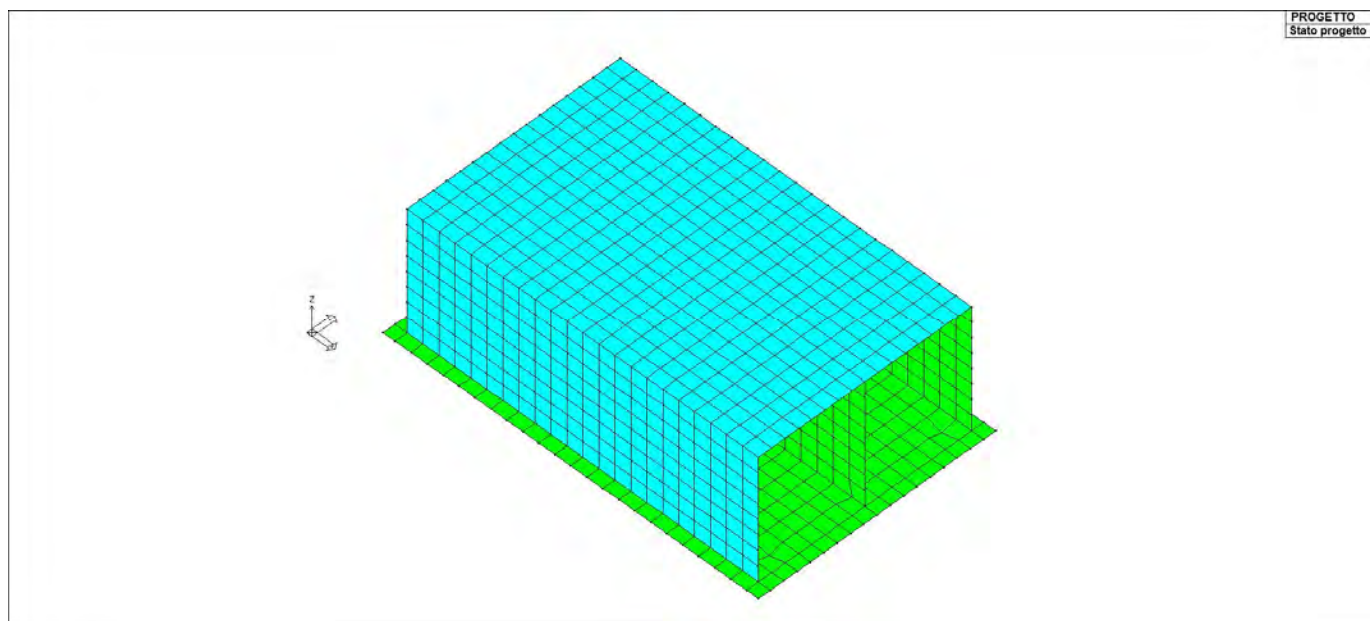


Figura 111 - CA_D3_01_Stato progetto

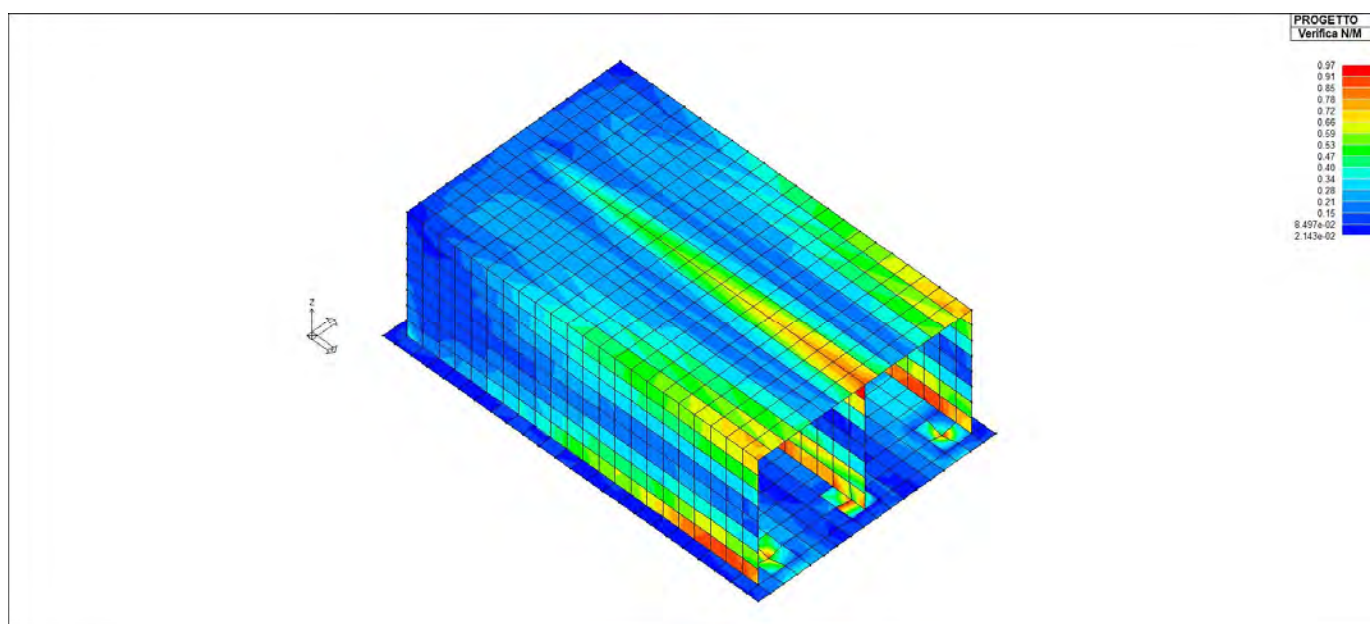


Figura 112 - CA_D3_02_Verifica NM

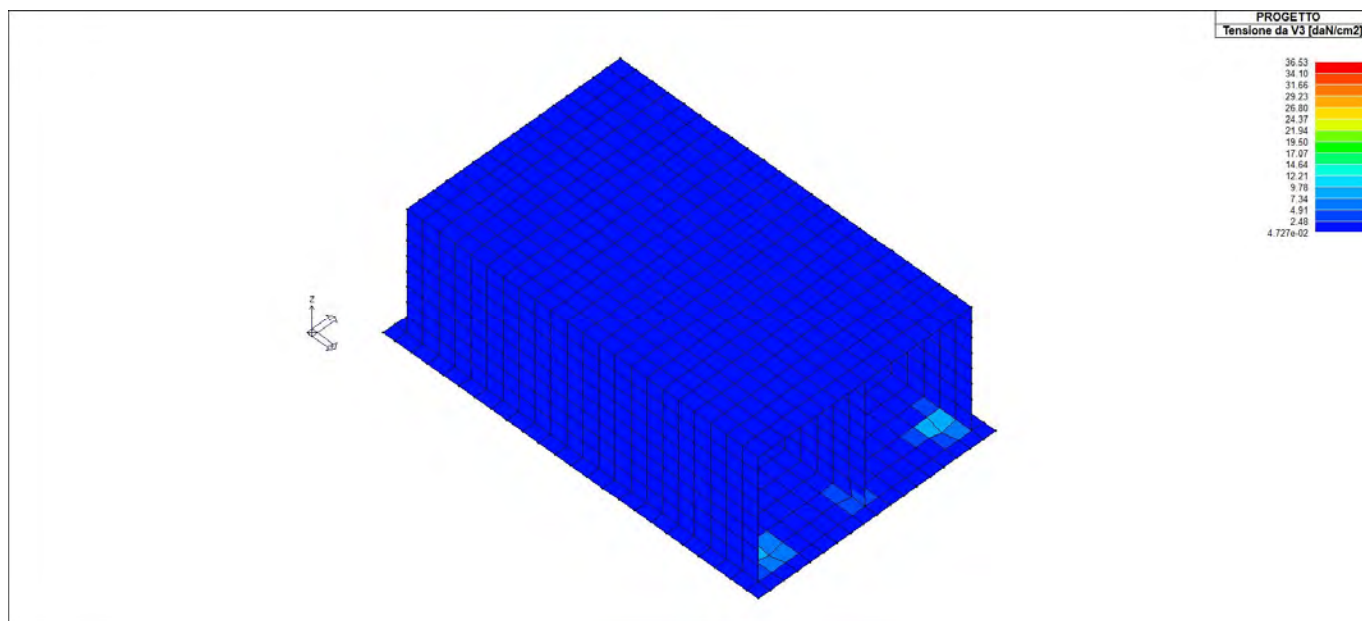


Figura 113 - CA_D3_05_Tensione da V3

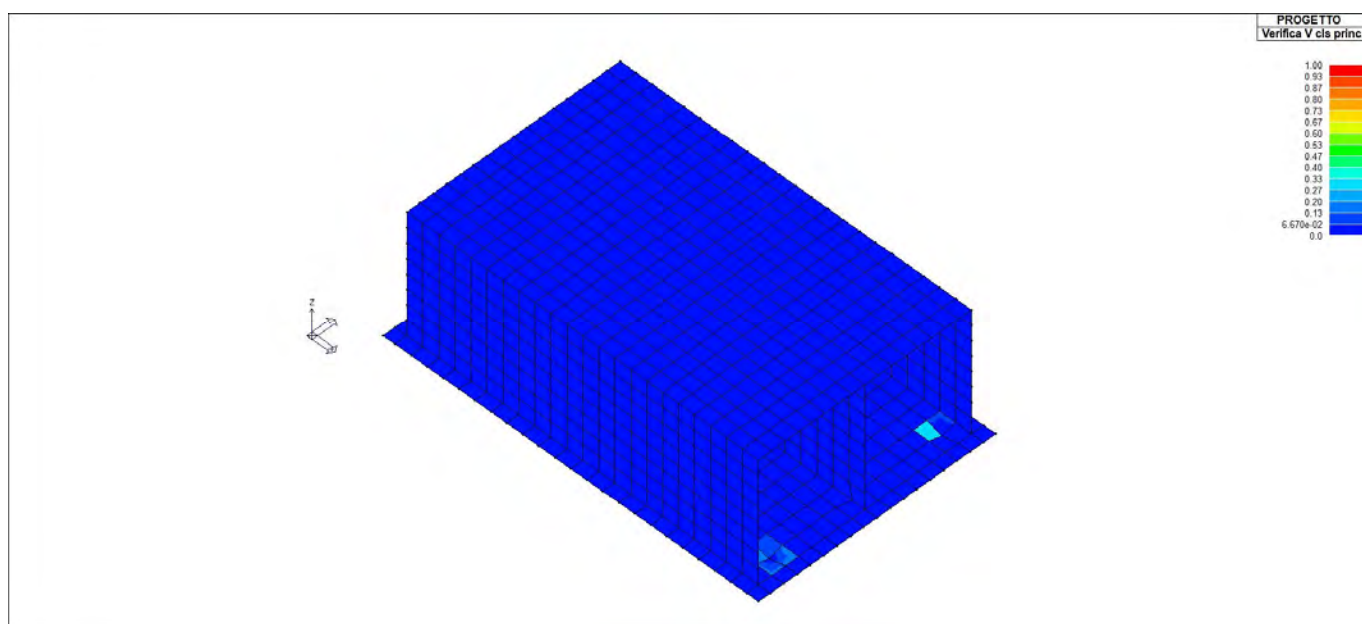


Figura 114 - CA_D3_06_Verifica V cls princ

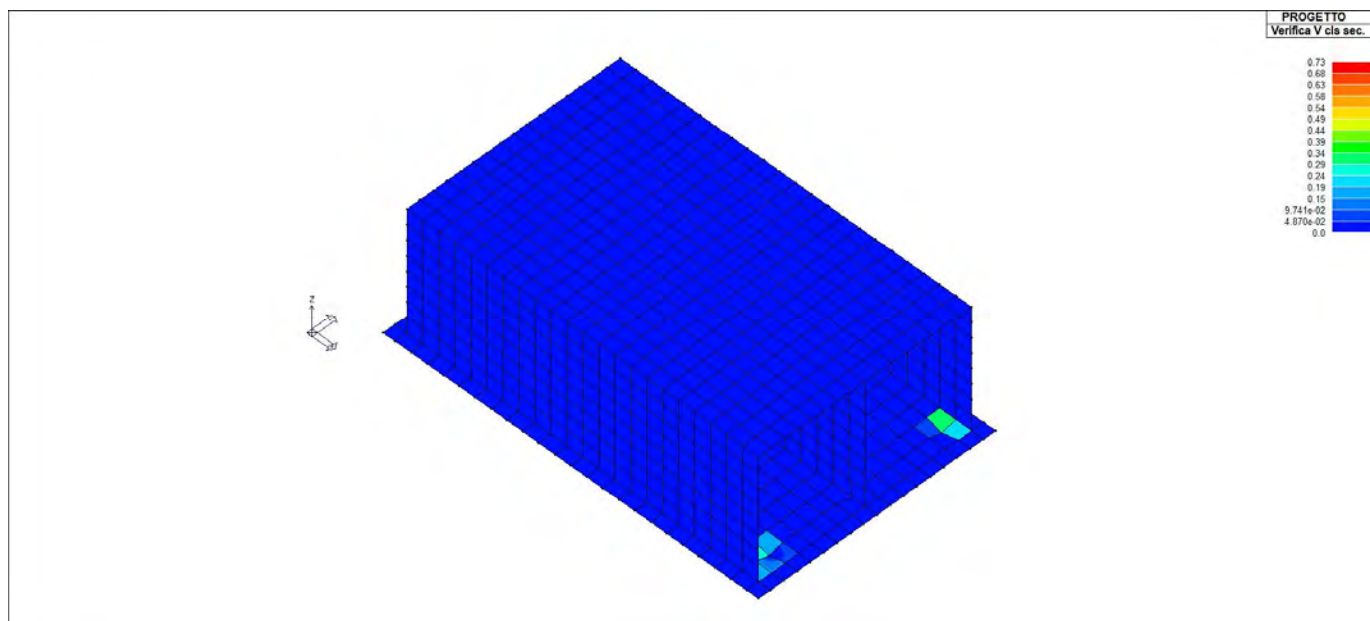


Figura 115 - CA_D3_07_Verifica V cls sec

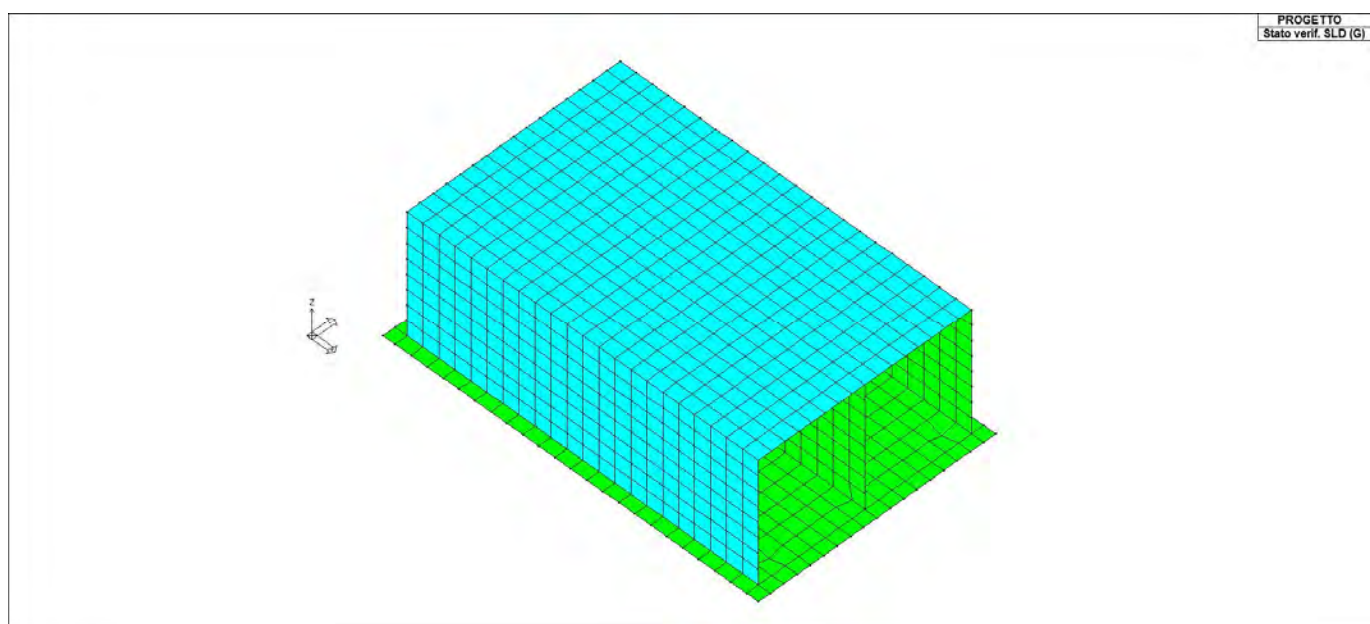


Figura 116 - CA_D3_12_Stato verif SLD G

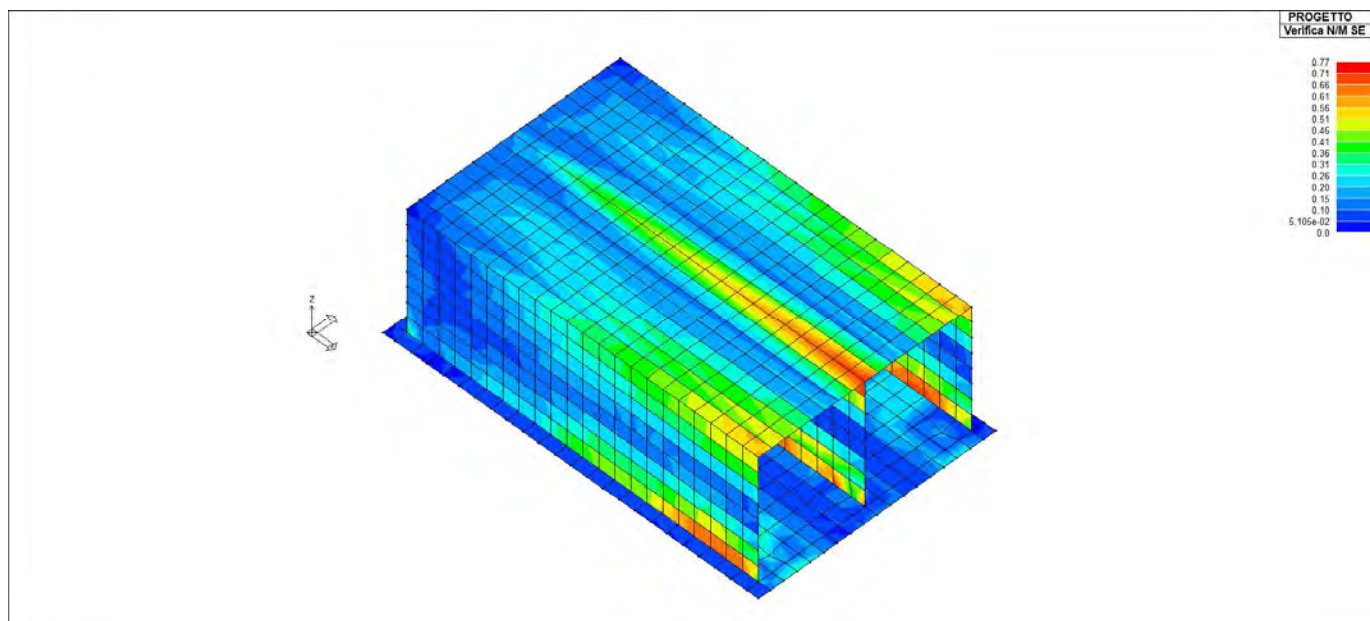


Figura 117 - CA_D3_13_Verifica NM SE

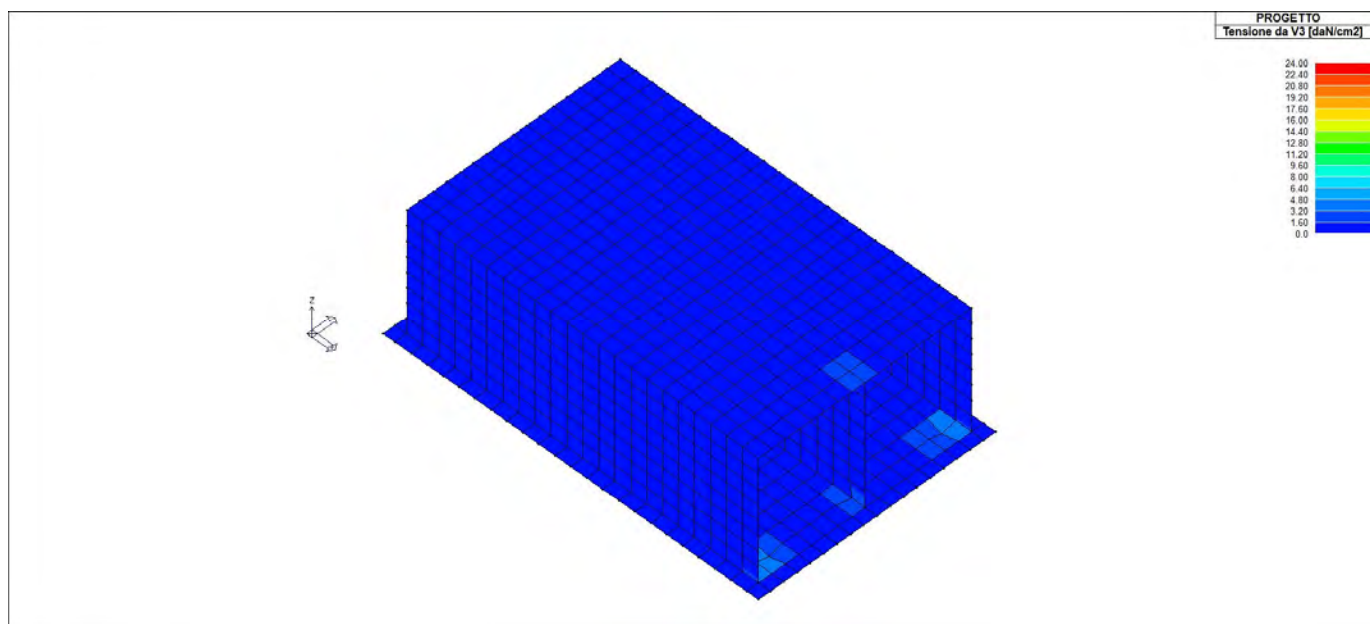


Figura 118 - CA_D3_14_Tensione da V3

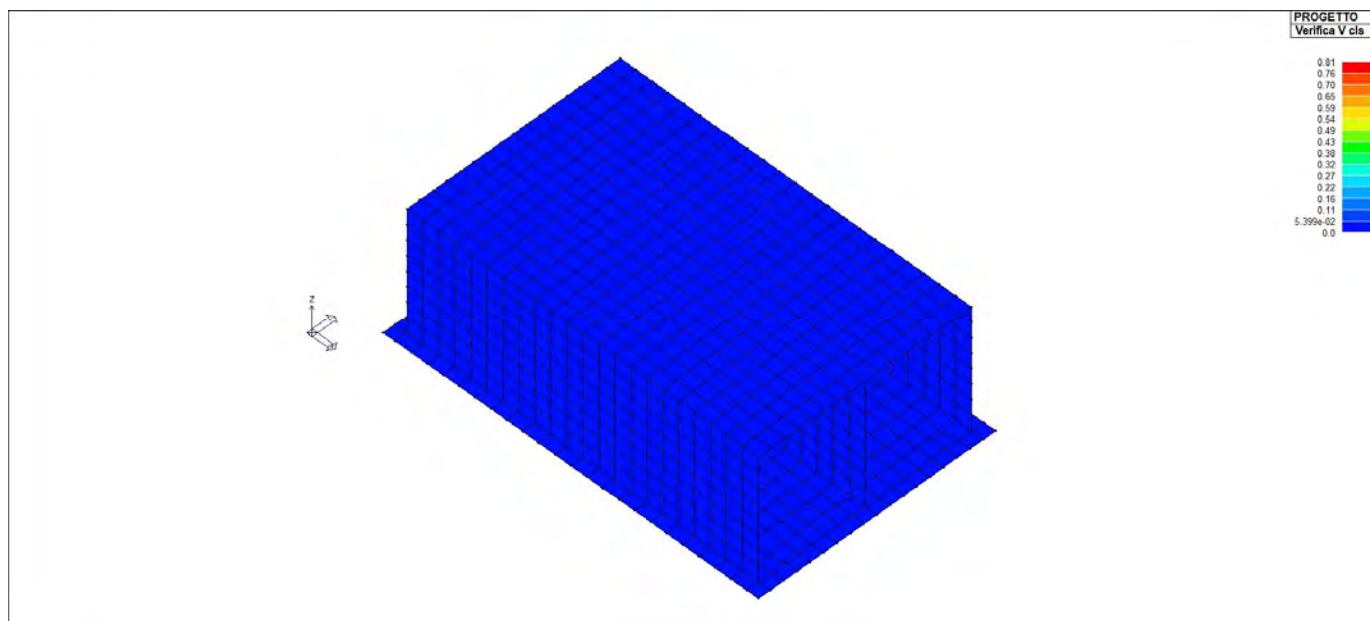


Figura 119 - CA_D3_15_Verifica V cls

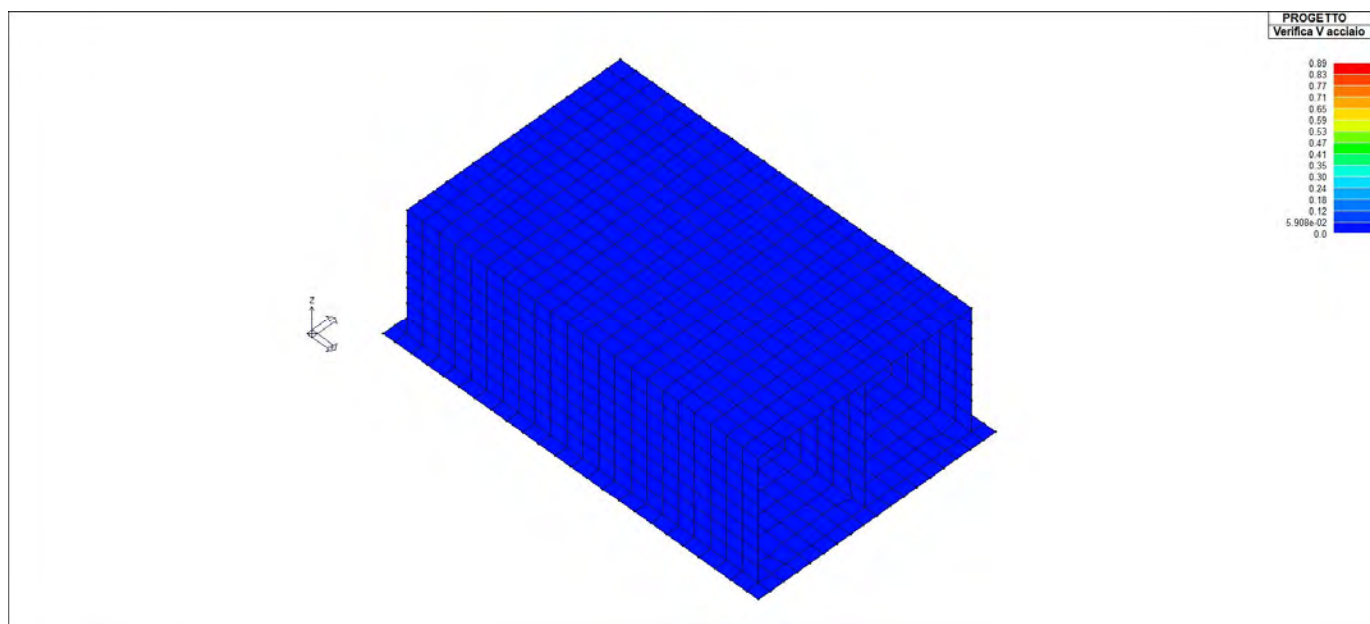


Figura 120 - CA_D3_16_Verifica V acciaio

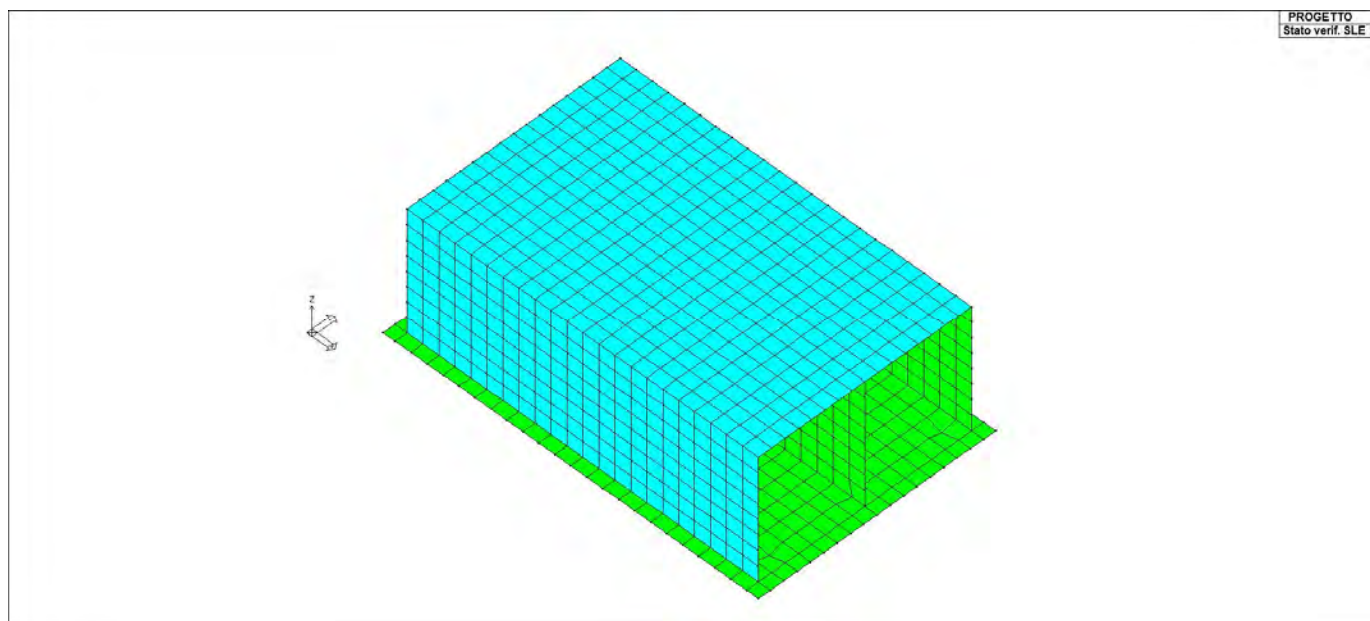


Figura 121 - CA_D3_17_Stato verif SLE

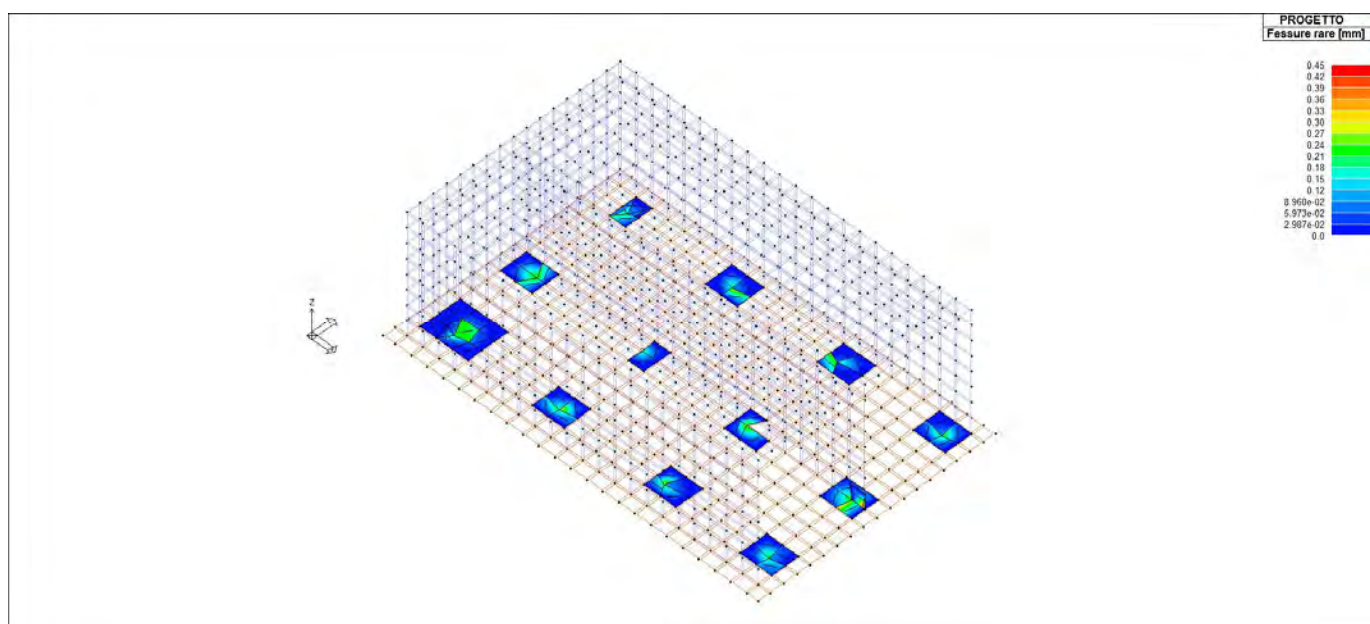


Figura 122 - CA_D3_18_Fessure rare

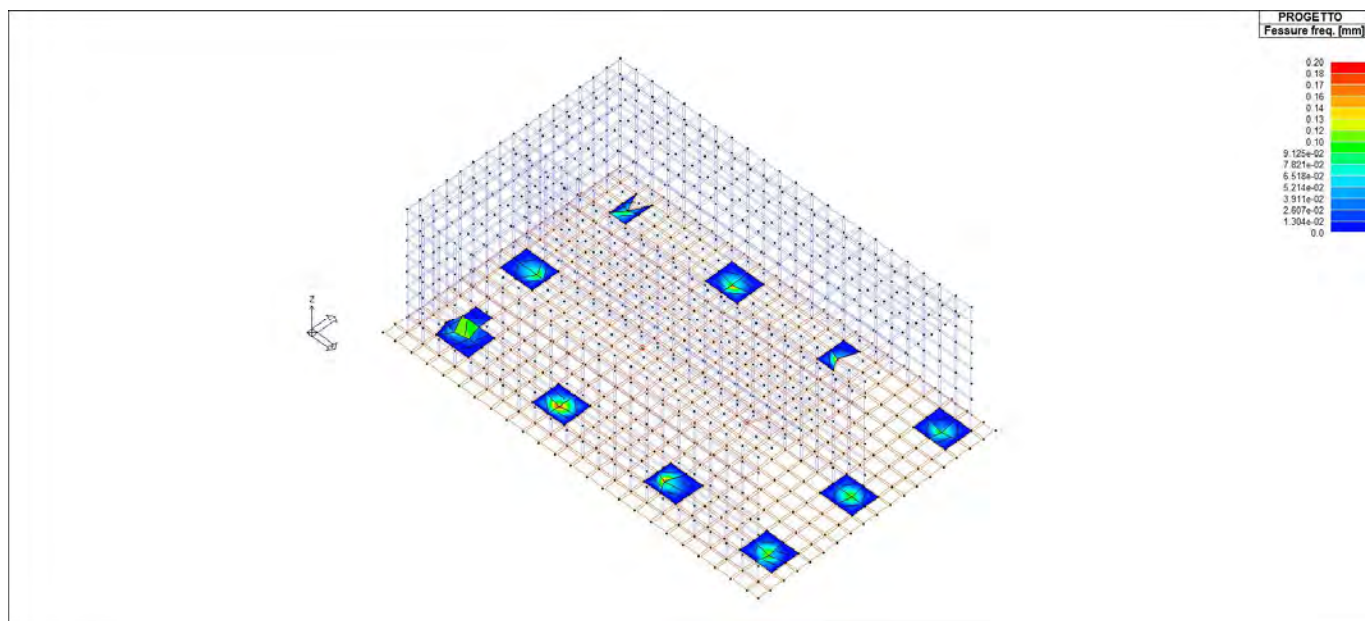


Figura 123 - CA_D3_19_Fessure freq

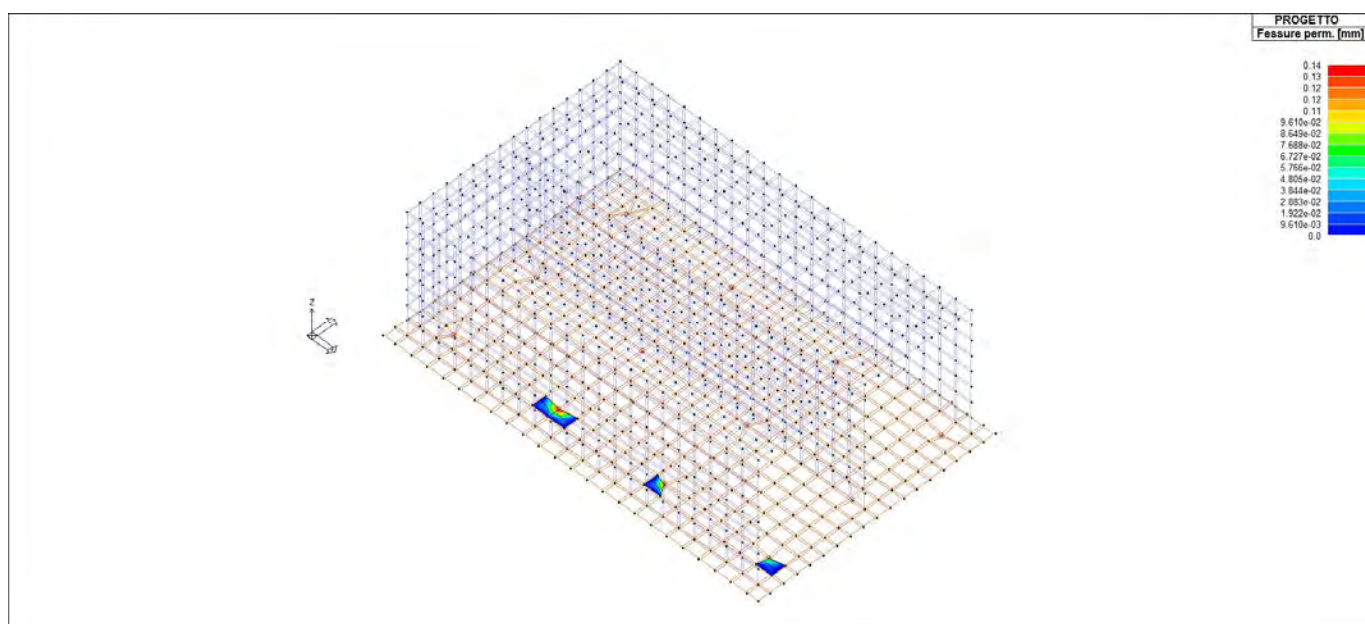


Figura 124 - CA_D3_20_Fessure perm

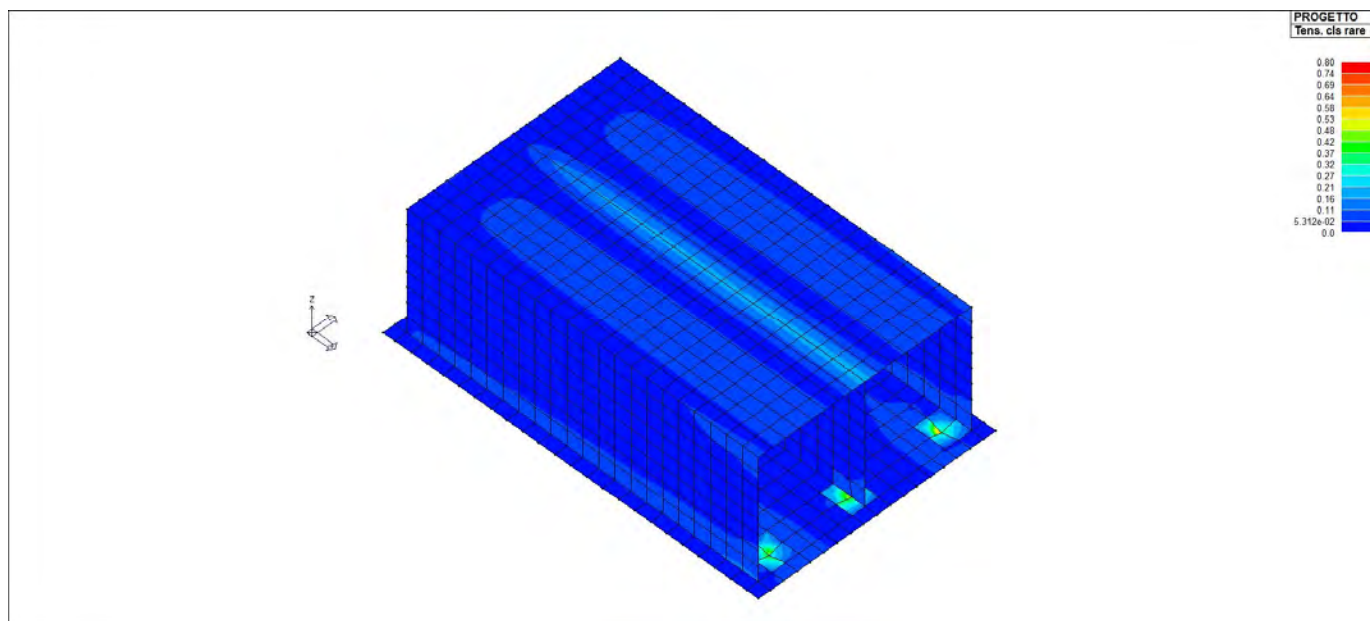


Figura 125 - CA_D3_21_Tens cls rare

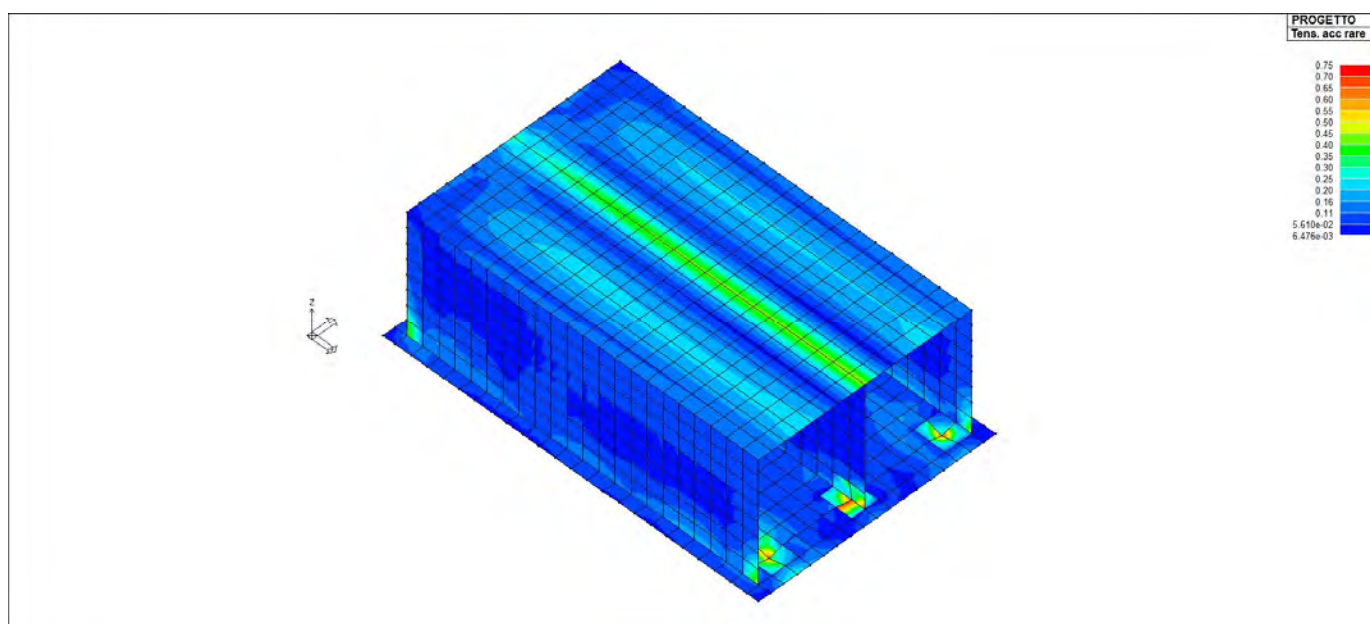


Figura 126 - CA_D3_22_Tens acc rare

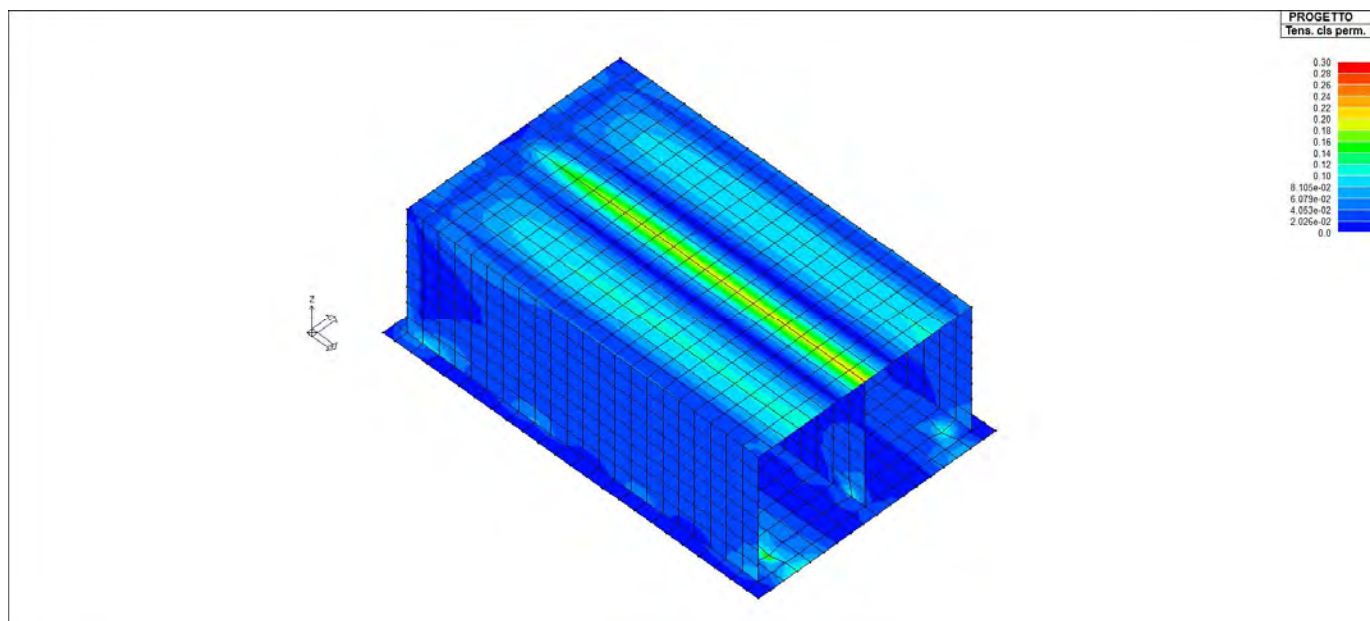


Figura 127 - CA_D3_23_Tens cls perm

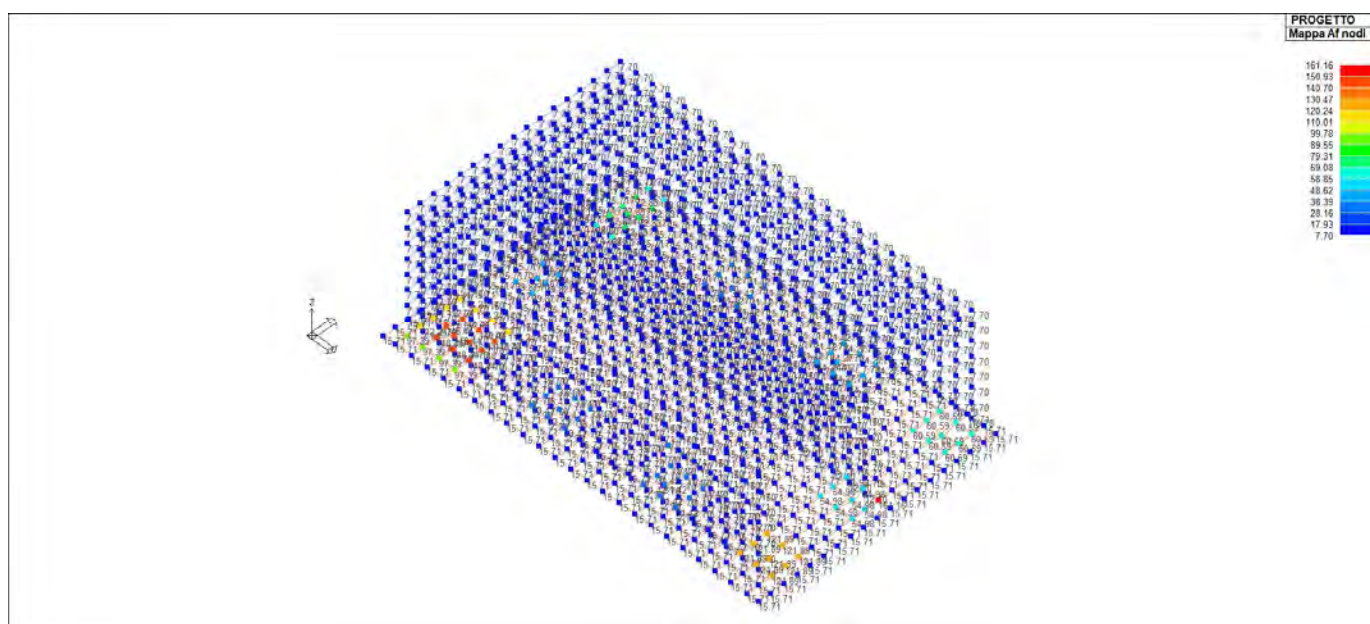


Figura 128 - CA_D3_25_Mappa Af nodi

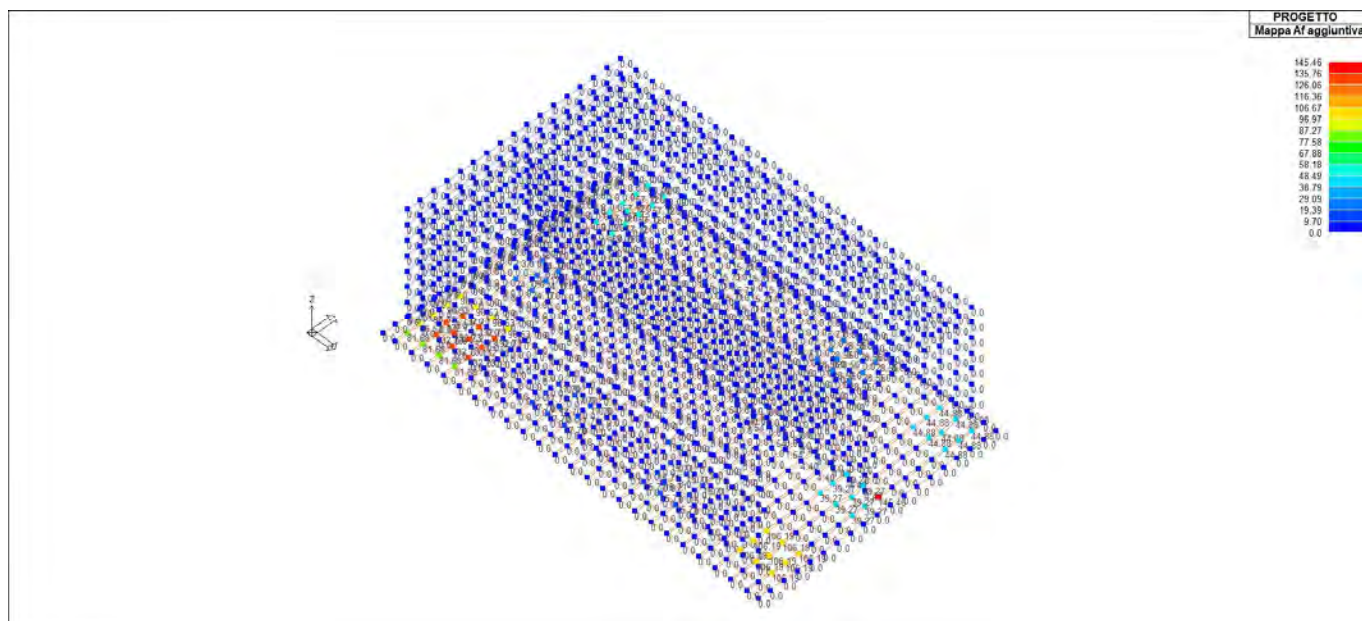


Figura 129 - CA_D3_26_Mappa Af aggiuntiva

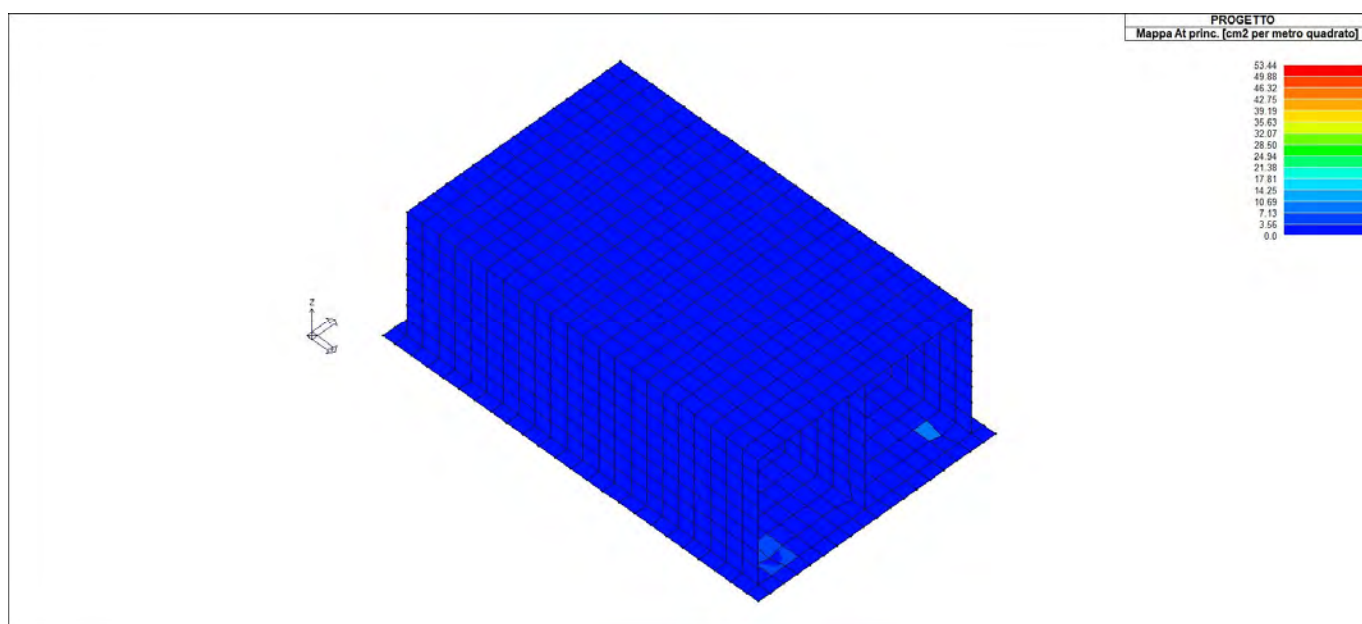


Figura 130 - CA_D3_34_Mappa At princ cm2 per metro quadrato

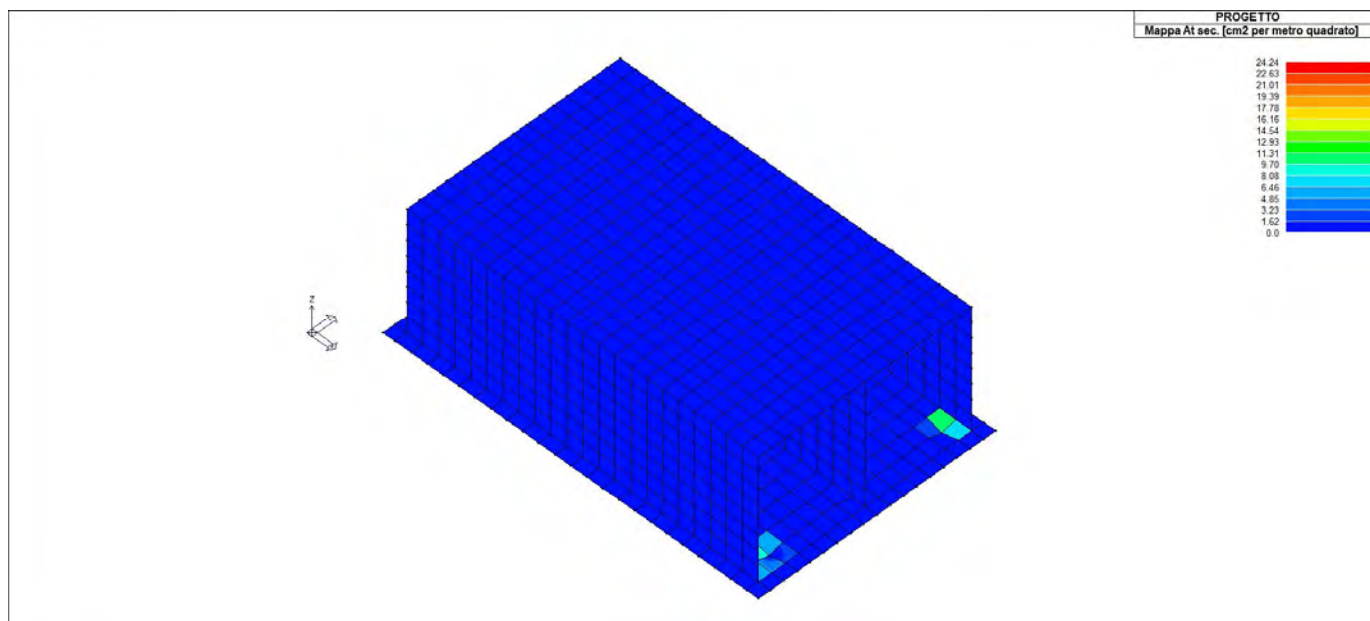


Figura 131 - CA_D3_35_Mappa At sec cm2 per metro quadrato

17 STATI LIMITE D' ESERCIZIO

17.1 LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.

In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]
dR	massima deformazione in combinazioni rare
dF	massima deformazione in combinazioni frequenti
dP	massima deformazione in combinazioni quasi permanenti

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

In relazione al tipo di elemento strutturale i valori sono selezionati nel modo seguente:

pilastr	rRfck	rRfyk	rPfck	per sezioni significative
travi	rRfck wR dR	rRfyk wF dF	rPfck wP dP	per sezioni significative per sezioni significative massimi in campata
setti e gusci	rRfck wR	rRfyk wF	rPfck wP	massimi nei nodi dell'elemento massimi nei nodi dell'elemento

Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti flettenti 3-3).

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1	0.08	0.44	0.10	177,200,215	0.0	0.0	0.0	0,0,0
2	0.05	0.37	0.05	199,200,215	0.0	0.0	0.0	0,0,0
3	0.05	0.19	0.05	203,186,215	0.0	0.0	0.0	0,0,0
4	0.04	0.13	0.04	204,172,215	0.0	0.0	0.0	0,0,0
5	0.04	0.11	0.04	204,172,215	0.0	0.0	0.0	0,0,0
6	0.04	0.10	0.04	204,172,215	0.0	0.0	0.0	0,0,0
7	0.03	0.10	0.04	192,192,215	0.0	0.0	0.0	0,0,0
8	0.03	0.09	0.03	191,192,215	0.0	0.0	0.0	0,0,0
9	0.09	0.16	0.10	190,199,215	0.0	0.0	0.0	0,0,0
10	0.04	0.15	0.05	186,199,215	0.0	0.0	0.0	0,0,0
11	0.03	0.09	0.03	204,203,215	0.0	0.0	0.0	0,0,0
12	0.02	0.06	0.02	176,200,215	0.0	0.0	0.0	0,0,0
13	0.02	0.05	0.02	172,176,215	0.0	0.0	0.0	0,0,0
14	0.02	0.05	0.02	172,176,215	0.0	0.0	0.0	0,0,0
15	0.02	0.05	0.02	191,164,215	0.0	0.0	0.0	0,0,0
16	0.04	0.06	0.04	177,177,215	0.0	0.0	0.0	0,0,0
17	0.09	0.15	0.09	186,185,215	0.0	0.0	0.0	0,0,0
18	0.05	0.14	0.05	172,199,215	0.0	0.0	0.0	0,0,0
19	0.03	0.10	0.03	200,203,215	0.0	0.0	0.0	0,0,0
20	0.02	0.07	0.02	204,203,215	0.0	0.0	0.0	0,0,0
21	0.02	0.05	0.01	204,203,215	0.0	0.0	0.0	0,0,0
22	0.02	0.04	0.02	204,203,215	0.0	0.0	0.0	0,0,0
23	0.03	0.04	0.03	191,204,215	0.0	0.0	0.0	0,0,0
24	0.05	0.07	0.05	177,177,215	0.0	0.0	0.0	0,0,0
25	0.08	0.15	0.05	186,185,215	0.0	0.0	0.0	0,0,0
26	0.05	0.12	0.05	186,171,215	0.0	0.0	0.0	0,0,0
27	0.04	0.09	0.03	200,203,215	0.0	0.0	0.0	0,0,0
28	0.03	0.07	0.03	204,204,215	0.0	0.0	0.0	0,0,0
29	0.02	0.06	0.02	204,203,215	0.0	0.0	0.0	0,0,0
30	0.03	0.05	0.02	203,203,215	0.0	0.0	0.0	0,0,0
31	0.04	0.04	0.04	191,192,215	0.0	0.0	0.0	0,0,0
32	0.05	0.08	0.05	177,177,215	0.0	0.0	0.0	0,0,0
33	0.07	0.15	0.04	186,190,215	0.0	0.0	0.0	0,0,0
34	0.05	0.12	0.04	186,186,215	0.0	0.0	0.0	0,0,0
35	0.04	0.08	0.03	200,200,215	0.0	0.0	0.0	0,0,0
36	0.03	0.06	0.03	200,204,215	0.0	0.0	0.0	0,0,0
37	0.03	0.05	0.02	204,203,215	0.0	0.0	0.0	0,0,0
38	0.03	0.05	0.03	203,203,215	0.0	0.0	0.0	0,0,0
39	0.04	0.05	0.04	191,191,215	0.0	0.0	0.0	0,0,0
40	0.05	0.08	0.05	177,177,215	0.0	0.0	0.0	0,0,0
41	0.07	0.15	0.04	190,190,215	0.0	0.0	0.0	0,0,0
42	0.05	0.11	0.04	186,186,215	0.0	0.0	0.0	0,0,0
43	0.04	0.07	0.03	172,200,215	0.0	0.0	0.0	0,0,0
44	0.03	0.05	0.03	200,200,215	0.0	0.0	0.0	0,0,0
45	0.03	0.05	0.03	204,203,215	0.0	0.0	0.0	0,0,0
46	0.03	0.05	0.03	203,203,215	0.0	0.0	0.0	0,0,0
47	0.04	0.05	0.04	191,203,215	0.0	0.0	0.0	0,0,0
48	0.05	0.08	0.05	177,177,215	0.0	0.0	0.0	0,0,0
49	0.09	0.14	0.05	190,190,215	0.0	0.0	0.0	0,0,0
50	0.06	0.09	0.04	186,186,215	0.0	0.0	0.0	0,0,0
51	0.04	0.06	0.03	172,171,215	0.0	0.0	0.0	0,0,0
52	0.04	0.05	0.03	200,199,215	0.0	0.0	0.0	0,0,0
53	0.03	0.05	0.03	204,203,215	0.0	0.0	0.0	0,0,0
54	0.04	0.05	0.03	203,203,215	0.0	0.0	0.0	0,0,0
55	0.04	0.06	0.04	191,203,215	0.0	0.0	0.0	0,0,0
56	0.05	0.08	0.05	177,177,215	0.0	0.0	0.0	0,0,0
57	0.10	0.12	0.07	190,186,215	0.0	0.0	0.0	0,0,0
58	0.06	0.09	0.04	186,185,215	0.0	0.0	0.0	0,0,0
59	0.04	0.08	0.03	172,171,215	0.0	0.0	0.0	0,0,0
60	0.04	0.07	0.03	200,199,215	0.0	0.0	0.0	0,0,0
61	0.04	0.06	0.03	204,203,215	0.0	0.0	0.0	0,0,0
62	0.04	0.06	0.03	203,203,215	0.0	0.0	0.0	0,0,0
63	0.04	0.06	0.04	191,203,215	0.0	0.0	0.0	0,0,0
64	0.05	0.07	0.04	177,191,215	0.0	0.0	0.0	0,0,0
65	0.10	0.11	0.07	190,190,215	0.0	0.0	0.0	0,0,0
66	0.06	0.10	0.04	186,185,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 256 di
378

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
67	0.04	0.08	0.03	172,199,215	0.0	0.0	0.0	0,0,0
68	0.04	0.07	0.03	200,203,215	0.0	0.0	0.0	0,0,0
69	0.04	0.06	0.03	204,203,215	0.0	0.0	0.0	0,0,0
70	0.04	0.07	0.03	203,203,215	0.0	0.0	0.0	0,0,0
71	0.04	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
72	0.05	0.07	0.04	191,203,215	0.0	0.0	0.0	0,0,0
73	0.09	0.14	0.05	190,190,215	0.0	0.0	0.0	0,0,0
74	0.06	0.10	0.04	186,190,215	0.0	0.0	0.0	0,0,0
75	0.04	0.07	0.04	186,199,215	0.0	0.0	0.0	0,0,0
76	0.04	0.07	0.03	200,203,215	0.0	0.0	0.0	0,0,0
77	0.04	0.07	0.03	204,203,215	0.0	0.0	0.0	0,0,0
78	0.04	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
79	0.04	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
80	0.05	0.08	0.04	191,203,215	0.0	0.0	0.0	0,0,0
81	0.08	0.15	0.03	190,190,215	0.0	0.0	0.0	0,0,0
82	0.06	0.11	0.03	186,190,215	0.0	0.0	0.0	0,0,0
83	0.04	0.06	0.03	186,186,215	0.0	0.0	0.0	0,0,0
84	0.04	0.06	0.03	200,204,215	0.0	0.0	0.0	0,0,0
85	0.04	0.06	0.03	203,204,215	0.0	0.0	0.0	0,0,0
86	0.04	0.07	0.04	203,204,215	0.0	0.0	0.0	0,0,0
87	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
88	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
89	0.07	0.15	0.03	190,190,215	0.0	0.0	0.0	0,0,0
90	0.06	0.11	0.03	186,190,215	0.0	0.0	0.0	0,0,0
91	0.04	0.06	0.03	186,186,215	0.0	0.0	0.0	0,0,0
92	0.04	0.05	0.03	200,204,215	0.0	0.0	0.0	0,0,0
93	0.04	0.06	0.03	203,204,215	0.0	0.0	0.0	0,0,0
94	0.05	0.07	0.04	203,204,215	0.0	0.0	0.0	0,0,0
95	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
96	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
97	0.09	0.15	0.03	190,190,215	0.0	0.0	0.0	0,0,0
98	0.06	0.10	0.03	190,190,215	0.0	0.0	0.0	0,0,0
99	0.04	0.06	0.03	186,186,215	0.0	0.0	0.0	0,0,0
100	0.04	0.04	0.03	200,204,215	0.0	0.0	0.0	0,0,0
101	0.04	0.06	0.03	203,204,215	0.0	0.0	0.0	0,0,0
102	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
103	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
104	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
105	0.10	0.13	0.05	190,190,215	0.0	0.0	0.0	0,0,0
106	0.06	0.09	0.03	190,189,215	0.0	0.0	0.0	0,0,0
107	0.04	0.05	0.03	186,185,215	0.0	0.0	0.0	0,0,0
108	0.04	0.04	0.03	204,204,215	0.0	0.0	0.0	0,0,0
109	0.04	0.06	0.03	203,204,215	0.0	0.0	0.0	0,0,0
110	0.05	0.07	0.04	203,204,215	0.0	0.0	0.0	0,0,0
111	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
112	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
113	0.11	0.12	0.06	190,190,215	0.0	0.0	0.0	0,0,0
114	0.06	0.09	0.04	186,185,215	0.0	0.0	0.0	0,0,0
115	0.04	0.06	0.03	186,185,215	0.0	0.0	0.0	0,0,0
116	0.04	0.05	0.03	204,204,215	0.0	0.0	0.0	0,0,0
117	0.04	0.06	0.03	204,204,215	0.0	0.0	0.0	0,0,0
118	0.05	0.07	0.04	203,204,215	0.0	0.0	0.0	0,0,0
119	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
120	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
121	0.10	0.16	0.05	190,190,215	0.0	0.0	0.0	0,0,0
122	0.07	0.10	0.04	190,190,215	0.0	0.0	0.0	0,0,0
123	0.05	0.06	0.03	186,186,215	0.0	0.0	0.0	0,0,0
124	0.04	0.05	0.03	204,204,215	0.0	0.0	0.0	0,0,0
125	0.04	0.06	0.03	203,204,215	0.0	0.0	0.0	0,0,0
126	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
127	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
128	0.05	0.09	0.04	203,203,215	0.0	0.0	0.0	0,0,0
129	0.09	0.18	0.03	190,190,215	0.0	0.0	0.0	0,0,0
130	0.07	0.13	0.03	190,190,215	0.0	0.0	0.0	0,0,0
131	0.05	0.07	0.03	186,186,215	0.0	0.0	0.0	0,0,0
132	0.04	0.05	0.03	158,204,215	0.0	0.0	0.0	0,0,0
133	0.04	0.06	0.04	203,204,215	0.0	0.0	0.0	0,0,0
134	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
135	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 257 di
378

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
136	0.05	0.09	0.04	203,203,215	0.0	0.0	0.0	0,0,0
137	0.08	0.18	0.03	190,190,215	0.0	0.0	0.0	0,0,0
138	0.07	0.13	0.03	190,190,215	0.0	0.0	0.0	0,0,0
139	0.05	0.07	0.03	186,186,215	0.0	0.0	0.0	0,0,0
140	0.04	0.04	0.04	158,204,215	0.0	0.0	0.0	0,0,0
141	0.04	0.06	0.04	203,204,215	0.0	0.0	0.0	0,0,0
142	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
143	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
144	0.05	0.09	0.04	203,203,215	0.0	0.0	0.0	0,0,0
145	0.09	0.19	0.03	190,190,215	0.0	0.0	0.0	0,0,0
146	0.07	0.14	0.03	190,190,215	0.0	0.0	0.0	0,0,0
147	0.05	0.08	0.03	186,190,215	0.0	0.0	0.0	0,0,0
148	0.04	0.04	0.04	204,203,215	0.0	0.0	0.0	0,0,0
149	0.04	0.06	0.04	203,203,215	0.0	0.0	0.0	0,0,0
150	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
151	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
152	0.05	0.09	0.04	203,203,215	0.0	0.0	0.0	0,0,0
153	0.11	0.18	0.04	190,190,215	0.0	0.0	0.0	0,0,0
154	0.07	0.13	0.03	190,190,215	0.0	0.0	0.0	0,0,0
155	0.05	0.07	0.03	186,189,215	0.0	0.0	0.0	0,0,0
156	0.04	0.05	0.04	200,200,215	0.0	0.0	0.0	0,0,0
157	0.04	0.06	0.04	204,200,215	0.0	0.0	0.0	0,0,0
158	0.05	0.07	0.04	203,203,215	0.0	0.0	0.0	0,0,0
159	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
160	0.06	0.10	0.04	203,203,215	0.0	0.0	0.0	0,0,0
161	0.12	0.16	0.06	190,189,215	0.0	0.0	0.0	0,0,0
162	0.07	0.12	0.04	190,186,215	0.0	0.0	0.0	0,0,0
163	0.05	0.10	0.04	186,186,215	0.0	0.0	0.0	0,0,0
164	0.04	0.08	0.03	158,200,215	0.0	0.0	0.0	0,0,0
165	0.04	0.07	0.03	204,200,215	0.0	0.0	0.0	0,0,0
166	0.05	0.07	0.03	203,200,215	0.0	0.0	0.0	0,0,0
167	0.05	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
168	0.06	0.10	0.04	203,203,215	0.0	0.0	0.0	0,0,0
169	0.12	0.47	0.08	189,186,215	0.0	0.0	0.0	0,0,0
170	0.08	0.31	0.06	190,186,215	0.0	0.0	0.0	0,0,0
171	0.06	0.17	0.04	186,186,215	0.0	0.0	0.0	0,0,0
172	0.04	0.11	0.04	158,158,215	0.0	0.0	0.0	0,0,0
173	0.04	0.09	0.03	204,200,215	0.0	0.0	0.0	0,0,0
174	0.05	0.08	0.04	203,200,215	0.0	0.0	0.0	0,0,0
175	0.06	0.08	0.04	203,203,215	0.0	0.0	0.0	0,0,0
176	0.06	0.10	0.04	203,203,215	0.0	0.0	0.0	0,0,0
177	0.09	0.45	0.11	199,200,215	0.0	0.0	0.0	0,0,0
178	0.03	0.17	0.04	191,200,215	0.0	0.0	0.0	0,0,0
179	0.02	0.17	0.02	186,200,215	0.0	0.0	0.0	0,0,0
180	0.02	0.17	0.02	200,172,215	0.0	0.0	0.0	0,0,0
181	0.02	0.14	0.01	200,172,215	0.0	0.0	0.0	0,0,0
182	0.01	0.13	9.03e-03	200,172,215	0.0	0.0	0.0	0,0,0
183	0.01	0.12	7.36e-03	200,172,215	0.0	0.0	0.0	0,0,0
184	0.01	0.11	6.62e-03	200,200,215	0.0	0.0	0.0	0,0,0
185	0.16	0.75	0.19	200,200,215	0.0	0.0	0.0	0,0,0
186	0.05	0.15	0.04	200,172,215	0.0	0.0	0.0	0,0,0
187	0.03	0.14	0.03	200,172,215	0.0	0.0	0.0	0,0,0
188	0.02	0.14	0.02	172,172,215	0.0	0.0	0.0	0,0,0
189	0.02	0.13	0.01	200,200,215	0.0	0.0	0.0	0,0,0
190	0.02	0.12	0.01	200,200,215	0.0	0.0	0.0	0,0,0
191	0.01	0.11	9.96e-03	200,200,215	0.0	0.0	0.0	0,0,0
192	0.01	0.10	9.11e-03	200,172,215	0.0	0.0	0.0	0,0,0
193	0.06	0.11	0.04	200,199,215	0.0	0.0	0.0	0,0,0
194	0.05	0.08	0.04	200,200,215	0.0	0.0	0.0	0,0,0
195	0.03	0.09	0.02	200,200,215	0.0	0.0	0.0	0,0,0
196	0.02	0.09	0.02	172,200,215	0.0	0.0	0.0	0,0,0
197	0.02	0.09	0.01	200,200,215	0.0	0.0	0.0	0,0,0
198	0.02	0.10	0.01	200,200,215	0.0	0.0	0.0	0,0,0
199	0.02	0.10	0.01	200,200,215	0.0	0.0	0.0	0,0,0
200	0.01	0.09	0.01	200,172,215	0.0	0.0	0.0	0,0,0
201	0.03	0.10	0.02	200,199,215	0.0	0.0	0.0	0,0,0
202	0.03	0.06	0.02	200,199,215	0.0	0.0	0.0	0,0,0
203	0.02	0.04	0.02	200,171,215	0.0	0.0	0.0	0,0,0
204	0.02	0.05	0.02	200,200,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 258 di
378

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
205	0.02	0.07	0.01	186,200,215	0.0	0.0	0.0	0,0,0
206	0.02	0.08	0.01	200,172,215	0.0	0.0	0.0	0,0,0
207	0.02	0.09	0.01	200,172,215	0.0	0.0	0.0	0,0,0
208	0.02	0.09	0.01	200,200,215	0.0	0.0	0.0	0,0,0
209	0.02	0.09	0.01	203,199,215	0.0	0.0	0.0	0,0,0
210	0.02	0.04	0.01	200,199,215	0.0	0.0	0.0	0,0,0
211	0.02	0.01	0.02	200,200,215	0.0	0.0	0.0	0,0,0
212	0.02	0.02	0.02	200,200,215	0.0	0.0	0.0	0,0,0
213	0.02	0.05	0.01	186,200,215	0.0	0.0	0.0	0,0,0
214	0.02	0.07	0.01	200,172,215	0.0	0.0	0.0	0,0,0
215	0.02	0.08	0.01	200,172,215	0.0	0.0	0.0	0,0,0
216	0.02	0.09	0.01	200,200,215	0.0	0.0	0.0	0,0,0
217	0.02	0.07	0.02	203,199,215	0.0	0.0	0.0	0,0,0
218	0.02	0.03	0.02	204,199,215	0.0	0.0	0.0	0,0,0
219	0.02	0.02	0.02	200,199,215	0.0	0.0	0.0	0,0,0
220	0.02	0.01	0.02	200,199,215	0.0	0.0	0.0	0,0,0
221	0.02	0.03	0.02	186,200,215	0.0	0.0	0.0	0,0,0
222	0.02	0.05	0.01	200,172,215	0.0	0.0	0.0	0,0,0
223	0.02	0.07	0.01	200,186,215	0.0	0.0	0.0	0,0,0
224	0.02	0.09	0.01	204,200,215	0.0	0.0	0.0	0,0,0
225	0.03	0.07	0.03	203,199,215	0.0	0.0	0.0	0,0,0
226	0.03	0.06	0.03	204,199,215	0.0	0.0	0.0	0,0,0
227	0.03	0.05	0.03	204,199,215	0.0	0.0	0.0	0,0,0
228	0.02	0.03	0.02	200,199,215	0.0	0.0	0.0	0,0,0
229	0.02	0.02	0.02	200,200,215	0.0	0.0	0.0	0,0,0
230	0.02	0.04	0.02	200,172,215	0.0	0.0	0.0	0,0,0
231	0.02	0.06	0.01	204,200,215	0.0	0.0	0.0	0,0,0
232	0.02	0.08	0.01	204,200,215	0.0	0.0	0.0	0,0,0
233	0.11	0.33	0.13	191,204,215	0.0	0.0	0.0	0,0,0
234	0.05	0.09	0.05	204,199,215	0.0	0.0	0.0	0,0,0
235	0.03	0.07	0.03	204,199,215	0.0	0.0	0.0	0,0,0
236	0.02	0.04	0.02	204,199,215	0.0	0.0	0.0	0,0,0
237	0.02	0.02	0.02	200,171,215	0.0	0.0	0.0	0,0,0
238	0.02	0.03	0.02	186,172,215	0.0	0.0	0.0	0,0,0
239	0.02	0.05	0.01	204,200,215	0.0	0.0	0.0	0,0,0
240	0.02	0.08	0.01	204,200,215	0.0	0.0	0.0	0,0,0
241	0.11	0.36	0.14	172,203,215	0.0	0.0	0.0	0,0,0
242	0.05	0.12	0.05	204,199,215	0.0	0.0	0.0	0,0,0
243	0.03	0.07	0.03	204,199,215	0.0	0.0	0.0	0,0,0
244	0.02	0.04	0.02	200,199,215	0.0	0.0	0.0	0,0,0
245	0.02	0.02	0.02	200,171,215	0.0	0.0	0.0	0,0,0
246	0.02	0.02	0.02	186,172,215	0.0	0.0	0.0	0,0,0
247	0.02	0.04	0.01	204,200,215	0.0	0.0	0.0	0,0,0
248	0.02	0.07	0.01	204,200,215	0.0	0.0	0.0	0,0,0
249	0.04	0.12	0.03	204,199,215	0.0	0.0	0.0	0,0,0
250	0.04	0.08	0.03	204,199,215	0.0	0.0	0.0	0,0,0
251	0.03	0.06	0.03	204,199,215	0.0	0.0	0.0	0,0,0
252	0.02	0.03	0.02	204,199,215	0.0	0.0	0.0	0,0,0
253	0.02	0.02	0.02	200,171,215	0.0	0.0	0.0	0,0,0
254	0.02	0.01	0.01	204,186,215	0.0	0.0	0.0	0,0,0
255	0.02	0.04	0.01	204,200,215	0.0	0.0	0.0	0,0,0
256	0.02	0.07	0.01	203,200,215	0.0	0.0	0.0	0,0,0
257	0.04	0.11	0.02	203,199,215	0.0	0.0	0.0	0,0,0
258	0.03	0.06	0.02	203,199,215	0.0	0.0	0.0	0,0,0
259	0.02	0.04	0.02	204,199,215	0.0	0.0	0.0	0,0,0
260	0.02	0.02	0.02	204,199,215	0.0	0.0	0.0	0,0,0
261	0.02	0.01	0.02	200,200,215	0.0	0.0	0.0	0,0,0
262	0.02	0.01	0.01	204,186,215	0.0	0.0	0.0	0,0,0
263	0.02	0.03	0.01	204,200,215	0.0	0.0	0.0	0,0,0
264	0.02	0.06	0.01	203,200,215	0.0	0.0	0.0	0,0,0
265	0.04	0.10	0.01	203,199,215	0.0	0.0	0.0	0,0,0
266	0.03	0.04	0.01	203,203,215	0.0	0.0	0.0	0,0,0
267	0.02	0.01	0.01	204,200,215	0.0	0.0	0.0	0,0,0
268	0.02	0.01	0.01	200,200,215	0.0	0.0	0.0	0,0,0
269	0.01	0.01	0.01	186,186,215	0.0	0.0	0.0	0,0,0
270	0.02	0.01	0.01	190,204,215	0.0	0.0	0.0	0,0,0
271	0.02	0.02	0.01	204,200,215	0.0	0.0	0.0	0,0,0
272	0.02	0.05	0.01	203,200,215	0.0	0.0	0.0	0,0,0
273	0.04	0.10	0.02	203,199,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 259 di
378

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
274	0.03	0.06	0.02	203,203,215	0.0	0.0	0.0	0,0,0
275	0.02	0.03	0.02	204,199,215	0.0	0.0	0.0	0,0,0
276	0.02	0.01	0.02	200,200,215	0.0	0.0	0.0	0,0,0
277	0.01	0.01	0.01	200,200,215	0.0	0.0	0.0	0,0,0
278	0.02	0.01	0.01	190,190,215	0.0	0.0	0.0	0,0,0
279	0.02	0.02	0.01	204,200,215	0.0	0.0	0.0	0,0,0
280	0.02	0.05	0.01	203,200,215	0.0	0.0	0.0	0,0,0
281	0.05	0.11	0.03	200,203,215	0.0	0.0	0.0	0,0,0
282	0.04	0.07	0.04	204,203,215	0.0	0.0	0.0	0,0,0
283	0.03	0.05	0.03	204,199,215	0.0	0.0	0.0	0,0,0
284	0.02	0.02	0.02	204,199,215	0.0	0.0	0.0	0,0,0
285	0.02	0.01	0.02	200,200,215	0.0	0.0	0.0	0,0,0
286	0.02	0.01	0.01	190,190,215	0.0	0.0	0.0	0,0,0
287	0.02	0.01	0.01	204,200,215	0.0	0.0	0.0	0,0,0
288	0.02	0.04	0.01	203,200,215	0.0	0.0	0.0	0,0,0
289	0.12	0.33	0.15	186,204,215	0.0	0.0	0.0	0,0,0
290	0.04	0.11	0.04	203,199,215	0.0	0.0	0.0	0,0,0
291	0.03	0.06	0.03	204,199,215	0.0	0.0	0.0	0,0,0
292	0.02	0.03	0.02	204,199,215	0.0	0.0	0.0	0,0,0
293	0.02	0.01	0.02	200,200,215	0.0	0.0	0.0	0,0,0
294	0.02	0.01	0.01	190,190,215	0.0	0.0	0.0	0,0,0
295	0.02	0.01	0.01	204,204,215	0.0	0.0	0.0	0,0,0
296	0.02	0.03	0.01	203,200,215	0.0	0.0	0.0	0,0,0
297	0.08	0.31	0.09	203,204,215	0.0	0.0	0.0	0,0,0
298	0.04	0.09	0.04	203,199,215	0.0	0.0	0.0	0,0,0
...								
1008	0.03	0.08	0.03	178,177,215	0.0	0.0	0.0	0,0,0
Setto	rRfck	rRfyk	rPfck		wR	wF	wP	
	0.16	0.75	0.19		0.45	0.0	0.0	

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
353	0.04	0.09	0.04	192,191,215	0.0	0.0	0.0	0,0,0
354	0.05	0.11	0.05	149,150,215	0.0	0.0	0.0	0,0,0
355	0.06	0.12	0.06	149,150,215	0.0	0.0	0.0	0,0,0
356	0.06	0.12	0.06	149,150,215	0.0	0.0	0.0	0,0,0
357	0.06	0.12	0.06	149,149,215	0.0	0.0	0.0	0,0,0
358	0.05	0.14	0.05	149,200,215	0.0	0.0	0.0	0,0,0
359	0.04	0.21	0.04	164,200,215	0.0	0.0	0.0	0,0,0
360	0.06	0.32	0.06	186,172,215	0.0	0.0	0.0	0,0,0
361	0.04	0.10	0.05	192,192,215	0.0	0.0	0.0	0,0,0
362	0.05	0.13	0.05	192,192,215	0.0	0.0	0.0	0,0,0
363	0.05	0.13	0.05	192,192,215	0.0	0.0	0.0	0,0,0
364	0.05	0.13	0.05	191,192,215	0.0	0.0	0.0	0,0,0
365	0.05	0.13	0.05	164,200,215	0.0	0.0	0.0	0,0,0
366	0.05	0.13	0.05	164,200,215	0.0	0.0	0.0	0,0,0
367	0.04	0.19	0.04	178,200,215	0.0	0.0	0.0	0,0,0
368	0.10	0.29	0.11	178,172,215	0.0	0.0	0.0	0,0,0
369	0.05	0.10	0.05	177,177,215	0.0	0.0	0.0	0,0,0
370	0.05	0.15	0.06	192,192,215	0.0	0.0	0.0	0,0,0
371	0.06	0.17	0.07	192,192,215	0.0	0.0	0.0	0,0,0
372	0.06	0.17	0.07	192,192,215	0.0	0.0	0.0	0,0,0
373	0.06	0.16	0.07	164,192,215	0.0	0.0	0.0	0,0,0
374	0.05	0.12	0.06	163,192,215	0.0	0.0	0.0	0,0,0
375	0.05	0.19	0.05	178,200,215	0.0	0.0	0.0	0,0,0
376	0.13	0.33	0.14	178,172,215	0.0	0.0	0.0	0,0,0
377	0.05	0.11	0.05	177,177,215	0.0	0.0	0.0	0,0,0
378	0.06	0.16	0.07	192,192,215	0.0	0.0	0.0	0,0,0
379	0.07	0.19	0.08	192,192,215	0.0	0.0	0.0	0,0,0
380	0.07	0.19	0.08	192,192,215	0.0	0.0	0.0	0,0,0
381	0.07	0.18	0.08	192,192,215	0.0	0.0	0.0	0,0,0
382	0.06	0.13	0.06	191,192,215	0.0	0.0	0.0	0,0,0
383	0.06	0.19	0.06	178,200,215	0.0	0.0	0.0	0,0,0
384	0.15	0.36	0.17	178,178,215	0.0	0.0	0.0	0,0,0
385	0.05	0.11	0.05	177,177,215	0.0	0.0	0.0	0,0,0
386	0.06	0.17	0.07	192,192,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 260 di
378

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
387	0.08	0.20	0.09	192,192,215	0.0	0.0	0.0	0,0,0
388	0.08	0.20	0.09	192,192,215	0.0	0.0	0.0	0,0,0
389	0.08	0.19	0.09	191,192,215	0.0	0.0	0.0	0,0,0
390	0.06	0.14	0.06	191,192,215	0.0	0.0	0.0	0,0,0
391	0.07	0.18	0.07	178,172,215	0.0	0.0	0.0	0,0,0
392	0.16	0.39	0.18	178,178,215	0.0	0.0	0.0	0,0,0
393	0.05	0.11	0.05	177,177,215	0.0	0.0	0.0	0,0,0
394	0.07	0.17	0.08	150,192,215	0.0	0.0	0.0	0,0,0
395	0.09	0.21	0.10	192,192,215	0.0	0.0	0.0	0,0,0
396	0.09	0.21	0.10	192,192,215	0.0	0.0	0.0	0,0,0
397	0.08	0.20	0.09	191,192,215	0.0	0.0	0.0	0,0,0
398	0.06	0.14	0.07	191,192,215	0.0	0.0	0.0	0,0,0
399	0.07	0.18	0.07	178,172,215	0.0	0.0	0.0	0,0,0
400	0.17	0.40	0.19	178,178,215	0.0	0.0	0.0	0,0,0
401	0.05	0.11	0.05	177,177,215	0.0	0.0	0.0	0,0,0
402	0.07	0.18	0.08	150,192,215	0.0	0.0	0.0	0,0,0
403	0.09	0.22	0.10	192,192,215	0.0	0.0	0.0	0,0,0
404	0.09	0.22	0.10	192,192,215	0.0	0.0	0.0	0,0,0
405	0.09	0.20	0.10	191,192,215	0.0	0.0	0.0	0,0,0
406	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
407	0.08	0.18	0.08	178,172,215	0.0	0.0	0.0	0,0,0
408	0.18	0.41	0.19	178,178,215	0.0	0.0	0.0	0,0,0
409	0.05	0.11	0.05	177,191,215	0.0	0.0	0.0	0,0,0
410	0.07	0.18	0.08	150,192,215	0.0	0.0	0.0	0,0,0
411	0.09	0.22	0.10	192,192,215	0.0	0.0	0.0	0,0,0
412	0.09	0.22	0.10	192,192,215	0.0	0.0	0.0	0,0,0
413	0.09	0.21	0.10	191,192,215	0.0	0.0	0.0	0,0,0
414	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
415	0.08	0.19	0.08	178,186,215	0.0	0.0	0.0	0,0,0
416	0.18	0.42	0.20	178,178,215	0.0	0.0	0.0	0,0,0
417	0.05	0.11	0.04	191,191,215	0.0	0.0	0.0	0,0,0
418	0.07	0.18	0.08	150,192,215	0.0	0.0	0.0	0,0,0
419	0.09	0.22	0.10	192,192,215	0.0	0.0	0.0	0,0,0
420	0.09	0.22	0.10	192,192,215	0.0	0.0	0.0	0,0,0
421	0.09	0.21	0.10	191,192,215	0.0	0.0	0.0	0,0,0
422	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
423	0.08	0.19	0.08	178,186,215	0.0	0.0	0.0	0,0,0
424	0.18	0.42	0.20	178,178,215	0.0	0.0	0.0	0,0,0
425	0.05	0.11	0.04	191,191,215	0.0	0.0	0.0	0,0,0
426	0.08	0.18	0.08	150,192,215	0.0	0.0	0.0	0,0,0
427	0.09	0.22	0.10	150,192,215	0.0	0.0	0.0	0,0,0
428	0.09	0.22	0.10	150,192,215	0.0	0.0	0.0	0,0,0
429	0.09	0.21	0.10	191,192,215	0.0	0.0	0.0	0,0,0
430	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
431	0.08	0.19	0.08	186,186,215	0.0	0.0	0.0	0,0,0
432	0.18	0.43	0.20	178,178,215	0.0	0.0	0.0	0,0,0
433	0.05	0.11	0.04	191,191,215	0.0	0.0	0.0	0,0,0
434	0.08	0.18	0.08	150,172,215	0.0	0.0	0.0	0,0,0
435	0.09	0.22	0.11	150,192,215	0.0	0.0	0.0	0,0,0
436	0.09	0.22	0.11	150,192,215	0.0	0.0	0.0	0,0,0
437	0.09	0.20	0.10	191,192,215	0.0	0.0	0.0	0,0,0
438	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
439	0.08	0.19	0.08	186,186,215	0.0	0.0	0.0	0,0,0
440	0.19	0.43	0.20	178,178,215	0.0	0.0	0.0	0,0,0
441	0.05	0.12	0.04	191,191,215	0.0	0.0	0.0	0,0,0
442	0.08	0.18	0.08	150,172,215	0.0	0.0	0.0	0,0,0
443	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
444	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
445	0.09	0.20	0.10	191,192,215	0.0	0.0	0.0	0,0,0
446	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
447	0.08	0.19	0.08	186,186,215	0.0	0.0	0.0	0,0,0
448	0.19	0.43	0.20	178,178,215	0.0	0.0	0.0	0,0,0
449	0.05	0.12	0.04	191,191,215	0.0	0.0	0.0	0,0,0
450	0.08	0.18	0.08	150,150,215	0.0	0.0	0.0	0,0,0
451	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
452	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
453	0.09	0.20	0.10	191,192,215	0.0	0.0	0.0	0,0,0
454	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
455	0.09	0.19	0.08	186,186,215	0.0	0.0	0.0	0,0,0
456	0.19	0.43	0.20	178,178,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 261 di 378

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
457	0.05	0.12	0.04	191,203,215	0.0	0.0	0.0	0,0,0
458	0.08	0.18	0.08	178,150,215	0.0	0.0	0.0	0,0,0
459	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
460	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
461	0.09	0.20	0.10	191,192,215	0.0	0.0	0.0	0,0,0
462	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
463	0.09	0.19	0.08	186,186,215	0.0	0.0	0.0	0,0,0
464	0.19	0.44	0.20	178,178,215	0.0	0.0	0.0	0,0,0
465	0.05	0.12	0.04	203,203,215	0.0	0.0	0.0	0,0,0
466	0.08	0.18	0.08	178,150,215	0.0	0.0	0.0	0,0,0
467	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
468	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
469	0.09	0.20	0.10	191,192,215	0.0	0.0	0.0	0,0,0
470	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
471	0.09	0.20	0.08	186,186,215	0.0	0.0	0.0	0,0,0
472	0.19	0.44	0.20	178,178,215	0.0	0.0	0.0	0,0,0
473	0.05	0.13	0.04	203,203,215	0.0	0.0	0.0	0,0,0
474	0.08	0.18	0.08	178,150,215	0.0	0.0	0.0	0,0,0
475	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
476	0.09	0.22	0.11	150,150,215	0.0	0.0	0.0	0,0,0
477	0.09	0.20	0.10	191,192,215	0.0	0.0	0.0	0,0,0
478	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
479	0.09	0.20	0.08	186,186,215	0.0	0.0	0.0	0,0,0
480	0.19	0.44	0.20	178,178,215	0.0	0.0	0.0	0,0,0
481	0.05	0.13	0.04	203,203,215	0.0	0.0	0.0	0,0,0
482	0.08	0.18	0.08	178,178,215	0.0	0.0	0.0	0,0,0
483	0.09	0.22	0.10	150,150,215	0.0	0.0	0.0	0,0,0
484	0.09	0.22	0.10	150,150,215	0.0	0.0	0.0	0,0,0
485	0.09	0.20	0.10	191,191,215	0.0	0.0	0.0	0,0,0
486	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
487	0.09	0.20	0.08	186,186,215	0.0	0.0	0.0	0,0,0
488	0.19	0.44	0.20	178,178,215	0.0	0.0	0.0	0,0,0
489	0.06	0.13	0.04	203,203,215	0.0	0.0	0.0	0,0,0
490	0.08	0.18	0.08	178,178,215	0.0	0.0	0.0	0,0,0
491	0.09	0.22	0.10	150,150,215	0.0	0.0	0.0	0,0,0
492	0.09	0.22	0.10	150,150,215	0.0	0.0	0.0	0,0,0
493	0.09	0.20	0.10	191,191,215	0.0	0.0	0.0	0,0,0
494	0.06	0.14	0.07	191,191,215	0.0	0.0	0.0	0,0,0
495	0.09	0.20	0.08	186,186,215	0.0	0.0	0.0	0,0,0
496	0.19	0.44	0.20	178,178,215	0.0	0.0	0.0	0,0,0
497	0.06	0.13	0.04	203,203,215	0.0	0.0	0.0	0,0,0
498	0.08	0.18	0.08	178,178,215	0.0	0.0	0.0	0,0,0
499	0.09	0.21	0.10	178,150,215	0.0	0.0	0.0	0,0,0
500	0.09	0.21	0.10	178,150,215	0.0	0.0	0.0	0,0,0
501	0.09	0.20	0.10	191,191,215	0.0	0.0	0.0	0,0,0
502	0.06	0.14	0.06	191,191,215	0.0	0.0	0.0	0,0,0
503	0.09	0.20	0.08	186,186,215	0.0	0.0	0.0	0,0,0
504	0.19	0.44	0.20	178,178,215	0.0	0.0	0.0	0,0,0
505	0.06	0.13	0.04	203,203,215	0.0	0.0	0.0	0,0,0
506	0.08	0.18	0.08	178,178,215	0.0	0.0	0.0	0,0,0
507	0.09	0.21	0.11	178,149,215	0.0	0.0	0.0	0,0,0
508	0.09	0.21	0.11	178,149,215	0.0	0.0	0.0	0,0,0
509	0.09	0.21	0.10	191,191,215	0.0	0.0	0.0	0,0,0
510	0.06	0.15	0.06	191,191,215	0.0	0.0	0.0	0,0,0
511	0.09	0.20	0.09	186,178,215	0.0	0.0	0.0	0,0,0
512	0.20	0.45	0.20	178,178,215	0.0	0.0	0.0	0,0,0
513	0.06	0.14	0.04	203,203,215	0.0	0.0	0.0	0,0,0
514	0.08	0.18	0.09	178,178,215	0.0	0.0	0.0	0,0,0
515	0.09	0.22	0.11	178,149,215	0.0	0.0	0.0	0,0,0
516	0.09	0.22	0.11	178,149,215	0.0	0.0	0.0	0,0,0
517	0.09	0.21	0.10	191,191,215	0.0	0.0	0.0	0,0,0
518	0.06	0.15	0.07	191,191,215	0.0	0.0	0.0	0,0,0
519	0.09	0.20	0.09	186,178,215	0.0	0.0	0.0	0,0,0
520	0.20	0.45	0.21	178,178,215	0.0	0.0	0.0	0,0,0
521	0.06	0.16	0.04	203,203,215	0.0	0.0	0.0	0,0,0
522	0.08	0.19	0.09	178,177,215	0.0	0.0	0.0	0,0,0
523	0.10	0.23	0.11	178,149,215	0.0	0.0	0.0	0,0,0
524	0.10	0.23	0.11	178,149,215	0.0	0.0	0.0	0,0,0
525	0.09	0.22	0.10	191,149,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 262 di
378

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
526	0.07	0.16	0.07	191,191,215	0.0	0.0	0.0	0,0,0
527	0.09	0.20	0.09	186,178,215	0.0	0.0	0.0	0,0,0
528	0.20	0.46	0.21	178,178,215	0.0	0.0	0.0	0,0,0
769	0.06	0.32	0.06	200,200,215	0.0	0.0	0.0	0,0,0
770	0.04	0.20	0.04	164,186,215	0.0	0.0	0.0	0,0,0
771	0.05	0.13	0.05	149,186,215	0.0	0.0	0.0	0,0,0
772	0.06	0.12	0.06	149,149,215	0.0	0.0	0.0	0,0,0
773	0.06	0.12	0.06	149,149,215	0.0	0.0	0.0	0,0,0
774	0.06	0.12	0.06	149,149,215	0.0	0.0	0.0	0,0,0
775	0.05	0.10	0.05	149,150,215	0.0	0.0	0.0	0,0,0
776	0.04	0.09	0.04	178,177,215	0.0	0.0	0.0	0,0,0
777	0.10	0.29	0.11	192,172,215	0.0	0.0	0.0	0,0,0
778	0.04	0.19	0.04	192,186,215	0.0	0.0	0.0	0,0,0
779	0.05	0.12	0.05	164,186,215	0.0	0.0	0.0	0,0,0
780	0.05	0.12	0.05	164,172,215	0.0	0.0	0.0	0,0,0
781	0.05	0.13	0.05	164,178,215	0.0	0.0	0.0	0,0,0
782	0.05	0.13	0.05	178,178,215	0.0	0.0	0.0	0,0,0
783	0.05	0.12	0.05	178,178,215	0.0	0.0	0.0	0,0,0
784	0.04	0.10	0.04	191,178,215	0.0	0.0	0.0	0,0,0
785	0.13	0.33	0.14	192,172,215	0.0	0.0	0.0	0,0,0
786	0.05	0.18	0.05	192,186,215	0.0	0.0	0.0	0,0,0
787	0.05	0.12	0.06	163,178,215	0.0	0.0	0.0	0,0,0
788	0.06	0.16	0.07	164,178,215	0.0	0.0	0.0	0,0,0
789	0.06	0.16	0.07	178,178,215	0.0	0.0	0.0	0,0,0
790	0.06	0.16	0.07	178,178,215	0.0	0.0	0.0	0,0,0
791	0.05	0.14	0.06	178,178,215	0.0	0.0	0.0	0,0,0
792	0.05	0.11	0.05	191,191,215	0.0	0.0	0.0	0,0,0
793	0.15	0.37	0.17	192,192,215	0.0	0.0	0.0	0,0,0
794	0.06	0.19	0.06	192,172,215	0.0	0.0	0.0	0,0,0
795	0.05	0.13	0.06	177,178,215	0.0	0.0	0.0	0,0,0
796	0.07	0.18	0.08	178,178,215	0.0	0.0	0.0	0,0,0
797	0.07	0.19	0.08	178,178,215	0.0	0.0	0.0	0,0,0
798	0.07	0.19	0.08	178,178,215	0.0	0.0	0.0	0,0,0
799	0.06	0.15	0.06	178,178,215	0.0	0.0	0.0	0,0,0
800	0.05	0.12	0.05	191,191,215	0.0	0.0	0.0	0,0,0
801	0.17	0.39	0.18	192,192,215	0.0	0.0	0.0	0,0,0
802	0.07	0.19	0.07	192,172,215	0.0	0.0	0.0	0,0,0
803	0.06	0.13	0.06	177,178,215	0.0	0.0	0.0	0,0,0
804	0.08	0.19	0.09	178,178,215	0.0	0.0	0.0	0,0,0
805	0.08	0.20	0.09	178,178,215	0.0	0.0	0.0	0,0,0
806	0.08	0.20	0.09	178,178,215	0.0	0.0	0.0	0,0,0
807	0.06	0.16	0.07	178,178,215	0.0	0.0	0.0	0,0,0
808	0.05	0.12	0.05	191,191,215	0.0	0.0	0.0	0,0,0
809	0.17	0.41	0.19	192,192,215	0.0	0.0	0.0	0,0,0
810	0.07	0.19	0.08	192,172,215	0.0	0.0	0.0	0,0,0
811	0.06	0.14	0.06	177,178,215	0.0	0.0	0.0	0,0,0
812	0.08	0.20	0.09	177,178,215	0.0	0.0	0.0	0,0,0
813	0.08	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
814	0.08	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
815	0.07	0.17	0.07	150,178,215	0.0	0.0	0.0	0,0,0
816	0.05	0.12	0.05	191,191,215	0.0	0.0	0.0	0,0,0
817	0.18	0.41	0.20	192,192,215	0.0	0.0	0.0	0,0,0
818	0.08	0.19	0.08	192,200,215	0.0	0.0	0.0	0,0,0
819	0.06	0.14	0.06	177,178,215	0.0	0.0	0.0	0,0,0
820	0.08	0.20	0.09	177,178,215	0.0	0.0	0.0	0,0,0
821	0.09	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
822	0.09	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
823	0.07	0.17	0.08	150,178,215	0.0	0.0	0.0	0,0,0
824	0.05	0.12	0.05	191,177,215	0.0	0.0	0.0	0,0,0
825	0.18	0.42	0.20	192,192,215	0.0	0.0	0.0	0,0,0
826	0.08	0.19	0.08	192,200,215	0.0	0.0	0.0	0,0,0
827	0.06	0.14	0.06	177,178,215	0.0	0.0	0.0	0,0,0
828	0.08	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
829	0.09	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
830	0.09	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
831	0.07	0.17	0.08	150,178,215	0.0	0.0	0.0	0,0,0
832	0.05	0.12	0.05	191,177,215	0.0	0.0	0.0	0,0,0
833	0.19	0.43	0.20	192,192,215	0.0	0.0	0.0	0,0,0
834	0.08	0.19	0.08	192,200,215	0.0	0.0	0.0	0,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 263 di
378

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
835	0.06	0.14	0.06	177,177,215	0.0	0.0	0.0	0,0,0
836	0.08	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
837	0.09	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
838	0.09	0.21	0.10	178,178,215	0.0	0.0	0.0	0,0,0
839	0.07	0.17	0.08	150,186,215	0.0	0.0	0.0	0,0,0
840	0.05	0.12	0.05	177,177,215	0.0	0.0	0.0	0,0,0
841	0.19	0.43	0.20	192,192,215	0.0	0.0	0.0	0,0,0
842	0.08	0.19	0.09	192,200,215	0.0	0.0	0.0	0,0,0
843	0.06	0.14	0.06	177,177,215	0.0	0.0	0.0	0,0,0
844	0.09	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
845	0.09	0.21	0.10	150,178,215	0.0	0.0	0.0	0,0,0
846	0.09	0.21	0.10	150,178,215	0.0	0.0	0.0	0,0,0
847	0.07	0.17	0.08	150,172,215	0.0	0.0	0.0	0,0,0
848	0.05	0.12	0.05	177,177,215	0.0	0.0	0.0	0,0,0
849	0.19	0.43	0.20	192,192,215	0.0	0.0	0.0	0,0,0
850	0.08	0.19	0.09	200,200,215	0.0	0.0	0.0	0,0,0
851	0.06	0.14	0.06	177,177,215	0.0	0.0	0.0	0,0,0
852	0.09	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
853	0.09	0.21	0.10	150,178,215	0.0	0.0	0.0	0,0,0
854	0.09	0.21	0.10	150,178,215	0.0	0.0	0.0	0,0,0
855	0.07	0.17	0.08	150,172,215	0.0	0.0	0.0	0,0,0
856	0.05	0.12	0.05	177,177,215	0.0	0.0	0.0	0,0,0
857	0.19	0.44	0.20	192,192,215	0.0	0.0	0.0	0,0,0
858	0.09	0.20	0.09	200,200,215	0.0	0.0	0.0	0,0,0
859	0.06	0.13	0.06	177,177,215	0.0	0.0	0.0	0,0,0
860	0.09	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
861	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
862	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
863	0.07	0.17	0.08	150,172,215	0.0	0.0	0.0	0,0,0
864	0.05	0.12	0.05	177,177,215	0.0	0.0	0.0	0,0,0
865	0.19	0.44	0.20	192,192,215	0.0	0.0	0.0	0,0,0
866	0.09	0.20	0.09	200,200,215	0.0	0.0	0.0	0,0,0
867	0.06	0.13	0.06	177,177,215	0.0	0.0	0.0	0,0,0
868	0.08	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
869	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
870	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
871	0.07	0.17	0.08	150,172,215	0.0	0.0	0.0	0,0,0
872	0.05	0.12	0.04	177,177,215	0.0	0.0	0.0	0,0,0
873	0.19	0.44	0.20	192,192,215	0.0	0.0	0.0	0,0,0
874	0.09	0.20	0.09	200,200,215	0.0	0.0	0.0	0,0,0
875	0.06	0.13	0.06	177,177,215	0.0	0.0	0.0	0,0,0
876	0.08	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
877	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
878	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
879	0.07	0.17	0.08	192,172,215	0.0	0.0	0.0	0,0,0
880	0.05	0.13	0.04	177,189,215	0.0	0.0	0.0	0,0,0
881	0.19	0.44	0.20	192,192,215	0.0	0.0	0.0	0,0,0
882	0.09	0.20	0.09	200,200,215	0.0	0.0	0.0	0,0,0
883	0.06	0.13	0.06	177,177,215	0.0	0.0	0.0	0,0,0
884	0.08	0.20	0.10	177,178,215	0.0	0.0	0.0	0,0,0
885	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
886	0.09	0.21	0.10	150,150,215	0.0	0.0	0.0	0,0,0
887	0.07	0.17	0.08	192,172,215	0.0	0.0	0.0	0,0,0
888	0.05	0.13	0.04	189,189,215	0.0	0.0	0.0	0,0,0
889	0.19	0.45	0.20	192,192,215	0.0	0.0	0.0	0,0,0
890	0.09	0.20	0.09	200,200,215	0.0	0.0	0.0	0,0,0
...								
1445	0.15	0.67	0.09	200,200,215	0.23	0.11	0.0	186,210,0
Guscio	rRfck	rRfyk	rPfck		wR	wF	wP	
	0.80	0.75	0.30		0.32	0.20	0.14	

18 STATO LIMITE D' ESERCIZIO: SLD DANNO SISMICO

18.1 LEGENDA TABELLA STATI LIMITE DI DANNO (VERIFICHE RES)

Le verifiche RES per SLD sono effettuate in accordo alle Norme Tecniche 17 Gennaio 2018 e alla circolare n.7 del 21 gennaio 2019 nonché alle linee guida del Consiglio Superiore LL.PP. “Linee guida per la Progettazione, l'Esecuzione ed il Collaudo di Interventi di Rinforzo di strutture di c.a., c.a.p. e murarie mediante FRP”.

Le verifiche RES per SLD, sono riportate nelle successive tabelle nella forma di rapporto “domanda” su “capacità” e hanno esito positivo quando il rapporto è non superiore al valore unitario.

La “domanda” è ottenuta direttamente dall’analisi per le previste combinazioni SLD (NTC18 2.5.3. COMBINAZIONI DELLE AZIONI formula [2.5.5]).

Per “capacità” si intende qui il valore della sollecitazione corrispondente al raggiungimento dello stato limite di danno per la sezione: per la resistenza flessionale questo stato limite si identifica con la tensione di snervamento dell'acciaio o la resistenza massima a compressione per il calcestruzzo e la muratura. Lo stato limite di danno si ritiene attinto anche in caso di superamento della resistenza a taglio.

Le resistenze flessionali sono valutate utilizzando i legami costitutivi del materiale limitati al solo tratto elastico, ottenendo così resistenze sostanzialmente elastiche come previsto dalla norma.

La seguente tabella identifica per quali configurazioni (materiale nuovo, esistente, con rinforzi e metodo di analisi) sono state condotte le verifiche di seguito riportate.

Configurazione	Verifica SLD	NOTE

1) c.a. nuovo e esist. Verifica SLU con $q>1$	Verifica N/M SE Verifica V/T	Sono verifiche per struttura non dissipativa condotte secondo il cap.4 NTC18 in regime sostanzialmente elastico; si verificano travi, pilastri, setti e gusci.
2) Muratura nuova Verifica SLU con $q>1$	Verifica N/M SE Verifica V	Per N/M identificato SL elastico, per V formulazione secondo cap.7
3) Muratura esis. AO Verifica SLU con $q>1$	Verifica N/M SE Verifica V	Per N/M identificato SL elastico, per V formulazione secondo cap. 7 e 8
4) Muratura esis. PO Verifica SLU con $q>1$	Verifica N/M SE Verifica V	Per N/M identificato SL elastico, per V formulazione secondo cap. 7 e 8; Anche per rinforzi FRP è prevista verifica N/M SE e V

18.2 Simbologia adottata nelle tabelle di verifica

Per le verifiche agli SLD di pilastri, travi setti e gusci in c.a. è presente una tabella con i simboli di seguito descritti:

Pilas./Trave/ Setto/Guscio	numero identificativo dell'elemento D2 o D3
Stato	Codici relativi all'esito delle verifiche effettuate appresso descritte
Pos.	Posizione nell'elemento della sezione per la quale si riporta la verifica
V N/M	Verifica a pressoflessione con rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
V V/T cls	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} lato cls: valore minore o uguale a 1 per verifica positiva
V V/T acc	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} lato acciaio: valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il pilastro

Per le verifiche agli SLD di maschi e fasce in muratura. è presente una tabella con i simboli di seguito descritti:

Setto/Fascia/Elem.	numero del macroelemento (D3) o elemento (D2) considerato

Mat.	Materiale	
s,m=	Indice della sezione e del materiale assegnati all' elemento (per D2)	
Spessore	spessore dell'elemento	
Stato	ok	elemento verificato (SLD)
	NV	elemento non verificato (SLD)

e a seguire:

Nodo/Pos.	numero del nodo appartenente al setto / posizione relativa al nodo I per D2
h0/t	valore della snellezza convenzionale
P/Ap	tensione verticale media utilizzata per la verifica a pressoflessione nel piano del muro
P/Acv	tensione verticale media nella parte compressa, utilizzata nella verifica a taglio nel piano del muro
Ver. Mp	rapporto tra il momento di progetto e il momento Mrd in relazione alla verifica Par. 7.8.2.2.1 (pressoflessione complanare) effettuato per tutte le combinazioni
Ver. V	rapporto il taglio di progetto e il taglio ultimo in relazione alla verifica Par. 7.8.2.2.2 (taglio complanare) o C8.7.1.16 della circolare 21-01-19 per edifici esistenti effettuato per tutte le combinazioni (solo per elementi maschi)
Ver. V	rapporto tra il taglio di progetto e il minore dei tagli resistenti Vp e Vt in relazione alla verifica del par. 7.8.2.2.3 (solo per elementi fasce)
Rif. cmb	Combinazioni in cui si hanno i massimi valori dei rapporti Ver. Mp, Ver. V

Per elementi consolidati secondo il paragrafo C8.5.3.1 il programma opera come per gli elementi non rinforzati, considerando ai fini delle analisi e delle verifiche gli opportuni coefficienti correttivi delle rigidità e delle resistenze.

Per elementi consolidati con FRP il programma implementa le verifiche previste dalle "Linee guida per la Progettazione, l'Esecuzione ed il Collaudo di Interventi di Rinforzo di strutture di c.a., c.a.p. e murarie mediante FRP" approvate dal CSLLPP il 24/07/2009.

Per elementi consolidati con FRCM il programma implementa le verifiche previste dalle CNR-DT 215/2018 "Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati a Matrice Inorganica"

Per semplicità la simbologia adottata nelle tabelle è uniformata a quella degli elementi non rinforzati.

Le tabelle riportano inoltre i seguenti parametri:

Fibra	Tipo di fibra del fibrorinforzo
E fibra	Modulo elastico del fibrorinforzo
epsr	Dilatazione di rottura del fibrorinforzo
epsd	Dilatazione di calcolo
epsd(s)	Dilatazione di calcolo per combinazioni sismiche
Spess.	Spessore del fibrorinforzo, il programma prevede l' applicazione di uno strato di spessore s su entrambe le facce della parete (o sui quattro lati della sezione in caso di confinamento)
AO fib.	Area orizzontale complessiva di fibrorinforzo per metro lineare
AV fib.	Area verticale complessiva di fibrorinforzo per metro lineare

Affinché l'elemento sia verificato deve essere:

Ver. Mp, Ver.V non superiore a 1

TABELLA VERIFICHE ELEMENTI D3 SETTI C.A.

Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
1	ok	13	0.20	0.0	0.0	279,0,0	14	0.11	0.0	0.0	279,0,0
		15	0.10	0.0	0.0	259,0,0	1	0.38	0.0	0.0	258,0,0
2	ok	16	0.16	0.0	0.0	279,0,0	17	0.11	0.0	0.0	279,0,0
		14	0.10	0.0	0.0	279,0,0	13	0.20	0.0	0.0	279,0,0
3	ok	18	0.13	0.0	0.0	279,0,0	19	0.10	0.0	0.0	274,0,0
		17	0.11	0.0	0.0	279,0,0	16	0.16	0.0	0.0	279,0,0
4	ok	20	0.12	0.0	0.0	279,0,0	21	0.11	0.0	0.0	274,0,0
		19	0.11	0.0	0.0	274,0,0	18	0.13	0.0	0.0	274,0,0
5	ok	22	0.12	0.0	0.0	279,0,0	23	0.11	0.0	0.0	274,0,0
		21	0.11	0.0	0.0	274,0,0	20	0.12	0.0	0.0	279,0,0
6	ok	24	0.12	0.0	0.0	279,0,0	25	0.10	0.0	0.0	274,0,0
		23	0.10	0.0	0.0	274,0,0	22	0.12	0.0	0.0	279,0,0
7	ok	26	0.10	0.0	0.0	279,0,0	27	0.07	0.0	0.0	274,0,0
		25	0.08	0.0	0.0	274,0,0	24	0.12	0.0	0.0	279,0,0
8	ok	7	0.03	0.0	0.0	253,0,0	28	0.05	0.0	0.0	279,0,0
		27	0.07	0.0	0.0	275,0,0	26	0.10	0.0	0.0	279,0,0
9	ok	14	0.13	0.0	0.0	251,0,0	29	0.15	0.0	0.0	251,0,0
		30	0.14	0.0	0.0	274,0,0	15	0.12	0.0	0.0	274,0,0
10	ok	17	0.08	0.0	0.0	279,0,0	31	0.10	0.0	0.0	251,0,0
		29	0.14	0.0	0.0	251,0,0	14	0.10	0.0	0.0	267,0,0
11	ok	19	0.11	0.0	0.0	274,0,0	32	0.09	0.0	0.0	274,0,0
		31	0.10	0.0	0.0	267,0,0	17	0.09	0.0	0.0	279,0,0
12	ok	21	0.11	0.0	0.0	274,0,0	33	0.10	0.0	0.0	274,0,0
		32	0.09	0.0	0.0	274,0,0	19	0.10	0.0	0.0	274,0,0
13	ok	23	0.11	0.0	0.0	274,0,0	34	0.10	0.0	0.0	274,0,0
		33	0.10	0.0	0.0	274,0,0	21	0.11	0.0	0.0	274,0,0
14	ok	25	0.09	0.0	0.0	274,0,0	35	0.08	0.0	0.0	274,0,0
		34	0.09	0.0	0.0	274,0,0	23	0.10	0.0	0.0	274,0,0
15	ok	27	0.05	0.0	0.0	278,0,0	36	0.05	0.0	0.0	274,0,0
		35	0.07	0.0	0.0	274,0,0	25	0.07	0.0	0.0	274,0,0
16	ok	28	0.08	0.0	0.0	279,0,0	37	0.09	0.0	0.0	279,0,0
		36	0.07	0.0	0.0	279,0,0	27	0.06	0.0	0.0	267,0,0
17	ok	29	0.16	0.0	0.0	251,0,0	38	0.17	0.0	0.0	274,0,0
		39	0.20	0.0	0.0	274,0,0	30	0.13	0.0	0.0	274,0,0
18	ok	31	0.11	0.0	0.0	251,0,0	40	0.13	0.0	0.0	251,0,0
		38	0.15	0.0	0.0	274,0,0	29	0.13	0.0	0.0	251,0,0
19	ok	32	0.08	0.0	0.0	274,0,0	41	0.09	0.0	0.0	275,0,0
		40	0.12	0.0	0.0	255,0,0	31	0.10	0.0	0.0	251,0,0
20	ok	33	0.09	0.0	0.0	274,0,0	42	0.08	0.0	0.0	274,0,0
		41	0.10	0.0	0.0	267,0,0	32	0.08	0.0	0.0	274,0,0
21	ok	34	0.08	0.0	0.0	274,0,0	43	0.08	0.0	0.0	274,0,0
		42	0.09	0.0	0.0	274,0,0	33	0.09	0.0	0.0	274,0,0
22	ok	35	0.07	0.0	0.0	274,0,0	44	0.07	0.0	0.0	274,0,0
		43	0.08	0.0	0.0	274,0,0	34	0.08	0.0	0.0	274,0,0
23	ok	36	0.06	0.0	0.0	279,0,0	45	0.07	0.0	0.0	273,0,0
		44	0.07	0.0	0.0	275,0,0	35	0.07	0.0	0.0	266,0,0
24	ok	37	0.10	0.0	0.0	279,0,0	46	0.12	0.0	0.0	267,0,0
		45	0.09	0.0	0.0	267,0,0	36	0.07	0.0	0.0	279,0,0
25	ok	38	0.15	0.0	0.0	254,0,0	47	0.20	0.0	0.0	274,0,0
		48	0.21	0.0	0.0	268,0,0	39	0.17	0.0	0.0	274,0,0
26	ok	40	0.12	0.0	0.0	251,0,0	49	0.12	0.0	0.0	264,0,0
		47	0.15	0.0	0.0	264,0,0	38	0.14	0.0	0.0	254,0,0
27	ok	41	0.09	0.0	0.0	267,0,0	50	0.10	0.0	0.0	267,0,0
		49	0.11	0.0	0.0	251,0,0	40	0.12	0.0	0.0	251,0,0
28	ok	42	0.07	0.0	0.0	275,0,0	51	0.09	0.0	0.0	275,0,0
		50	0.10	0.0	0.0	275,0,0	41	0.09	0.0	0.0	275,0,0
29	ok	43	0.07	0.0	0.0	275,0,0	52	0.09	0.0	0.0	275,0,0
		51	0.10	0.0	0.0	275,0,0	42	0.09	0.0	0.0	275,0,0
30	ok	44	0.08	0.0	0.0	267,0,0	53	0.10	0.0	0.0	267,0,0
		52	0.11	0.0	0.0	267,0,0	43	0.09	0.0	0.0	267,0,0

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 268 di
378

Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
31	ok	45	0.08	0.0	0.0	279,0,0	54	0.11	0.0	0.0	267,0,0
		53	0.12	0.0	0.0	267,0,0	44	0.09	0.0	0.0	267,0,0
32	ok	46	0.11	0.0	0.0	267,0,0	55	0.15	0.0	0.0	269,0,0
		54	0.13	0.0	0.0	269,0,0	45	0.09	0.0	0.0	267,0,0
33	ok	47	0.18	0.0	0.0	274,0,0	56	0.21	0.0	0.0	268,0,0
		57	0.22	0.0	0.0	268,0,0	48	0.20	0.0	0.0	274,0,0
34	ok	49	0.12	0.0	0.0	274,0,0	58	0.14	0.0	0.0	264,0,0
		56	0.17	0.0	0.0	264,0,0	47	0.16	0.0	0.0	274,0,0
35	ok	50	0.09	0.0	0.0	267,0,0	59	0.10	0.0	0.0	264,0,0
		58	0.11	0.0	0.0	264,0,0	49	0.10	0.0	0.0	251,0,0
36	ok	51	0.10	0.0	0.0	267,0,0	60	0.10	0.0	0.0	267,0,0
		59	0.10	0.0	0.0	267,0,0	50	0.10	0.0	0.0	267,0,0
37	ok	52	0.10	0.0	0.0	267,0,0	61	0.11	0.0	0.0	267,0,0
		60	0.12	0.0	0.0	267,0,0	51	0.11	0.0	0.0	267,0,0
38	ok	53	0.10	0.0	0.0	267,0,0	62	0.12	0.0	0.0	267,0,0
		61	0.13	0.0	0.0	267,0,0	52	0.12	0.0	0.0	267,0,0
39	ok	54	0.11	0.0	0.0	267,0,0	63	0.14	0.0	0.0	267,0,0
		62	0.15	0.0	0.0	267,0,0	53	0.12	0.0	0.0	267,0,0
40	ok	55	0.14	0.0	0.0	269,0,0	64	0.18	0.0	0.0	267,0,0
		63	0.16	0.0	0.0	267,0,0	54	0.13	0.0	0.0	267,0,0
41	ok	56	0.22	0.0	0.0	274,0,0	65	0.22	0.0	0.0	264,0,0
		66	0.23	0.0	0.0	274,0,0	57	0.24	0.0	0.0	274,0,0
42	ok	58	0.14	0.0	0.0	264,0,0	67	0.16	0.0	0.0	264,0,0
		65	0.18	0.0	0.0	264,0,0	56	0.17	0.0	0.0	264,0,0
43	ok	59	0.10	0.0	0.0	264,0,0	68	0.11	0.0	0.0	264,0,0
		67	0.13	0.0	0.0	264,0,0	58	0.11	0.0	0.0	264,0,0
44	ok	60	0.10	0.0	0.0	267,0,0	69	0.10	0.0	0.0	267,0,0
		68	0.09	0.0	0.0	267,0,0	59	0.09	0.0	0.0	267,0,0
45	ok	61	0.11	0.0	0.0	267,0,0	70	0.12	0.0	0.0	267,0,0
		69	0.12	0.0	0.0	267,0,0	60	0.11	0.0	0.0	267,0,0
46	ok	62	0.13	0.0	0.0	267,0,0	71	0.15	0.0	0.0	267,0,0
		70	0.15	0.0	0.0	267,0,0	61	0.13	0.0	0.0	267,0,0
47	ok	63	0.14	0.0	0.0	267,0,0	72	0.17	0.0	0.0	267,0,0
		71	0.17	0.0	0.0	267,0,0	62	0.15	0.0	0.0	267,0,0
48	ok	64	0.17	0.0	0.0	267,0,0	73	0.21	0.0	0.0	267,0,0
		72	0.19	0.0	0.0	267,0,0	63	0.16	0.0	0.0	267,0,0
49	ok	65	0.25	0.0	0.0	270,0,0	74	0.22	0.0	0.0	264,0,0
		75	0.24	0.0	0.0	270,0,0	66	0.26	0.0	0.0	270,0,0
50	ok	67	0.17	0.0	0.0	264,0,0	76	0.17	0.0	0.0	264,0,0
		74	0.18	0.0	0.0	264,0,0	65	0.19	0.0	0.0	264,0,0
51	ok	68	0.12	0.0	0.0	264,0,0	77	0.13	0.0	0.0	264,0,0
		76	0.13	0.0	0.0	264,0,0	67	0.14	0.0	0.0	264,0,0
52	ok	69	0.10	0.0	0.0	267,0,0	78	0.10	0.0	0.0	267,0,0
		77	0.10	0.0	0.0	267,0,0	68	0.09	0.0	0.0	264,0,0
53	ok	70	0.12	0.0	0.0	267,0,0	79	0.13	0.0	0.0	267,0,0
		78	0.13	0.0	0.0	267,0,0	69	0.12	0.0	0.0	267,0,0
54	ok	71	0.15	0.0	0.0	267,0,0	80	0.17	0.0	0.0	267,0,0
		79	0.17	0.0	0.0	267,0,0	70	0.15	0.0	0.0	267,0,0
55	ok	72	0.17	0.0	0.0	267,0,0	81	0.20	0.0	0.0	267,0,0
		80	0.20	0.0	0.0	267,0,0	71	0.17	0.0	0.0	267,0,0
56	ok	73	0.20	0.0	0.0	267,0,0	82	0.23	0.0	0.0	267,0,0
		81	0.22	0.0	0.0	267,0,0	72	0.19	0.0	0.0	267,0,0
57	ok	74	0.25	0.0	0.0	264,0,0	83	0.22	0.0	0.0	264,0,0
		84	0.23	0.0	0.0	264,0,0	75	0.26	0.0	0.0	264,0,0
58	ok	76	0.19	0.0	0.0	264,0,0	85	0.18	0.0	0.0	264,0,0
		83	0.16	0.0	0.0	264,0,0	74	0.20	0.0	0.0	264,0,0
59	ok	77	0.14	0.0	0.0	264,0,0	86	0.13	0.0	0.0	264,0,0
		85	0.12	0.0	0.0	264,0,0	76	0.15	0.0	0.0	264,0,0
60	ok	78	0.11	0.0	0.0	267,0,0	87	0.12	0.0	0.0	267,0,0
		86	0.11	0.0	0.0	267,0,0	77	0.10	0.0	0.0	264,0,0
61	ok	79	0.13	0.0	0.0	267,0,0	88	0.15	0.0	0.0	267,0,0
		87	0.15	0.0	0.0	267,0,0	78	0.13	0.0	0.0	267,0,0
62	ok	80	0.17	0.0	0.0	267,0,0	89	0.19	0.0	0.0	267,0,0
		88	0.19	0.0	0.0	267,0,0	79	0.17	0.0	0.0	267,0,0
63	ok	81	0.19	0.0	0.0	267,0,0	90	0.22	0.0	0.0	267,0,0
		89	0.22	0.0	0.0	267,0,0	80	0.20	0.0	0.0	267,0,0
64	ok	82	0.22	0.0	0.0	267,0,0	91	0.25	0.0	0.0	267,0,0
		90	0.25	0.0	0.0	267,0,0	81	0.22	0.0	0.0	267,0,0
65	ok	83	0.23	0.0	0.0	264,0,0	92	0.29	0.0	0.0	264,0,0

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BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 269 di
378

Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		93	0.30	0.0	0.0	264,0,0	84	0.23	0.0	0.0	264,0,0
66	ok	85	0.20	0.0	0.0	264,0,0	94	0.21	0.0	0.0	264,0,0
		92	0.21	0.0	0.0	264,0,0	83	0.18	0.0	0.0	264,0,0
67	ok	86	0.15	0.0	0.0	264,0,0	95	0.15	0.0	0.0	264,0,0
		94	0.13	0.0	0.0	264,0,0	85	0.14	0.0	0.0	264,0,0
68	ok	87	0.12	0.0	0.0	267,0,0	96	0.13	0.0	0.0	267,0,0
		95	0.13	0.0	0.0	267,0,0	86	0.12	0.0	0.0	267,0,0
69	ok	88	0.15	0.0	0.0	267,0,0	97	0.16	0.0	0.0	267,0,0
		96	0.17	0.0	0.0	267,0,0	87	0.15	0.0	0.0	267,0,0
70	ok	89	0.18	0.0	0.0	267,0,0	98	0.20	0.0	0.0	267,0,0
		97	0.21	0.0	0.0	267,0,0	88	0.19	0.0	0.0	267,0,0
71	ok	90	0.22	0.0	0.0	267,0,0	99	0.24	0.0	0.0	267,0,0
		98	0.25	0.0	0.0	267,0,0	89	0.22	0.0	0.0	267,0,0
72	ok	91	0.24	0.0	0.0	267,0,0	100	0.28	0.0	0.0	267,0,0
		99	0.27	0.0	0.0	267,0,0	90	0.25	0.0	0.0	267,0,0
73	ok	92	0.27	0.0	0.0	264,0,0	101	0.37	0.0	0.0	264,0,0
		102	0.37	0.0	0.0	264,0,0	93	0.28	0.0	0.0	264,0,0
74	ok	94	0.21	0.0	0.0	264,0,0	103	0.26	0.0	0.0	264,0,0
		101	0.27	0.0	0.0	264,0,0	92	0.20	0.0	0.0	264,0,0
75	ok	95	0.16	0.0	0.0	264,0,0	104	0.18	0.0	0.0	264,0,0
		103	0.18	0.0	0.0	264,0,0	94	0.15	0.0	0.0	264,0,0
76	ok	96	0.13	0.0	0.0	267,0,0	105	0.15	0.0	0.0	267,0,0
		104	0.15	0.0	0.0	267,0,0	95	0.13	0.0	0.0	267,0,0
77	ok	97	0.16	0.0	0.0	267,0,0	106	0.17	0.0	0.0	267,0,0
		105	0.18	0.0	0.0	267,0,0	96	0.16	0.0	0.0	267,0,0
78	ok	98	0.20	0.0	0.0	267,0,0	107	0.22	0.0	0.0	267,0,0
		106	0.22	0.0	0.0	267,0,0	97	0.20	0.0	0.0	267,0,0
79	ok	99	0.24	0.0	0.0	267,0,0	108	0.26	0.0	0.0	267,0,0
		107	0.26	0.0	0.0	267,0,0	98	0.24	0.0	0.0	267,0,0
80	ok	100	0.26	0.0	0.0	267,0,0	109	0.29	0.0	0.0	267,0,0
		108	0.30	0.0	0.0	267,0,0	99	0.27	0.0	0.0	267,0,0
81	ok	101	0.34	0.0	0.0	264,0,0	110	0.41	0.0	0.0	264,0,0
		111	0.40	0.0	0.0	264,0,0	102	0.35	0.0	0.0	264,0,0
82	ok	103	0.25	0.0	0.0	264,0,0	112	0.30	0.0	0.0	264,0,0
		110	0.31	0.0	0.0	264,0,0	101	0.25	0.0	0.0	264,0,0
83	ok	104	0.18	0.0	0.0	264,0,0	113	0.20	0.0	0.0	264,0,0
		112	0.21	0.0	0.0	264,0,0	103	0.17	0.0	0.0	264,0,0
84	ok	105	0.14	0.0	0.0	267,0,0	114	0.12	0.0	0.0	264,0,0
		113	0.13	0.0	0.0	264,0,0	104	0.15	0.0	0.0	267,0,0
85	ok	106	0.17	0.0	0.0	267,0,0	115	0.18	0.0	0.0	267,0,0
		114	0.17	0.0	0.0	267,0,0	105	0.17	0.0	0.0	267,0,0
86	ok	107	0.21	0.0	0.0	267,0,0	116	0.22	0.0	0.0	267,0,0
		115	0.23	0.0	0.0	267,0,0	106	0.21	0.0	0.0	267,0,0
87	ok	108	0.25	0.0	0.0	267,0,0	117	0.28	0.0	0.0	267,0,0
		116	0.28	0.0	0.0	267,0,0	107	0.26	0.0	0.0	267,0,0
88	ok	109	0.28	0.0	0.0	267,0,0	118	0.31	0.0	0.0	267,0,0
		117	0.31	0.0	0.0	267,0,0	108	0.29	0.0	0.0	267,0,0
89	ok	110	0.40	0.0	0.0	270,0,0	119	0.43	0.0	0.0	264,0,0
		120	0.42	0.0	0.0	264,0,0	111	0.39	0.0	0.0	270,0,0
90	ok	112	0.29	0.0	0.0	264,0,0	121	0.32	0.0	0.0	264,0,0
		119	0.33	0.0	0.0	264,0,0	110	0.30	0.0	0.0	264,0,0
91	ok	113	0.20	0.0	0.0	264,0,0	122	0.22	0.0	0.0	264,0,0
		121	0.23	0.0	0.0	264,0,0	112	0.21	0.0	0.0	264,0,0
92	ok	114	0.13	0.0	0.0	264,0,0	123	0.14	0.0	0.0	264,0,0
		122	0.15	0.0	0.0	264,0,0	113	0.14	0.0	0.0	264,0,0
93	ok	115	0.17	0.0	0.0	267,0,0	124	0.17	0.0	0.0	267,0,0
		123	0.17	0.0	0.0	267,0,0	114	0.17	0.0	0.0	267,0,0
94	ok	116	0.22	0.0	0.0	267,0,0	125	0.23	0.0	0.0	267,0,0
		124	0.23	0.0	0.0	267,0,0	115	0.22	0.0	0.0	267,0,0
95	ok	117	0.27	0.0	0.0	267,0,0	126	0.29	0.0	0.0	267,0,0
		125	0.29	0.0	0.0	267,0,0	116	0.27	0.0	0.0	267,0,0
96	ok	118	0.30	0.0	0.0	267,0,0	127	0.33	0.0	0.0	267,0,0
		126	0.33	0.0	0.0	267,0,0	117	0.31	0.0	0.0	267,0,0
97	ok	119	0.44	0.0	0.0	264,0,0	128	0.45	0.0	0.0	264,0,0
		129	0.44	0.0	0.0	264,0,0	120	0.42	0.0	0.0	270,0,0
98	ok	121	0.32	0.0	0.0	264,0,0	130	0.33	0.0	0.0	264,0,0
		128	0.34	0.0	0.0	264,0,0	119	0.33	0.0	0.0	264,0,0
99	ok	122	0.22	0.0	0.0	264,0,0	131	0.23	0.0	0.0	264,0,0
		130	0.24	0.0	0.0	264,0,0	121	0.23	0.0	0.0	264,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 270 di
378

Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
100	ok	123	0.14	0.0	0.0	264,0,0	132	0.14	0.0	0.0	264,0,0
		131	0.15	0.0	0.0	264,0,0	122	0.15	0.0	0.0	264,0,0
101	ok	124	0.16	0.0	0.0	267,0,0	133	0.16	0.0	0.0	267,0,0
		132	0.16	0.0	0.0	267,0,0	123	0.16	0.0	0.0	267,0,0
102	ok	125	0.22	0.0	0.0	267,0,0	134	0.24	0.0	0.0	267,0,0
		133	0.24	0.0	0.0	267,0,0	124	0.23	0.0	0.0	267,0,0
103	ok	126	0.28	0.0	0.0	267,0,0	135	0.30	0.0	0.0	267,0,0
		134	0.30	0.0	0.0	267,0,0	125	0.28	0.0	0.0	267,0,0
104	ok	127	0.32	0.0	0.0	267,0,0	136	0.35	0.0	0.0	267,0,0
		135	0.35	0.0	0.0	267,0,0	126	0.33	0.0	0.0	267,0,0
105	ok	128	0.45	0.0	0.0	264,0,0	137	0.43	0.0	0.0	264,0,0
		138	0.43	0.0	0.0	264,0,0	129	0.44	0.0	0.0	264,0,0
106	ok	130	0.33	0.0	0.0	264,0,0	139	0.33	0.0	0.0	264,0,0
		137	0.31	0.0	0.0	264,0,0	128	0.34	0.0	0.0	264,0,0
107	ok	131	0.23	0.0	0.0	264,0,0	140	0.23	0.0	0.0	264,0,0
		139	0.23	0.0	0.0	264,0,0	130	0.24	0.0	0.0	264,0,0
108	ok	132	0.15	0.0	0.0	264,0,0	141	0.14	0.0	0.0	264,0,0
		140	0.15	0.0	0.0	264,0,0	131	0.16	0.0	0.0	264,0,0
109	ok	133	0.15	0.0	0.0	267,0,0	142	0.16	0.0	0.0	267,0,0
		141	0.16	0.0	0.0	267,0,0	132	0.15	0.0	0.0	267,0,0
110	ok	134	0.23	0.0	0.0	267,0,0	143	0.24	0.0	0.0	267,0,0
		142	0.24	0.0	0.0	267,0,0	133	0.23	0.0	0.0	267,0,0
111	ok	135	0.29	0.0	0.0	267,0,0	144	0.31	0.0	0.0	267,0,0
		143	0.31	0.0	0.0	267,0,0	134	0.29	0.0	0.0	267,0,0
112	ok	136	0.34	0.0	0.0	267,0,0	145	0.37	0.0	0.0	267,0,0
		144	0.37	0.0	0.0	267,0,0	135	0.35	0.0	0.0	267,0,0
113	ok	137	0.43	0.0	0.0	264,0,0	146	0.44	0.0	0.0	264,0,0
		147	0.44	0.0	0.0	264,0,0	138	0.42	0.0	0.0	264,0,0
114	ok	139	0.33	0.0	0.0	264,0,0	148	0.33	0.0	0.0	264,0,0
		146	0.31	0.0	0.0	264,0,0	137	0.31	0.0	0.0	264,0,0
115	ok	140	0.24	0.0	0.0	264,0,0	149	0.23	0.0	0.0	264,0,0
		148	0.21	0.0	0.0	264,0,0	139	0.23	0.0	0.0	264,0,0
116	ok	141	0.15	0.0	0.0	264,0,0	150	0.14	0.0	0.0	264,0,0
		149	0.14	0.0	0.0	264,0,0	140	0.15	0.0	0.0	264,0,0
117	ok	142	0.15	0.0	0.0	267,0,0	151	0.16	0.0	0.0	267,0,0
		150	0.16	0.0	0.0	267,0,0	141	0.15	0.0	0.0	267,0,0
118	ok	143	0.23	0.0	0.0	267,0,0	152	0.24	0.0	0.0	267,0,0
		151	0.25	0.0	0.0	267,0,0	142	0.23	0.0	0.0	267,0,0
119	ok	144	0.30	0.0	0.0	267,0,0	153	0.32	0.0	0.0	267,0,0
		152	0.32	0.0	0.0	267,0,0	143	0.30	0.0	0.0	267,0,0
120	ok	145	0.36	0.0	0.0	267,0,0	154	0.39	0.0	0.0	267,0,0
		153	0.39	0.0	0.0	267,0,0	144	0.37	0.0	0.0	267,0,0
121	ok	146	0.44	0.0	0.0	264,0,0	155	0.52	0.0	0.0	270,0,0
		156	0.53	0.0	0.0	264,0,0	147	0.44	0.0	0.0	264,0,0
122	ok	148	0.33	0.0	0.0	264,0,0	157	0.37	0.0	0.0	264,0,0
		155	0.37	0.0	0.0	264,0,0	146	0.31	0.0	0.0	264,0,0
123	ok	149	0.23	0.0	0.0	264,0,0	158	0.25	0.0	0.0	264,0,0
		157	0.24	0.0	0.0	264,0,0	148	0.22	0.0	0.0	264,0,0
124	ok	150	0.15	0.0	0.0	264,0,0	159	0.15	0.0	0.0	264,0,0
		158	0.14	0.0	0.0	264,0,0	149	0.14	0.0	0.0	264,0,0
125	ok	151	0.15	0.0	0.0	267,0,0	160	0.16	0.0	0.0	267,0,0
		159	0.16	0.0	0.0	267,0,0	150	0.15	0.0	0.0	267,0,0
126	ok	152	0.23	0.0	0.0	267,0,0	161	0.25	0.0	0.0	267,0,0
		160	0.25	0.0	0.0	267,0,0	151	0.24	0.0	0.0	267,0,0
127	ok	153	0.31	0.0	0.0	267,0,0	162	0.33	0.0	0.0	267,0,0
		161	0.34	0.0	0.0	267,0,0	152	0.32	0.0	0.0	267,0,0
128	ok	154	0.38	0.0	0.0	267,0,0	163	0.41	0.0	0.0	267,0,0
		162	0.41	0.0	0.0	267,0,0	153	0.38	0.0	0.0	267,0,0
129	ok	155	0.51	0.0	0.0	264,0,0	164	0.59	0.0	0.0	264,0,0
		165	0.59	0.0	0.0	264,0,0	156	0.52	0.0	0.0	264,0,0
130	ok	157	0.36	0.0	0.0	264,0,0	166	0.42	0.0	0.0	264,0,0
		164	0.43	0.0	0.0	264,0,0	155	0.36	0.0	0.0	264,0,0
131	ok	158	0.25	0.0	0.0	264,0,0	167	0.28	0.0	0.0	264,0,0
		166	0.28	0.0	0.0	264,0,0	157	0.24	0.0	0.0	264,0,0
132	ok	159	0.15	0.0	0.0	264,0,0	168	0.16	0.0	0.0	264,0,0
		167	0.16	0.0	0.0	264,0,0	158	0.14	0.0	0.0	264,0,0
133	ok	160	0.14	0.0	0.0	267,0,0	169	0.15	0.0	0.0	267,0,0
		168	0.16	0.0	0.0	267,0,0	159	0.15	0.0	0.0	267,0,0
134	ok	161	0.24	0.0	0.0	267,0,0	170	0.25	0.0	0.0	267,0,0
		169	0.26	0.0	0.0	267,0,0	160	0.24	0.0	0.0	267,0,0

Setto	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
135	ok	162	0.33	0.0	0.0	267,0,0	171	0.34	0.0	0.0	267,0,0
		170	0.35	0.0	0.0	267,0,0	161	0.33	0.0	0.0	267,0,0
136	ok	163	0.40	0.0	0.0	267,0,0	172	0.42	0.0	0.0	271,0,0
		171	0.43	0.0	0.0	271,0,0	162	0.40	0.0	0.0	267,0,0
137	ok	164	0.58	0.0	0.0	264,0,0	173	0.63	0.0	0.0	264,0,0
		174	0.64	0.0	0.0	267,0,0	165	0.59	0.0	0.0	267,0,0
138	ok	166	0.42	0.0	0.0	264,0,0	175	0.46	0.0	0.0	264,0,0
		173	0.46	0.0	0.0	264,0,0	164	0.42	0.0	0.0	264,0,0
139	ok	167	0.27	0.0	0.0	264,0,0	176	0.30	0.0	0.0	264,0,0
		175	0.31	0.0	0.0	264,0,0	166	0.28	0.0	0.0	264,0,0
140	ok	168	0.16	0.0	0.0	264,0,0	177	0.17	0.0	0.0	264,0,0
		176	0.17	0.0	0.0	264,0,0	167	0.16	0.0	0.0	264,0,0
141	ok	169	0.14	0.0	0.0	267,0,0	178	0.14	0.0	0.0	267,0,0
		177	0.14	0.0	0.0	267,0,0	168	0.15	0.0	0.0	267,0,0
142	ok	170	0.24	0.0	0.0	267,0,0	179	0.25	0.0	0.0	267,0,0
		178	0.25	0.0	0.0	267,0,0	169	0.25	0.0	0.0	267,0,0
143	ok	171	0.34	0.0	0.0	267,0,0	180	0.35	0.0	0.0	267,0,0
		179	0.36	0.0	0.0	267,0,0	170	0.34	0.0	0.0	267,0,0
144	ok	172	0.42	0.0	0.0	267,0,0	181	0.44	0.0	0.0	267,0,0
		180	0.45	0.0	0.0	267,0,0	171	0.42	0.0	0.0	267,0,0
145	ok	173	0.63	0.0	0.0	264,0,0	182	0.66	0.0	0.0	264,0,0
		183	0.65	0.0	0.0	264,0,0	174	0.65	0.0	0.0	267,0,0
146	ok	175	0.45	0.0	0.0	264,0,0	184	0.48	0.0	0.0	264,0,0
		182	0.48	0.0	0.0	264,0,0	173	0.46	0.0	0.0	264,0,0
147	ok	176	0.29	0.0	0.0	264,0,0	185	0.30	0.0	0.0	264,0,0
		184	0.31	0.0	0.0	264,0,0	175	0.30	0.0	0.0	264,0,0
148	ok	177	0.16	0.0	0.0	264,0,0	186	0.17	0.0	0.0	264,0,0
		185	0.17	0.0	0.0	264,0,0	176	0.17	0.0	0.0	264,0,0
149	ok	178	0.13	0.0	0.0	267,0,0	187	0.13	0.0	0.0	267,0,0
		186	0.12	0.0	0.0	267,0,0	177	0.13	0.0	0.0	267,0,0
...											
1008	ok	641	0.05	0.0	0.0	274,0,0	861	0.05	0.0	0.0	279,0,0
Setto			V N/M	V V/T cls	V V/T acc			V N/M	V V/T cls	V V/T acc	
			0.77	0.0	0.0						

TABELLA VERIFICHE ELEMENTI D3 GUSCI C.A.

Guscio	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
353	ok	7	0.02	0.0	0.0	279,0,0	28	0.06	0.0	0.0	267,0,0
		421	0.10	0.0	0.0	279,0,0	420	0.06	0.0	0.0	275,0,0
354	ok	420	0.07	0.0	0.0	254,0,0	421	0.12	0.0	0.0	279,0,0
		423	0.13	0.0	0.0	271,0,0	422	0.09	0.0	0.0	254,0,0
355	ok	422	0.10	0.0	0.0	274,0,0	423	0.15	0.0	0.0	279,0,0
		425	0.13	0.0	0.0	271,0,0	424	0.10	0.0	0.0	276,0,0
356	ok	424	0.11	0.0	0.0	274,0,0	425	0.14	0.0	0.0	279,0,0
		427	0.13	0.0	0.0	274,0,0	426	0.10	0.0	0.0	273,0,0
357	ok	426	0.11	0.0	0.0	273,0,0	427	0.13	0.0	0.0	274,0,0
		429	0.15	0.0	0.0	274,0,0	428	0.11	0.0	0.0	279,0,0
358	ok	428	0.11	0.0	0.0	279,0,0	429	0.15	0.0	0.0	274,0,0
		431	0.16	0.0	0.0	274,0,0	430	0.12	0.0	0.0	279,0,0
359	ok	430	0.12	0.0	0.0	279,0,0	431	0.15	0.0	0.0	274,0,0
		433	0.16	0.0	0.0	279,0,0	432	0.13	0.0	0.0	279,0,0
360	ok	432	0.12	0.0	0.0	279,0,0	433	0.16	0.0	0.0	279,0,0
		235	0.17	0.0	0.0	279,0,0	8	0.15	0.0	0.0	279,0,0
361	ok	28	0.07	0.0	0.0	279,0,0	37	0.11	0.0	0.0	267,0,0
		434	0.11	0.0	0.0	279,0,0	421	0.10	0.0	0.0	267,0,0
362	ok	421	0.13	0.0	0.0	279,0,0	434	0.14	0.0	0.0	279,0,0
		435	0.16	0.0	0.0	275,0,0	423	0.13	0.0	0.0	271,0,0
363	ok	423	0.15	0.0	0.0	271,0,0	435	0.18	0.0	0.0	275,0,0
		436	0.18	0.0	0.0	267,0,0	425	0.14	0.0	0.0	267,0,0
364	ok	425	0.14	0.0	0.0	271,0,0	436	0.19	0.0	0.0	271,0,0

MANDATARIA

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PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 272 di
378

Guscio	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		437	0.17	0.0	0.0	279,0,0	427	0.13	0.0	0.0	271,0,0
365	ok	427	0.14	0.0	0.0	267,0,0	437	0.18	0.0	0.0	271,0,0
		438	0.17	0.0	0.0	266,0,0	429	0.14	0.0	0.0	270,0,0
366	ok	429	0.14	0.0	0.0	270,0,0	438	0.16	0.0	0.0	270,0,0
		439	0.14	0.0	0.0	270,0,0	431	0.15	0.0	0.0	266,0,0
367	ok	431	0.14	0.0	0.0	274,0,0	439	0.13	0.0	0.0	278,0,0
		440	0.14	0.0	0.0	273,0,0	433	0.15	0.0	0.0	279,0,0
368	ok	433	0.15	0.0	0.0	279,0,0	440	0.14	0.0	0.0	279,0,0
		244	0.24	0.0	0.0	266,0,0	235	0.18	0.0	0.0	279,0,0
369	ok	37	0.12	0.0	0.0	267,0,0	46	0.15	0.0	0.0	267,0,0
		441	0.11	0.0	0.0	273,0,0	434	0.11	0.0	0.0	275,0,0
370	ok	434	0.14	0.0	0.0	275,0,0	441	0.13	0.0	0.0	279,0,0
		442	0.17	0.0	0.0	279,0,0	435	0.16	0.0	0.0	271,0,0
371	ok	435	0.18	0.0	0.0	267,0,0	442	0.19	0.0	0.0	275,0,0
		443	0.20	0.0	0.0	267,0,0	436	0.18	0.0	0.0	267,0,0
372	ok	436	0.19	0.0	0.0	271,0,0	443	0.21	0.0	0.0	271,0,0
		444	0.19	0.0	0.0	271,0,0	437	0.17	0.0	0.0	271,0,0
373	ok	437	0.18	0.0	0.0	271,0,0	444	0.22	0.0	0.0	271,0,0
		445	0.18	0.0	0.0	271,0,0	438	0.16	0.0	0.0	266,0,0
374	ok	438	0.16	0.0	0.0	267,0,0	445	0.19	0.0	0.0	271,0,0
		446	0.13	0.0	0.0	267,0,0	439	0.13	0.0	0.0	270,0,0
375	ok	439	0.12	0.0	0.0	270,0,0	446	0.14	0.0	0.0	265,0,0
		447	0.12	0.0	0.0	273,0,0	440	0.13	0.0	0.0	279,0,0
376	ok	440	0.13	0.0	0.0	279,0,0	447	0.14	0.0	0.0	270,0,0
		253	0.30	0.0	0.0	266,0,0	244	0.24	0.0	0.0	266,0,0
377	ok	46	0.15	0.0	0.0	267,0,0	55	0.18	0.0	0.0	267,0,0
		448	0.13	0.0	0.0	264,0,0	441	0.11	0.0	0.0	275,0,0
378	ok	441	0.13	0.0	0.0	279,0,0	448	0.13	0.0	0.0	279,0,0
		449	0.17	0.0	0.0	270,0,0	442	0.16	0.0	0.0	271,0,0
379	ok	442	0.19	0.0	0.0	267,0,0	449	0.19	0.0	0.0	279,0,0
		450	0.20	0.0	0.0	279,0,0	443	0.19	0.0	0.0	271,0,0
380	ok	443	0.20	0.0	0.0	271,0,0	450	0.22	0.0	0.0	271,0,0
		451	0.20	0.0	0.0	271,0,0	444	0.19	0.0	0.0	271,0,0
381	ok	444	0.21	0.0	0.0	271,0,0	451	0.23	0.0	0.0	271,0,0
		452	0.19	0.0	0.0	271,0,0	445	0.17	0.0	0.0	271,0,0
382	ok	445	0.18	0.0	0.0	271,0,0	452	0.20	0.0	0.0	271,0,0
		453	0.14	0.0	0.0	271,0,0	446	0.13	0.0	0.0	271,0,0
383	ok	446	0.13	0.0	0.0	265,0,0	453	0.15	0.0	0.0	265,0,0
		454	0.15	0.0	0.0	270,0,0	447	0.12	0.0	0.0	270,0,0
384	ok	447	0.14	0.0	0.0	270,0,0	454	0.17	0.0	0.0	270,0,0
		9	0.35	0.0	0.0	270,0,0	253	0.30	0.0	0.0	270,0,0
385	ok	55	0.18	0.0	0.0	267,0,0	64	0.21	0.0	0.0	267,0,0
		455	0.15	0.0	0.0	264,0,0	448	0.12	0.0	0.0	264,0,0
386	ok	448	0.12	0.0	0.0	279,0,0	455	0.12	0.0	0.0	270,0,0
		456	0.20	0.0	0.0	270,0,0	449	0.17	0.0	0.0	270,0,0
387	ok	449	0.18	0.0	0.0	271,0,0	456	0.18	0.0	0.0	271,0,0
		457	0.21	0.0	0.0	270,0,0	450	0.19	0.0	0.0	271,0,0
388	ok	450	0.21	0.0	0.0	271,0,0	457	0.22	0.0	0.0	271,0,0
		458	0.21	0.0	0.0	271,0,0	451	0.20	0.0	0.0	271,0,0
389	ok	451	0.23	0.0	0.0	271,0,0	458	0.24	0.0	0.0	271,0,0
		459	0.20	0.0	0.0	271,0,0	452	0.19	0.0	0.0	271,0,0
390	ok	452	0.20	0.0	0.0	271,0,0	459	0.21	0.0	0.0	269,0,0
		460	0.14	0.0	0.0	267,0,0	453	0.14	0.0	0.0	271,0,0
391	ok	453	0.14	0.0	0.0	265,0,0	460	0.15	0.0	0.0	265,0,0
		461	0.17	0.0	0.0	270,0,0	454	0.15	0.0	0.0	270,0,0
392	ok	454	0.17	0.0	0.0	270,0,0	461	0.20	0.0	0.0	270,0,0
		3	0.39	0.0	0.0	270,0,0	9	0.35	0.0	0.0	270,0,0
393	ok	64	0.21	0.0	0.0	267,0,0	73	0.23	0.0	0.0	267,0,0
		462	0.18	0.0	0.0	264,0,0	455	0.15	0.0	0.0	264,0,0
394	ok	455	0.11	0.0	0.0	270,0,0	462	0.14	0.0	0.0	270,0,0
		463	0.22	0.0	0.0	270,0,0	456	0.19	0.0	0.0	270,0,0
395	ok	456	0.18	0.0	0.0	271,0,0	463	0.19	0.0	0.0	270,0,0
		464	0.23	0.0	0.0	270,0,0	457	0.21	0.0	0.0	270,0,0
396	ok	457	0.22	0.0	0.0	271,0,0	464	0.22	0.0	0.0	271,0,0
		465	0.21	0.0	0.0	271,0,0	458	0.20	0.0	0.0	271,0,0
397	ok	458	0.23	0.0	0.0	271,0,0	465	0.24	0.0	0.0	271,0,0
		466	0.20	0.0	0.0	271,0,0	459	0.19	0.0	0.0	271,0,0
398	ok	459	0.20	0.0	0.0	269,0,0	466	0.22	0.0	0.0	269,0,0
		467	0.14	0.0	0.0	267,0,0	460	0.14	0.0	0.0	267,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 273 di
378

Guscio	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
399	ok	460	0.14	0.0	0.0	265,0,0	467	0.16	0.0	0.0	269,0,0
		468	0.19	0.0	0.0	270,0,0	461	0.17	0.0	0.0	270,0,0
400	ok	461	0.20	0.0	0.0	270,0,0	468	0.23	0.0	0.0	270,0,0
		278	0.41	0.0	0.0	270,0,0	3	0.39	0.0	0.0	270,0,0
401	ok	73	0.23	0.0	0.0	267,0,0	82	0.25	0.0	0.0	267,0,0
		469	0.21	0.0	0.0	264,0,0	462	0.18	0.0	0.0	264,0,0
402	ok	462	0.14	0.0	0.0	270,0,0	469	0.16	0.0	0.0	264,0,0
		470	0.24	0.0	0.0	270,0,0	463	0.22	0.0	0.0	270,0,0
403	ok	463	0.18	0.0	0.0	270,0,0	470	0.20	0.0	0.0	270,0,0
		471	0.24	0.0	0.0	270,0,0	464	0.23	0.0	0.0	270,0,0
404	ok	464	0.21	0.0	0.0	271,0,0	471	0.21	0.0	0.0	271,0,0
		472	0.21	0.0	0.0	270,0,0	465	0.20	0.0	0.0	271,0,0
405	ok	465	0.24	0.0	0.0	271,0,0	472	0.24	0.0	0.0	271,0,0
		473	0.20	0.0	0.0	271,0,0	466	0.19	0.0	0.0	271,0,0
406	ok	466	0.21	0.0	0.0	267,0,0	473	0.22	0.0	0.0	267,0,0
		474	0.14	0.0	0.0	267,0,0	467	0.13	0.0	0.0	267,0,0
407	ok	467	0.15	0.0	0.0	269,0,0	474	0.16	0.0	0.0	269,0,0
		475	0.21	0.0	0.0	270,0,0	468	0.19	0.0	0.0	270,0,0
408	ok	468	0.23	0.0	0.0	270,0,0	475	0.25	0.0	0.0	270,0,0
		287	0.44	0.0	0.0	270,0,0	278	0.41	0.0	0.0	270,0,0
409	ok	82	0.25	0.0	0.0	267,0,0	91	0.27	0.0	0.0	267,0,0
		476	0.23	0.0	0.0	264,0,0	469	0.21	0.0	0.0	264,0,0
410	ok	469	0.16	0.0	0.0	270,0,0	476	0.18	0.0	0.0	264,0,0
		477	0.26	0.0	0.0	264,0,0	470	0.24	0.0	0.0	270,0,0
411	ok	470	0.20	0.0	0.0	270,0,0	477	0.22	0.0	0.0	270,0,0
		478	0.26	0.0	0.0	270,0,0	471	0.24	0.0	0.0	270,0,0
412	ok	471	0.21	0.0	0.0	271,0,0	478	0.21	0.0	0.0	270,0,0
		479	0.21	0.0	0.0	270,0,0	472	0.20	0.0	0.0	270,0,0
413	ok	472	0.23	0.0	0.0	271,0,0	479	0.24	0.0	0.0	271,0,0
		480	0.19	0.0	0.0	271,0,0	473	0.19	0.0	0.0	271,0,0
414	ok	473	0.21	0.0	0.0	267,0,0	480	0.22	0.0	0.0	267,0,0
		481	0.14	0.0	0.0	267,0,0	474	0.13	0.0	0.0	267,0,0
415	ok	474	0.15	0.0	0.0	269,0,0	481	0.16	0.0	0.0	269,0,0
		482	0.22	0.0	0.0	270,0,0	475	0.21	0.0	0.0	270,0,0
416	ok	475	0.25	0.0	0.0	270,0,0	482	0.27	0.0	0.0	270,0,0
		296	0.46	0.0	0.0	270,0,0	287	0.44	0.0	0.0	270,0,0
417	ok	91	0.27	0.0	0.0	267,0,0	100	0.30	0.0	0.0	267,0,0
		483	0.26	0.0	0.0	264,0,0	476	0.23	0.0	0.0	264,0,0
418	ok	476	0.18	0.0	0.0	270,0,0	483	0.20	0.0	0.0	264,0,0
		484	0.28	0.0	0.0	264,0,0	477	0.26	0.0	0.0	270,0,0
419	ok	477	0.21	0.0	0.0	270,0,0	484	0.23	0.0	0.0	270,0,0
		485	0.27	0.0	0.0	270,0,0	478	0.25	0.0	0.0	270,0,0
420	ok	478	0.21	0.0	0.0	270,0,0	485	0.22	0.0	0.0	270,0,0
		486	0.22	0.0	0.0	270,0,0	479	0.21	0.0	0.0	270,0,0
421	ok	479	0.23	0.0	0.0	271,0,0	486	0.23	0.0	0.0	271,0,0
		487	0.18	0.0	0.0	271,0,0	480	0.18	0.0	0.0	271,0,0
422	ok	480	0.21	0.0	0.0	267,0,0	487	0.22	0.0	0.0	267,0,0
		488	0.13	0.0	0.0	267,0,0	481	0.13	0.0	0.0	267,0,0
423	ok	481	0.16	0.0	0.0	269,0,0	488	0.17	0.0	0.0	269,0,0
		489	0.23	0.0	0.0	270,0,0	482	0.22	0.0	0.0	270,0,0
424	ok	482	0.27	0.0	0.0	270,0,0	489	0.28	0.0	0.0	270,0,0
		6	0.47	0.0	0.0	270,0,0	296	0.46	0.0	0.0	270,0,0
425	ok	100	0.29	0.0	0.0	267,0,0	109	0.32	0.0	0.0	267,0,0
		490	0.29	0.0	0.0	264,0,0	483	0.26	0.0	0.0	264,0,0
426	ok	483	0.20	0.0	0.0	270,0,0	490	0.22	0.0	0.0	264,0,0
		491	0.30	0.0	0.0	264,0,0	484	0.28	0.0	0.0	264,0,0
427	ok	484	0.23	0.0	0.0	270,0,0	491	0.24	0.0	0.0	264,0,0
		492	0.28	0.0	0.0	264,0,0	485	0.27	0.0	0.0	270,0,0
428	ok	485	0.22	0.0	0.0	270,0,0	492	0.23	0.0	0.0	270,0,0
		493	0.22	0.0	0.0	270,0,0	486	0.21	0.0	0.0	270,0,0
429	ok	486	0.22	0.0	0.0	271,0,0	493	0.22	0.0	0.0	271,0,0
		494	0.18	0.0	0.0	271,0,0	487	0.18	0.0	0.0	271,0,0
430	ok	487	0.21	0.0	0.0	267,0,0	494	0.21	0.0	0.0	267,0,0
		495	0.13	0.0	0.0	267,0,0	488	0.13	0.0	0.0	267,0,0
431	ok	488	0.16	0.0	0.0	269,0,0	495	0.17	0.0	0.0	269,0,0
		496	0.25	0.0	0.0	264,0,0	489	0.23	0.0	0.0	270,0,0
432	ok	489	0.28	0.0	0.0	270,0,0	496	0.30	0.0	0.0	270,0,0
		12	0.49	0.0	0.0	270,0,0	6	0.47	0.0	0.0	270,0,0
433	ok	109	0.32	0.0	0.0	267,0,0	118	0.34	0.0	0.0	267,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 274 di
378

Guscio	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
		497	0.31	0.0	0.0	264,0,0	490	0.29	0.0	0.0	264,0,0
434	ok	490	0.22	0.0	0.0	264,0,0	497	0.24	0.0	0.0	264,0,0
		498	0.32	0.0	0.0	264,0,0	491	0.30	0.0	0.0	264,0,0
435	ok	491	0.24	0.0	0.0	264,0,0	498	0.26	0.0	0.0	264,0,0
		499	0.29	0.0	0.0	264,0,0	492	0.28	0.0	0.0	270,0,0
436	ok	492	0.22	0.0	0.0	270,0,0	499	0.23	0.0	0.0	270,0,0
		500	0.23	0.0	0.0	270,0,0	493	0.22	0.0	0.0	270,0,0
437	ok	493	0.22	0.0	0.0	271,0,0	500	0.22	0.0	0.0	271,0,0
		501	0.17	0.0	0.0	271,0,0	494	0.17	0.0	0.0	271,0,0
438	ok	494	0.21	0.0	0.0	271,0,0	501	0.21	0.0	0.0	271,0,0
		502	0.13	0.0	0.0	271,0,0	495	0.12	0.0	0.0	267,0,0
439	ok	495	0.16	0.0	0.0	269,0,0	502	0.17	0.0	0.0	269,0,0
		503	0.26	0.0	0.0	264,0,0	496	0.25	0.0	0.0	264,0,0
440	ok	496	0.30	0.0	0.0	264,0,0	503	0.32	0.0	0.0	264,0,0
		321	0.51	0.0	0.0	264,0,0	12	0.49	0.0	0.0	270,0,0
441	ok	118	0.33	0.0	0.0	267,0,0	127	0.36	0.0	0.0	267,0,0
		504	0.34	0.0	0.0	264,0,0	497	0.32	0.0	0.0	264,0,0
442	ok	497	0.24	0.0	0.0	264,0,0	504	0.26	0.0	0.0	264,0,0
		505	0.34	0.0	0.0	264,0,0	498	0.32	0.0	0.0	264,0,0
443	ok	498	0.26	0.0	0.0	264,0,0	505	0.27	0.0	0.0	264,0,0
		506	0.31	0.0	0.0	264,0,0	499	0.29	0.0	0.0	264,0,0
444	ok	499	0.23	0.0	0.0	264,0,0	506	0.24	0.0	0.0	264,0,0
		507	0.23	0.0	0.0	264,0,0	500	0.22	0.0	0.0	264,0,0
445	ok	500	0.21	0.0	0.0	271,0,0	507	0.21	0.0	0.0	271,0,0
		508	0.16	0.0	0.0	271,0,0	501	0.16	0.0	0.0	271,0,0
446	ok	501	0.21	0.0	0.0	271,0,0	508	0.21	0.0	0.0	271,0,0
		509	0.13	0.0	0.0	271,0,0	502	0.12	0.0	0.0	271,0,0
447	ok	502	0.17	0.0	0.0	269,0,0	509	0.18	0.0	0.0	269,0,0
		510	0.27	0.0	0.0	264,0,0	503	0.26	0.0	0.0	264,0,0
448	ok	503	0.32	0.0	0.0	264,0,0	510	0.33	0.0	0.0	264,0,0
		330	0.53	0.0	0.0	264,0,0	321	0.51	0.0	0.0	264,0,0
449	ok	127	0.35	0.0	0.0	267,0,0	136	0.37	0.0	0.0	267,0,0
		511	0.36	0.0	0.0	264,0,0	504	0.34	0.0	0.0	264,0,0
450	ok	504	0.26	0.0	0.0	264,0,0	511	0.28	0.0	0.0	264,0,0
		512	0.36	0.0	0.0	264,0,0	505	0.34	0.0	0.0	264,0,0
451	ok	505	0.27	0.0	0.0	264,0,0	512	0.28	0.0	0.0	264,0,0
		513	0.32	0.0	0.0	264,0,0	506	0.30	0.0	0.0	264,0,0
452	ok	506	0.24	0.0	0.0	264,0,0	513	0.25	0.0	0.0	264,0,0
		514	0.24	0.0	0.0	264,0,0	507	0.23	0.0	0.0	264,0,0
453	ok	507	0.20	0.0	0.0	271,0,0	514	0.20	0.0	0.0	271,0,0
		515	0.16	0.0	0.0	267,0,0	508	0.16	0.0	0.0	271,0,0
454	ok	508	0.21	0.0	0.0	271,0,0	515	0.21	0.0	0.0	271,0,0
		516	0.13	0.0	0.0	271,0,0	509	0.12	0.0	0.0	271,0,0
455	ok	509	0.17	0.0	0.0	267,0,0	516	0.18	0.0	0.0	267,0,0
		517	0.28	0.0	0.0	264,0,0	510	0.27	0.0	0.0	264,0,0
456	ok	510	0.34	0.0	0.0	264,0,0	517	0.35	0.0	0.0	264,0,0
		339	0.54	0.0	0.0	264,0,0	330	0.53	0.0	0.0	264,0,0
457	ok	136	0.37	0.0	0.0	267,0,0	145	0.39	0.0	0.0	267,0,0
		518	0.39	0.0	0.0	264,0,0	511	0.36	0.0	0.0	264,0,0
458	ok	511	0.28	0.0	0.0	264,0,0	518	0.30	0.0	0.0	264,0,0
		519	0.38	0.0	0.0	264,0,0	512	0.36	0.0	0.0	264,0,0
459	ok	512	0.28	0.0	0.0	264,0,0	519	0.30	0.0	0.0	264,0,0
		520	0.34	0.0	0.0	264,0,0	513	0.32	0.0	0.0	264,0,0
460	ok	513	0.25	0.0	0.0	264,0,0	520	0.26	0.0	0.0	264,0,0
		521	0.25	0.0	0.0	264,0,0	514	0.24	0.0	0.0	264,0,0
461	ok	514	0.20	0.0	0.0	267,0,0	521	0.20	0.0	0.0	267,0,0
		522	0.16	0.0	0.0	267,0,0	515	0.15	0.0	0.0	267,0,0
462	ok	515	0.21	0.0	0.0	271,0,0	522	0.21	0.0	0.0	271,0,0
		523	0.13	0.0	0.0	267,0,0	516	0.12	0.0	0.0	267,0,0
463	ok	516	0.18	0.0	0.0	267,0,0	523	0.19	0.0	0.0	267,0,0
		524	0.29	0.0	0.0	264,0,0	517	0.28	0.0	0.0	264,0,0
464	ok	517	0.35	0.0	0.0	264,0,0	524	0.37	0.0	0.0	264,0,0
		348	0.56	0.0	0.0	264,0,0	339	0.54	0.0	0.0	264,0,0
465	ok	145	0.39	0.0	0.0	267,0,0	154	0.41	0.0	0.0	267,0,0
		525	0.41	0.0	0.0	264,0,0	518	0.39	0.0	0.0	264,0,0
466	ok	518	0.30	0.0	0.0	264,0,0	525	0.32	0.0	0.0	264,0,0
		526	0.40	0.0	0.0	264,0,0	519	0.39	0.0	0.0	264,0,0
467	ok	519	0.30	0.0	0.0	264,0,0	526	0.32	0.0	0.0	264,0,0
		527	0.35	0.0	0.0	264,0,0	520	0.34	0.0	0.0	264,0,0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 275 di
378

Guscio	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
468	ok	520	0.26	0.0	0.0	264,0,0	527	0.26	0.0	0.0	264,0,0
		528	0.26	0.0	0.0	264,0,0	521	0.25	0.0	0.0	264,0,0
469	ok	521	0.20	0.0	0.0	267,0,0	528	0.20	0.0	0.0	267,0,0
		529	0.15	0.0	0.0	267,0,0	522	0.15	0.0	0.0	267,0,0
470	ok	522	0.21	0.0	0.0	271,0,0	529	0.22	0.0	0.0	271,0,0
		530	0.13	0.0	0.0	267,0,0	523	0.12	0.0	0.0	267,0,0
471	ok	523	0.19	0.0	0.0	267,0,0	530	0.20	0.0	0.0	267,0,0
		531	0.31	0.0	0.0	264,0,0	524	0.30	0.0	0.0	264,0,0
472	ok	524	0.37	0.0	0.0	264,0,0	531	0.39	0.0	0.0	264,0,0
		357	0.58	0.0	0.0	264,0,0	348	0.56	0.0	0.0	264,0,0
473	ok	154	0.41	0.0	0.0	267,0,0	163	0.43	0.0	0.0	267,0,0
		532	0.44	0.0	0.0	264,0,0	525	0.41	0.0	0.0	264,0,0
474	ok	525	0.32	0.0	0.0	264,0,0	532	0.34	0.0	0.0	264,0,0
		533	0.42	0.0	0.0	264,0,0	526	0.41	0.0	0.0	264,0,0
475	ok	526	0.32	0.0	0.0	264,0,0	533	0.33	0.0	0.0	264,0,0
		534	0.37	0.0	0.0	264,0,0	527	0.35	0.0	0.0	264,0,0
476	ok	527	0.26	0.0	0.0	264,0,0	534	0.28	0.0	0.0	264,0,0
		535	0.27	0.0	0.0	264,0,0	528	0.26	0.0	0.0	264,0,0
477	ok	528	0.20	0.0	0.0	267,0,0	535	0.20	0.0	0.0	267,0,0
		536	0.15	0.0	0.0	267,0,0	529	0.15	0.0	0.0	267,0,0
478	ok	529	0.21	0.0	0.0	271,0,0	536	0.22	0.0	0.0	271,0,0
		537	0.13	0.0	0.0	267,0,0	530	0.12	0.0	0.0	267,0,0
479	ok	530	0.20	0.0	0.0	267,0,0	537	0.21	0.0	0.0	267,0,0
		538	0.32	0.0	0.0	264,0,0	531	0.31	0.0	0.0	264,0,0
480	ok	531	0.39	0.0	0.0	264,0,0	538	0.41	0.0	0.0	264,0,0
		366	0.60	0.0	0.0	264,0,0	357	0.58	0.0	0.0	264,0,0
481	ok	163	0.43	0.0	0.0	267,0,0	172	0.45	0.0	0.0	267,0,0
		539	0.46	0.0	0.0	264,0,0	532	0.44	0.0	0.0	264,0,0
482	ok	532	0.34	0.0	0.0	264,0,0	539	0.36	0.0	0.0	264,0,0
		540	0.44	0.0	0.0	264,0,0	533	0.43	0.0	0.0	264,0,0
483	ok	533	0.33	0.0	0.0	264,0,0	540	0.35	0.0	0.0	264,0,0
		541	0.38	0.0	0.0	264,0,0	534	0.37	0.0	0.0	264,0,0
484	ok	534	0.28	0.0	0.0	264,0,0	541	0.28	0.0	0.0	264,0,0
		542	0.28	0.0	0.0	264,0,0	535	0.27	0.0	0.0	264,0,0
485	ok	535	0.20	0.0	0.0	267,0,0	542	0.20	0.0	0.0	267,0,0
		543	0.15	0.0	0.0	267,0,0	536	0.15	0.0	0.0	267,0,0
486	ok	536	0.21	0.0	0.0	271,0,0	543	0.22	0.0	0.0	271,0,0
		544	0.13	0.0	0.0	267,0,0	537	0.11	0.0	0.0	267,0,0
487	ok	537	0.20	0.0	0.0	267,0,0	544	0.22	0.0	0.0	267,0,0
		545	0.33	0.0	0.0	264,0,0	538	0.32	0.0	0.0	264,0,0
488	ok	538	0.41	0.0	0.0	264,0,0	545	0.43	0.0	0.0	264,0,0
		418	0.62	0.0	0.0	264,0,0	366	0.60	0.0	0.0	264,0,0
489	ok	172	0.45	0.0	0.0	267,0,0	181	0.47	0.0	0.0	267,0,0
		546	0.49	0.0	0.0	264,0,0	539	0.46	0.0	0.0	264,0,0
490	ok	539	0.37	0.0	0.0	264,0,0	546	0.39	0.0	0.0	264,0,0
		547	0.47	0.0	0.0	264,0,0	540	0.45	0.0	0.0	264,0,0
491	ok	540	0.35	0.0	0.0	264,0,0	547	0.36	0.0	0.0	264,0,0
		548	0.40	0.0	0.0	264,0,0	541	0.38	0.0	0.0	264,0,0
492	ok	541	0.28	0.0	0.0	264,0,0	548	0.29	0.0	0.0	264,0,0
		549	0.28	0.0	0.0	264,0,0	542	0.28	0.0	0.0	264,0,0
493	ok	542	0.20	0.0	0.0	267,0,0	549	0.20	0.0	0.0	267,0,0
		550	0.15	0.0	0.0	267,0,0	543	0.15	0.0	0.0	267,0,0
494	ok	543	0.21	0.0	0.0	271,0,0	550	0.22	0.0	0.0	271,0,0
		551	0.12	0.0	0.0	267,0,0	544	0.12	0.0	0.0	267,0,0
495	ok	544	0.21	0.0	0.0	267,0,0	551	0.22	0.0	0.0	267,0,0
		552	0.34	0.0	0.0	264,0,0	545	0.33	0.0	0.0	264,0,0
496	ok	545	0.43	0.0	0.0	264,0,0	552	0.45	0.0	0.0	264,0,0
		383	0.63	0.0	0.0	264,0,0	418	0.62	0.0	0.0	264,0,0
497	ok	181	0.47	0.0	0.0	267,0,0	190	0.49	0.0	0.0	267,0,0
		553	0.52	0.0	0.0	264,0,0	546	0.49	0.0	0.0	264,0,0
498	ok	546	0.39	0.0	0.0	264,0,0	553	0.41	0.0	0.0	264,0,0
		554	0.49	0.0	0.0	264,0,0	547	0.47	0.0	0.0	264,0,0
499	ok	547	0.36	0.0	0.0	264,0,0	554	0.38	0.0	0.0	264,0,0
		555	0.41	0.0	0.0	264,0,0	548	0.40	0.0	0.0	264,0,0
500	ok	548	0.29	0.0	0.0	264,0,0	555	0.30	0.0	0.0	264,0,0
		556	0.29	0.0	0.0	264,0,0	549	0.28	0.0	0.0	264,0,0
501	ok	549	0.20	0.0	0.0	267,0,0	556	0.21	0.0	0.0	264,0,0
		557	0.15	0.0	0.0	270,0,0	550	0.14	0.0	0.0	267,0,0
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MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 276 di
378

Guscio	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
1445	ok	1075	0.05	0.0	0.0	279,0,0	1068	0.04	0.0	0.0	279,0,0
Guscio			V N/M	V V/T cls	V V/T acc			V N/M	V V/T cls	V V/T acc	
			0.73	0.81	0.89						

19 VERIFICHE PALI DI FONDAZIONE

MATERIALI

Calcestruzzo:

Caratteristiche meccaniche del calcestruzzo:

R_{ck}	Resistenza cubica
f_{ck}	Resistenza cilindrica
f_{ctm}	Resistenza media a trazione semplice assiale
f_{cd}	Resistenza di progetto a compressione ($\alpha_{cc} = 0,85$)
f_{ctd}	Resistenza di progetto a trazione
E_c	Modulo elastico
G_c	Modulo di elasticità tangenziale
ρ_c	Peso per unità di volume

Calcestruzzo pali: classe: C25/30

R_{ck}	f_{ck}	f_{ctm}	f_{cd}	f_{ctd}	E_c	G_c	ρ_c
daN/cm ²	daN/cm ²	daN/cm ²	daN/cm ²	daN/cm ²	daN/cm ²	daN/cm ²	daN/mc
300	249	25,6	141,1	11,9	314470	140388	2500

Condizioni ambientali pali: ordinarie

Acciaio per armature:

Caratteristiche meccaniche dell'acciaio:

f_{yk}	Tensione di snervamento
f_{yd}	Resistenza di progetto
f_{tk}	Tensione di rottura
E	Modulo elastico
ρ_A	Peso per unità di volume

Acciaio:

Classe	f_{yk}	f_{yd}	f_{tk}	E	ρ_A	Aderenza
	daN/cm ²	daN/cm ²	daN/cm ²	daN/cm ²	daN/mc	
B450C	4500	3913,0	5400	2060000	7850,0	Migliorata

PALO 222

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	222	SLU STR.	9032,4	204,4	-56840	36000	-744800	1,4
2	222	SLU STR.	-28270	-563,4	-57240	-26000	2046000	420,8
3	222	SLU STR.	8984,9	198,1	-43880	30980	-724200	-21,4
4	222	SLU STR.	-28320	-569,7	-44280	-31020	2067000	398
5	222	SLU STR.	9038,3	203,5	-56220	35680	-745000	0,0
6	222	SLU STR.	-28270	-564,2	-56620	-26310	2046000	419,4
7	222	SLU STR.	8990,8	197,3	-43250	30670	-724500	-22,7
8	222	SLU STR.	-28310	-570,5	-43650	-31330	2067000	396,7
9	222	SLU STR.	9029,4	256,6	-56470	52100	-743300	-36,7
10	222	SLU STR.	-28280	-511,2	-56870	-9896,6	2048000	382,7

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 278 di
378

11	222	SLU STR.	8982,0	250,3	-43510	47090	-722800	-59,4
12	222	SLU STR.	-28320	-517,5	-43910	-14910	2068000	360,0
13	222	SLU STR.	9025,6	145,4	-56470	18750	-742900	38,1
14	222	SLU STR.	-28280	-622,4	-56870	-43250	2048000	457,5
15	222	SLU STR.	8978,1	139,1	-43500	13740	-722400	15,3
16	222	SLU STR.	-28330	-628,6	-43900	-48260	2069000	434,7
17	222	SLU STR.	14970	324,6	-55530	45210	-1188000	-67,9
18	222	SLU STR.	-47210	-955,1	-56200	-58120	3464000	631,1
19	222	SLU STR.	14920	318,3	-42570	40200	-1168000	-90,6
20	222	SLU STR.	-47260	-961,3	-43230	-63130	3484000	608,3
21	222	SLU STR.	9044,2	202,7	-55590	35370	-745300	-1,3
22	222	SLU STR.	-28260	-565,1	-55990	-26620	2046000	418,1
23	222	SLU STR.	8996,8	196,4	-42630	30360	-724800	-24,1
24	222	SLU STR.	-28310	-571,4	-43030	-31640	2066000	395,3
25	222	SLU STR.	9508,6	197,0	-56460	35440	-777100	10,4
26	222	SLU STR.	-27800	-570,8	-56860	-26550	2014000	429,7
27	222	SLU STR.	9461,1	190,7	-43490	30430	-756600	-12,4
28	222	SLU STR.	-27840	-577,1	-43890	-31570	2035000	407,0
29	222	SLU STR.	9514,5	196,2	-55830	35130	-777400	9,0
30	222	SLU STR.	-27790	-571,6	-56230	-26870	2014000	428,4
31	222	SLU STR.	9467,0	189,9	-42870	30120	-756900	-13,7
32	222	SLU STR.	-27840	-577,9	-43270	-31880	2034000	405,6
33	222	SLU STR.	9505,6	249,2	-56090	51550	-775700	-27,7
34	222	SLU STR.	-27800	-518,6	-56490	-10450	2016000	391,7
35	222	SLU STR.	9458,1	242,9	-43130	46530	-755200	-50,4
36	222	SLU STR.	-27850	-524,9	-43530	-15460	2036000	368,9
37	222	SLU STR.	9501,8	138,0	-56080	18200	-775300	47,1
38	222	SLU STR.	-27800	-629,8	-56480	-43800	2016000	466,4
39	222	SLU STR.	9454,3	131,8	-43120	13180	-754800	24,3
40	222	SLU STR.	-27850	-636,0	-43520	-48810	2036000	443,7
41	222	SLU STR.	15440	317,2	-55150	44660	-1221000	-58,9
42	222	SLU STR.	-46730	-962,5	-55810	-58670	3431000	640,1
43	222	SLU STR.	15390	310,9	-42180	39650	-1200000	-81,6
44	222	SLU STR.	-46780	-968,7	-42850	-63680	3452000	617,3
45	222	SLU STR.	9837,9	190,4	-54950	34450	-799200	13,7
46	222	SLU STR.	-27470	-577,4	-55350	-27550	1992000	433,0
47	222	SLU STR.	9790,4	184,1	-41990	29440	-778700	-9,1
48	222	SLU STR.	-27520	-583,7	-42390	-32560	2012000	410,3
49	222	SLU STR.	9520,4	195,3	-55210	34820	-777600	7,7
50	222	SLU STR.	-27780	-572,5	-55610	-27180	2014000	427,0
51	222	SLU STR.	9472,9	189,0	-42250	29800	-757100	-15,1
52	222	SLU STR.	-27830	-578,7	-42650	-32190	2034000	404,3
53	222	SLU STR.	8794,3	208,1	-57030	36270	-728600	-3,1
54	222	SLU STR.	-28510	-559,7	-57430	-25720	2063000	416,3
55	222	SLU STR.	8746,8	201,8	-44070	31260	-708000	-25,9
56	222	SLU STR.	-28560	-566,0	-44470	-30740	2083000	393,5
57	222	SLU STR.	8800,2	207,2	-56410	35960	-728800	-4,5
58	222	SLU STR.	-28510	-560,6	-56810	-26040	2062000	414,9
59	222	SLU STR.	8752,7	201,0	-43450	30950	-708300	-27,2
60	222	SLU STR.	-28550	-566,8	-43850	-31050	2083000	392,2
61	222	SLU STR.	8791,3	260,2	-56660	52380	-727100	-41,2
62	222	SLU STR.	-28510	-507,5	-57060	-9620,3	2064000	378,2
63	222	SLU STR.	8743,9	254,0	-43700	47360	-706600	-63,9
64	222	SLU STR.	-28560	-513,8	-44100	-14640	2085000	355,5
65	222	SLU STR.	8787,5	149,1	-56660	19030	-726700	33,6
66	222	SLU STR.	-28520	-618,7	-57060	-42970	2064000	453,0
67	222	SLU STR.	8740	142,8	-43700	14010	-706200	10,8
68	222	SLU STR.	-28570	-625,0	-44100	-47980	2085000	430,2
69	222	SLU STR.	14730	328,3	-55720	45490	-1172000	-72,4
70	222	SLU STR.	-47450	-951,4	-56390	-57840	3480000	626,6

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 279 di
378

71	222	SLU STR.	14680	322,0	-42760	40470	-1152000	-95,1
72	222	SLU STR.	-47500	-957,7	-43420	-62850	3500000	603,8
73	222	SLU STR.	8806,1	206,4	-55790	35650	-729100	-5,8
74	222	SLU STR.	-28500	-561,4	-56180	-26350	2062000	413,6
75	222	SLU STR.	8758,7	200,1	-42820	30630	-708600	-28,6
76	222	SLU STR.	-28550	-567,7	-43220	-31360	2083000	390,8
77	222	SLU STR.	8647,4	208,8	-55910	35830	-718300	-8,8
78	222	SLU STR.	-28660	-558,9	-56310	-26160	2073000	410,6
79	222	SLU STR.	8599,9	202,6	-42950	30820	-697800	-31,6
80	222	SLU STR.	-28710	-565,2	-43350	-31180	2093000	387,8
81	222	SLU STR.	9022,2	1337,2	-56780	88830	-743600	-301,5
82	222	SLU STR.	-28280	569,5	-57180	26840	2048000	117,9
83	222	SLU STR.	8974,8	1331,0	-43820	83820	-723100	-324,2
84	222	SLU STR.	-28330	563,2	-44220	21820	2068000	95,1
85	222	SLU STR.	9028,2	1336,4	-56160	88520	-743800	-302,8
86	222	SLU STR.	-28280	568,6	-56560	26520	2047000	116,5
87	222	SLU STR.	8980,7	1330,1	-43200	83510	-723300	-325,6
88	222	SLU STR.	-28320	562,4	-43600	21510	2068000	93,8
89	222	SLU STR.	9019,3	1389,4	-56420	104900	-742100	-339,5
90	222	SLU STR.	-28290	621,6	-56820	42940	2049000	79,8
91	222	SLU STR.	8971,8	1383,1	-43450	99920	-721600	-362,3
92	222	SLU STR.	-28330	615,4	-43850	37920	2070000	57,1
93	222	SLU STR.	9015,4	1278,3	-56410	71590	-741700	-264,8
94	222	SLU STR.	-28290	510,5	-56810	9591,0	2049000	154,6
95	222	SLU STR.	8967,9	1272	-43450	66570	-721200	-287,5
96	222	SLU STR.	-28340	504,2	-43850	4575,4	2070000	131,8
97	222	SLU STR.	14960	1457,4	-55470	98050	-1187000	-370,8
98	222	SLU STR.	-47220	177,8	-56140	-5279,4	3465000	328,2
99	222	SLU STR.	14910	1451,2	-42510	93030	-1167000	-393,5
100	222	SLU STR.	-47270	171,5	-43180	-10290	3485000	305,5
101	222	SLU STR.	9034,1	1335,6	-55540	88210	-744100	-304,2
102	222	SLU STR.	-28270	567,8	-55940	26210	2047000	115,2
103	222	SLU STR.	8986,6	1329,3	-42570	83190	-723600	-326,9
104	222	SLU STR.	-28320	561,5	-42970	21200	2068000	92,4
105	222	SLU STR.	9027,3	2090,8	-55500	123400	-743300	-506,1
106	222	SLU STR.	-28280	1323,0	-55900	61440	2048000	-86,7
107	222	SLU STR.	8979,8	2084,5	-42530	118400	-722800	-528,9
108	222	SLU STR.	-28330	1316,8	-42930	56420	2068000	-109,5
109	222	SLU STR.	9036,3	-930,5	-56890	-17050	-745300	303,9
110	222	SLU STR.	-28270	-1698,3	-57290	-79050	2046000	723,2
111	222	SLU STR.	8988,8	-936,8	-43930	-22070	-724800	281,1
112	222	SLU STR.	-28320	-1704,5	-44330	-84060	2066000	700,5
113	222	SLU STR.	9042,2	-931,3	-56270	-17360	-745600	302,5
114	222	SLU STR.	-28260	-1699,1	-56670	-79360	2046000	721,9
115	222	SLU STR.	8994,7	-937,6	-43300	-22380	-725100	279,8
116	222	SLU STR.	-28310	-1705,4	-43700	-84380	2066000	699,1
117	222	SLU STR.	9033,3	-878,3	-56520	-947,1	-743900	265,8
118	222	SLU STR.	-28270	-1646,1	-56920	-62940	2047000	685,2
119	222	SLU STR.	8985,8	-884,6	-43560	-5962,7	-723400	243,1
120	222	SLU STR.	-28320	-1652,4	-43960	-67960	2068000	662,4
121	222	SLU STR.	9029,5	-989,4	-56520	-34300	-743500	340,6
122	222	SLU STR.	-28280	-1757,2	-56920	-96290	2048000	759,9
123	222	SLU STR.	8982,0	-995,7	-43550	-39310	-723000	317,8
124	222	SLU STR.	-28320	-1763,5	-43950	-101300	2068000	737,2
125	222	SLU STR.	14970	-810,3	-55580	-7834,2	-1189000	234,6
126	222	SLU STR.	-47210	-2089,9	-56250	-111200	3463000	933,6
127	222	SLU STR.	14920	-816,6	-42620	-12850	-1168000	211,9
128	222	SLU STR.	-47250	-2096,2	-43280	-116200	3484000	910,8
129	222	SLU STR.	9048,1	-932,2	-55640	-17680	-745800	301,2
130	222	SLU STR.	-28260	-1699,9	-56040	-79670	2045000	720,5

131	222	SLU STR.	9000,6	-938,4	-42680	-22690	-725300	278,4
132	222	SLU STR.	-28300	-1706,2	-43080	-84690	2066000	697,8
133	222	SLU STR.	9050,7	-1688,7	-55680	-53040	-746200	502,8
134	222	SLU STR.	-28250	-2456,5	-56080	-115000	2045000	922,2
135	222	SLU STR.	9003,2	-1695	-42720	-58060	-725700	480,1
136	222	SLU STR.	-28300	-2462,8	-43120	-120100	2065000	899,4
137	222	SLE Rare	6050,9	139	-42600	25890	-506100	8,8
138	222	SLE Rare	-18820	-372,9	-42870	-15450	1355000	288,4
139	222	SLE Rare	6054,8	138,5	-42180	25680	-506200	7,9
140	222	SLE Rare	-18820	-373,4	-42450	-15650	1355000	287,5
141	222	SLE Rare	6048,9	173,8	-42360	36620	-505100	-16,5
142	222	SLE Rare	-18820	-338,1	-42620	-4710,7	1356000	263,1
143	222	SLE Rare	6046,3	99,7	-42350	14390	-504800	33,3
144	222	SLE Rare	-18820	-412,2	-42620	-26940	1356000	312,9
145	222	SLE Rare	10010	219,1	-41730	32030	-801800	-37,4
146	222	SLE Rare	-31440	-634,0	-42170	-36860	2300000	428,6
147	222	SLE Rare	6058,8	137,9	-41770	25470	-506400	7,0
148	222	SLE Rare	-18810	-374,0	-42040	-15860	1354000	286,6
149	222	SLE Rare	6368,3	134,1	-42340	25520	-527600	14,8
150	222	SLE Rare	-18500	-377,8	-42610	-15810	1333000	294,4
151	222	SLE Rare	6372,3	133,5	-41930	25310	-527800	13,9
152	222	SLE Rare	-18500	-378,3	-42200	-16020	1333000	293,5
153	222	SLE Rare	6366,3	168,9	-42100	36250	-526700	-10,5
154	222	SLE Rare	-18500	-343,0	-42370	-5079,1	1334000	269,0
155	222	SLE Rare	6363,8	94,8	-42100	14020	-526400	39,3
156	222	SLE Rare	-18510	-417,1	-42360	-27310	1334000	318,9
157	222	SLE Rare	10320	214,2	-41470	31660	-823400	-31,4
158	222	SLE Rare	-31130	-638,9	-41920	-37220	2278000	434,6
159	222	SLE Rare	6587,8	129,7	-41340	24850	-542400	17,0
160	222	SLE Rare	-18280	-382,2	-41610	-16480	1318000	296,6
161	222	SLE Rare	6376,2	133,0	-41510	25100	-528000	13,0
162	222	SLE Rare	-18490	-378,9	-41780	-16230	1333000	292,6
163	222	SLE Rare	5892,1	141,5	-42730	26070	-495300	5,8
164	222	SLE Rare	-18980	-370,4	-42990	-15260	1366000	285,4
165	222	SLE Rare	5896,1	140,9	-42310	25860	-495400	4,9
166	222	SLE Rare	-18970	-370,9	-42580	-15470	1365000	284,5
167	222	SLE Rare	5890,2	176,3	-42480	36810	-494300	-19,5
168	222	SLE Rare	-18980	-335,6	-42750	-4526,4	1367000	260,1
169	222	SLE Rare	5887,6	102,2	-42480	14570	-494000	30,3
170	222	SLE Rare	-18980	-409,7	-42750	-26760	1367000	309,9
171	222	SLE Rare	9847,7	221,6	-41850	32210	-791000	-40,3
172	222	SLE Rare	-31600	-631,5	-42300	-36670	2310000	425,6
173	222	SLE Rare	5900,0	140,4	-41900	25650	-495600	4,0
174	222	SLE Rare	-18970	-371,5	-42160	-15680	1365000	283,6
175	222	SLE Rare	5794,2	142,0	-41980	25780	-488400	2,0
176	222	SLE Rare	-19080	-369,9	-42250	-15560	1372000	281,6
177	222	SLE Rare	6044,1	894,3	-42560	61110	-505300	-193,1
178	222	SLE Rare	-18830	382,4	-42830	19780	1356000	86,5
179	222	SLE Rare	6048,0	893,7	-42150	60900	-505400	-194,0
180	222	SLE Rare	-18820	381,8	-42410	19570	1355000	85,6
181	222	SLE Rare	6042,1	929,0	-42320	71850	-504300	-218,5
182	222	SLE Rare	-18830	417,2	-42580	30510	1357000	61,1
183	222	SLE Rare	6039,5	854,9	-42310	49610	-504000	-168,6
184	222	SLE Rare	-18830	343,1	-42580	8281,1	1357000	111,0
185	222	SLE Rare	9999,6	974,4	-41690	67250	-801000	-239,3
186	222	SLE Rare	-31450	121,3	-42130	-1632,5	2300000	226,7
187	222	SLE Rare	6052,0	893,1	-41730	60690	-505600	-194,9
188	222	SLE Rare	-18820	381,3	-42000	19360	1355000	84,7
189	222	SLE Rare	6047,5	1396,6	-41710	84180	-505100	-329,5
190	222	SLE Rare	-18820	884,8	-41970	42840	1356000	-49,9

191	222	SLE Rare	6053,4	-617,6	-42630	-9480,1	-506400	210,5
192	222	SLE Rare	-18820	-1129,4	-42900	-50810	1354000	490,1
193	222	SLE Rare	6057,4	-618,1	-42220	-9688,2	-506600	209,6
194	222	SLE Rare	-18810	-1130,0	-42490	-51020	1354000	489,2
195	222	SLE Rare	6051,5	-582,8	-42390	1255,7	-505500	185,1
196	222	SLE Rare	-18820	-1094,6	-42660	-40080	1355000	464,7
197	222	SLE Rare	6048,9	-656,9	-42390	-20980	-505200	235,0
198	222	SLE Rare	-18820	-1168,7	-42650	-62310	1356000	514,5
199	222	SLE Rare	10010	-537,4	-41760	-3335,7	-802200	164,3
200	222	SLE Rare	-31440	-1390,5	-42200	-72220	2299000	630,3
201	222	SLE Rare	6061,3	-618,7	-41800	-9896,3	-506800	208,7
202	222	SLE Rare	-18810	-1130,5	-42070	-51230	1354000	488,3
203	222	SLE Rare	6063,1	-1123,1	-41830	-33470	-507000	343,1
204	222	SLE Rare	-18810	-1634,9	-42090	-74800	1354000	622,7
205	222	SLE Freq.	170,9	18,5	-39860	15320	-67390	69,1
206	222	SLE Freq.	167,0	19,1	-40270	15530	-67220	70
207	222	SLE Freq.	164,4	42,4	-40250	22760	-66510	53,4
208	222	SLE Freq.	162,7	-7,0	-40250	7937,6	-66340	86,6
209	222	SLE Freq.	5105,5	120,1	-39810	23530	-436600	13,6
210	222	SLE Freq.	-15620	-306,5	-40030	-10920	1114000	246,6
211	222	SLE Freq.	276,8	16,9	-39770	15200	-74590	71,1
212	222	SLE Freq.	118,0	19,3	-39900	15390	-63790	68,1
213	222	SLE Freq.	168,7	270,3	-39850	27070	-67130	1,8
214	222	SLE Freq.	171,8	-233,7	-39870	3536,0	-67520	136,3
215	222	SLE Quasi P.	170,9	18,5	-39860	15320	-67390	69,1
216	222	SLU A1 sism.	6814,2	-718,0	-26190	-173800	-489800	1513,0
217	222	SLU A1 sism.	6949,1	-3590,9	-26720	-126100	-505400	3025,2
218	222	SLU A1 sism.	-6607,3	3627,9	-53000	156800	370600	-2887,0
219	222	SLU A1 sism.	-6472,4	755,0	-53530	204400	355000	-1374,8
220	222	SLU A1 sism.	6818,5	234,9	-26190	-92840	-490400	619,2
221	222	SLU A1 sism.	6944,9	-4543,8	-26710	-207100	-504800	3918,9
222	222	SLU A1 sism.	-6603,0	4580,8	-53010	237700	370100	-3780,7
223	222	SLU A1 sism.	-6476,6	-197,9	-53520	123500	355600	-481,0
224	222	SLU A1 sism.	6805,5	3215,7	-26070	161500	-488400	-2053,3
225	222	SLU A1 sism.	6940,4	342,8	-26610	209200	-504100	-541,0
226	222	SLU A1 sism.	-6598,5	-305,8	-53110	-178500	369300	679,2
227	222	SLU A1 sism.	-6463,6	-3178,7	-53640	-130900	353700	2191,5
228	222	SLU A1 sism.	6809,7	4168,6	-26080	242500	-489000	-2947
229	222	SLU A1 sism.	6936,1	-610,1	-26600	128200	-503500	352,7
230	222	SLU A1 sism.	-6594,3	647,1	-53120	-97560	368700	-214,5
231	222	SLU A1 sism.	-6467,8	-4131,6	-53630	-211800	354200	3085,2
232	222	SLU A1 sism.	1959,3	4154,7	-34950	-113700	-170500	-1791,3
233	222	SLU A1 sism.	2409,0	-5421,5	-36730	45150	-222500	3249,5
234	222	SLU A1 sism.	-2067,1	5458,5	-42990	-14500	87680	-3111,3
235	222	SLU A1 sism.	-1617,5	-4117,7	-44770	144300	35680	1929,5
236	222	SLU A1 sism.	1956,7	5334,8	-34910	-13080	-170000	-2861,2
237	222	SLU A1 sism.	2406,4	-4241,4	-36690	145700	-222000	2179,6
238	222	SLU A1 sism.	-2064,5	4278,4	-43020	-115100	87270	-2041,4
239	222	SLU A1 sism.	-1614,8	-5297,8	-44800	43730	35270	2999,4
240	222	SLU A1 sism.	1973,4	7331,1	-34980	156100	-172300	-4770,5
241	222	SLU A1 sism.	2394,9	-8597,8	-36700	-224700	-220600	6228,7
242	222	SLU A1 sism.	-2053,0	8634,8	-43020	255300	85780	-6090,5
243	222	SLU A1 sism.	-1631,6	-7294,1	-44740	-125500	37570	4908,7
244	222	SLU A1 sism.	1970,8	8511,2	-34940	256700	-171900	-5840,4
245	222	SLU A1 sism.	2392,3	-7417,7	-36670	-124100	-220200	5158,8
246	222	SLU A1 sism.	-2050,4	7454,7	-43050	154700	85370	-5020,6
247	222	SLU A1 sism.	-1628,9	-8474,2	-44780	-226100	37160	5978,6

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 17 Ø 20 = 53,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 5, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
72	222	0	-43424,8	47505,2	3500950	0,750	0,181	0,737	Ok
54	222	0	-57431,7	28516,6	2062796	0,431	0,240	0,432	Ok
72	222	-50	-43375,7	29918,3	1288190	0,276	0,181	0,464	Ok
54	222	-50	-57366,6	17834,3	736292,2	0,154	0,240	0,270	Ok
237	222	-100	-36534,7	1127,3	383590,8	0,083	0,153	0,018	Ok
54	222	-100	-57184,0	8687,5	155995,1	0,033	0,239	0,132	Ok
72	222	-100	-43237,6	14746,3	207834	0,045	0,181	0,229	Ok
72	222	-150	-43052,5	3222,7	945067,4	0,203	0,180	0,050	Ok
54	222	-150	-56939,2	1795,8	589981,6	0,123	0,238	0,027	Ok
72	222	-200	-42904,9	2536,4	1106190	0,237	0,179	0,039	Ok
54	222	-200	-56743,9	1598,6	679697,5	0,142	0,237	0,024	Ok
72	222	-250	-42836,2	3066,9	979369,5	0,210	0,179	0,048	Ok
54	222	-250	-56653,2	1895,6	599770,2	0,126	0,237	0,029	Ok
72	222	-300	-42803,9	3046,3	826026,4	0,177	0,179	0,047	Ok
54	222	-300	-56610,4	1878,0	504992,7	0,106	0,236	0,029	Ok
72	222	-350	-42766,3	2934,3	673713,5	0,145	0,179	0,046	Ok
54	222	-350	-56560,7	1805,4	411091,5	0,086	0,236	0,027	Ok
72	222	-400	-42723,6	2765,8	527000,5	0,113	0,178	0,043	Ok
54	222	-400	-56504,2	1699,1	320820,6	0,067	0,236	0,026	Ok
72	222	-450	-42670,7	2520,8	388711,9	0,083	0,178	0,039	Ok
54	222	-450	-56434,3	1546,1	235866,1	0,049	0,236	0,023	Ok
72	222	-500	-42602,9	2069,8	262674,1	0,056	0,178	0,032	Ok
54	222	-500	-56344,6	1266,3	158560,7	0,033	0,235	0,019	Ok
72	222	-550	-42525,3	1594,4	159181,9	0,034	0,178	0,025	Ok
54	222	-550	-56241,9	972,5	95247,0	0,020	0,235	0,015	Ok
72	222	-600	-42442,9	1168,2	79460,3	0,017	0,177	0,018	Ok
54	222	-600	-56133,0	710,0	46623,8	0,010	0,235	0,011	Ok
72	222	-650	-42356,0	804,1	21053,0	0,005	0,177	0,012	Ok
54	222	-650	-56018,1	486,4	11138,2	0,002	0,234	0,007	Ok
237	222	-700	-35712,5	53,1	21787,2	0,005	0,149	0,001	Ok
54	222	-700	-55897,2	304,1	13211,1	0,003	0,234	0,005	Ok
72	222	-700	-42264,6	506,4	19155,2	0,004	0,177	0,008	Ok
72	222	-750	-42168,8	273,6	44474,7	0,010	0,176	0,004	Ok
54	222	-750	-55770,5	162,0	28408,2	0,006	0,233	0,002	Ok
72	222	-800	-42068,9	100,0	58154,0	0,012	0,176	0,002	Ok
54	222	-800	-55638,3	56,3	36503,3	0,008	0,232	0,001	Ok
72	222	-850	-41964,8	22,3	63151,7	0,014	0,175	0,000	Ok
54	222	-850	-55500,6	17,9	39316,6	0,008	0,232	0,000	Ok
237	222	-850	-35459,2	54,0	22276,8	0,005	0,148	0,001	Ok
72	222	-900	-41856,7	101,9	62036,5	0,013	0,175	0,002	Ok
54	222	-900	-55357,7	65,7	38426,7	0,008	0,231	0,001	Ok
72	222	-950	-41744,8	147,7	56939,5	0,012	0,174	0,002	Ok
54	222	-950	-55209,7	93,0	35139,8	0,007	0,231	0,001	Ok

72	222	-1000	-41629,2	167,8	49553,7	0,011	0,174	0,003	Ok
54	222	-1000	-55056,8	104,6	30490,8	0,006	0,230	0,002	Ok
72	222	-1050	-41509,9	169,3	41164,8	0,009	0,173	0,003	Ok
54	222	-1050	-54899,0	104,9	25263,2	0,005	0,229	0,002	Ok
72	222	-1100	-41387,1	158,2	32700,4	0,007	0,173	0,002	Ok
54	222	-1100	-54736,7	97,6	20020,0	0,004	0,229	0,001	Ok
72	222	-1150	-41261,0	139,4	24788,3	0,005	0,172	0,002	Ok
54	222	-1150	-54569,8	85,7	15140,2	0,003	0,228	0,001	Ok
72	222	-1200	-41131,6	116,6	17816,1	0,004	0,172	0,002	Ok
54	222	-1200	-54398,7	71,4	10855,5	0,002	0,227	0,001	Ok
72	222	-1250	-40999,1	92,3	11988	0,003	0,171	0,001	Ok
54	222	-1250	-54223,4	56,3	7285,9	0,002	0,227	0,001	Ok
72	222	-1300	-40863,5	68,3	7375,4	0,002	0,171	0,001	Ok
54	222	-1300	-54044,2	41,6	4470,3	0,001	0,226	0,001	Ok
72	222	-1350	-40725,1	45,9	3959,4	0,001	0,170	0,001	Ok
54	222	-1350	-53861,1	27,8	2392,4	0,001	0,225	0,000	Ok
72	222	-1400	-40583,9	25,6	1664,7	0,000	0,170	0,000	Ok
54	222	-1400	-53674,3	15,4	1002,2	0,000	0,224	0,000	Ok
72	222	-1450	-40439,9	7,7	385,0	0,000	0,169	0,000	Ok
54	222	-1450	-53484,0	4,6	230,5	0,000	0,223	0,000	Ok
224	222	-1500	-24282,4	1,2	0	0	0,101	0,000	Ok
54	222	-1500	-53484,0	4,6	0	0	0,223	0,000	Ok
72	222	-1500	-40439,9	7,7	0	0	0,169	0,000	Ok

Sezioni maggiormente sollecitate:

PL.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
222	72	222	0	-43424,8	47505,2	3500950	0,750	0,181	0,737
222	54	222	0	-57431,7	28516,6	2062796	0,431	0,240	0,432

S/Su massime:

Ver. N/M = 0,750 < 1 Ok

Ver. (25) = 0,240 < 1 Ok

Ver. V = 0,737 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
172	222	0	-42298,7	2310644	2109,0	-126,1	Ok
172	222	-50	-42250,8	839162,6	-578,3	-46,3	Ok
200	222	-100	-42023,0	154708,2	-238,3	-17,0	Ok
172	222	-150	-41936,0	639823,3	-462,6	-36,1	Ok
172	222	-200	-41792,2	743638,5	-521,5	-41,3	Ok
172	222	-250	-41725,3	657412,4	-471,9	-36,9	Ok
172	222	-300	-41693,8	554057,6	-415,2	-32,0	Ok
172	222	-350	-41657,2	451513,3	-363,4	-27,5	Ok
172	222	-400	-41615,6	352825,4	-319,0	-23,8	Ok
172	222	-450	-41564,1	259868,6	-280,1	-20,5	Ok
172	222	-500	-41498,0	175206,3	-244,7	-17,6	Ok
172	222	-550	-41422,4	105767,5	-215,5	-15,1	Ok
172	222	-600	-41342,2	52349,4	-193,0	-13,2	Ok
172	222	-650	-41257,6	13277,6	-176,4	-11,9	Ok
164	222	-650	-41936,2	7126,5	-176,7	-11,8	Ok
204	222	-650	-41056,3	7154,7	-173,1	-11,6	Ok
164	222	-700	-41845,7	9124,0	-177,2	-11,9	Ok
172	222	-750	-41075,2	30421,7	-182,8	-12,4	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 284 di
378

172	222	-800	-40977,9	39467,5	-186,2	-12,7	Ok
172	222	-850	-40876,5	42702,5	-187,1	-12,8	Ok
172	222	-900	-40771,2	41853,7	-186,3	-12,7	Ok
172	222	-950	-40662,2	38352,1	-184,4	-12,6	Ok
172	222	-1000	-40549,6	33333,2	-181,8	-12,4	Ok
172	222	-1050	-40433,4	27658,3	-179,0	-12,1	Ok
172	222	-1100	-40313,8	21947,7	-176,1	-11,9	Ok
172	222	-1150	-40190,9	16619,9	-173,4	-11,7	Ok
164	222	-1150	-40852,0	10128,0	-173,5	-11,6	Ok
204	222	-1150	-39994,8	10096,3	-169,9	-11,4	Ok
164	222	-1200	-40723,9	7256,8	-171,7	-11,5	Ok
164	222	-1250	-40592,7	4867,1	-170,2	-11,4	Ok
164	222	-1300	-40458,5	2983,8	-168,9	-11,3	Ok
164	222	-1350	-40321,5	1595,5	-167,1	-11,1	Ok
164	222	-1400	-40181,6	667,6	-166,5	-11,1	Ok
164	222	-1450	-40039,1	153,3	-165,9	-11,1	Ok
164	222	-1500	-40039,1	0	-165,9	-11,1	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
222	172	222	0	-42298,7	2310644	2109,0	-126,1

Valori massimi SLE condizioni rare:

Ten.massima CLS = 126,1 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 2109,0 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	222	0	-40028,1	1114123	0,037	Ok
210	222	-50	-39982,7	388148	0	Ok
210	222	-100	-39855,5	98317,4	0	Ok
210	222	-150	-39684,8	332566,5	0	Ok
210	222	-200	-39548,8	378829,1	0	Ok
210	222	-250	-39485,5	333474,9	0	Ok
210	222	-300	-39455,7	280426,8	0	Ok
210	222	-350	-39421,0	227965,2	0	Ok
210	222	-400	-39381,6	177603,1	0	Ok
210	222	-450	-39332,9	130260,5	0	Ok
210	222	-500	-39270,4	87230,3	0	Ok
210	222	-550	-39198,9	52054,1	0	Ok
210	222	-600	-39123,0	25099,9	0	Ok
210	222	-650	-39042,8	5486,8	0	Ok
210	222	-700	-38958,6	7943,4	0	Ok
210	222	-750	-38870,3	16268,6	0	Ok
210	222	-800	-38778,1	20655,6	0	Ok
210	222	-850	-38682,2	22119,8	0	Ok
210	222	-900	-38582,6	21541,4	0	Ok
210	222	-950	-38479,4	19647,0	0	Ok
210	222	-1000	-38372,8	17011,2	0	Ok
210	222	-1050	-38262,9	14068,2	0	Ok
210	222	-1100	-38149,7	11128,9	0	Ok
210	222	-1150	-38033,5	8401,7	0	Ok
210	222	-1200	-37914,2	6013,4	0	Ok
210	222	-1250	-37792,0	4028,6	0	Ok
210	222	-1300	-37667,1	2466,7	0	Ok
206	222	-1350	-37770,5	9,2	0	Ok
206	222	-1400	-37639,5	1,8	0	Ok
206	222	-1450	-37506,1	2,2	0	Ok

206	222	-1500	-37506,1	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
222	210	222	0	-40028,1	1114123	0,037

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0,037 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	222	0	-39858,9	69110,5	-13,4	0	Ok
215	222	-50	-39813,7	58677,3	-13,0	0	Ok
215	222	-100	-39687	44191,9	-12,5	0	Ok
215	222	-150	-39517,1	29562,8	-11,9	0	Ok
215	222	-200	-39381,6	18836,2	-11,5	0	Ok
215	222	-250	-39318,6	13769,0	-11,3	0	Ok
215	222	-300	-39288,9	10350,5	-11,2	0	Ok
215	222	-350	-39254,4	7303,0	-11,1	0	Ok
215	222	-400	-39215,2	4625,9	-11,0	0	Ok
215	222	-450	-39166,6	2296,5	-10,8	0	Ok
215	222	-500	-39104,4	368,0	-10,8	0	Ok
215	222	-550	-39033,2	1021,4	-10,8	0	Ok
215	222	-600	-38957,6	1853,3	-10,8	0	Ok
215	222	-650	-38877,8	2279,7	-10,7	0	Ok
215	222	-700	-38793,9	2405,7	-10,8	0	Ok
215	222	-750	-38706,0	2323,1	-10,8	0	Ok
215	222	-800	-38614,2	2107,9	-10,7	0	Ok
215	222	-850	-38518,7	1819,8	-10,6	0	Ok
215	222	-900	-38419,5	1504,0	-10,6	0	Ok
215	222	-950	-38316,8	1192,2	-10,6	0	Ok
215	222	-1000	-38210,6	905,7	-10,6	0	Ok
215	222	-1050	-38101,1	656,8	-10,5	0	Ok
215	222	-1100	-37988,5	451,3	-10,5	0	Ok
215	222	-1150	-37872,7	290,0	-10,5	0	Ok
215	222	-1200	-37753,9	170,4	-10,4	0	Ok
215	222	-1250	-37632,3	87,9	-10,4	0	Ok
215	222	-1300	-37507,9	36,2	-10,4	0	Ok
215	222	-1350	-37380,8	8,8	-10,3	0	Ok
215	222	-1400	-37251,2	2,0	-10,3	0	Ok
215	222	-1450	-37119,1	2,3	-10,3	0	Ok
215	222	-1500	-37119,1	0	-10,3	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
222	215	222	0	-39858,9	69110,5	-13,4	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 13,4 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 289

VERIFICHE DEL PLINTO

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. **286** di
378

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	289	SLU STR.	2810,2	-63,1	-52400	-1448,8	-260700	-36,7
2	289	SLU STR.	-9241,4	-641,3	-51220	-44860	636200	75,4
3	289	SLU STR.	2819,0	-18,7	-40620	1054,2	-248800	-34,3
4	289	SLU STR.	-9232,6	-596,9	-39430	-42360	648100	77,8
5	289	SLU STR.	2817	-61,5	-51780	-1390,0	-261200	-36,9
6	289	SLU STR.	-9234,6	-639,7	-50590	-44800	635700	75,2
7	289	SLU STR.	2825,8	-17,2	-39990	1113,0	-249400	-34,5
8	289	SLU STR.	-9225,8	-595,4	-38810	-42300	647500	77,6
9	289	SLU STR.	2817,1	25,8	-52090	20370	-260800	-42,7
10	289	SLU STR.	-9234,5	-552,4	-50900	-23050	636100	69,4
11	289	SLU STR.	2825,9	70,2	-40300	22870	-248900	-40,4
12	289	SLU STR.	-9225,8	-508,0	-39120	-20540	648000	71,7
13	289	SLU STR.	2815,0	-156,0	-52080	-23940	-260600	-31,6
14	289	SLU STR.	-9236,6	-734,2	-50900	-67360	636300	80,5
15	289	SLU STR.	2823,8	-111,6	-40300	-21440	-248800	-29,2
16	289	SLU STR.	-9227,8	-689,8	-39110	-64850	648100	82,9
17	289	SLU STR.	4736,8	31,8	-51340	5559,8	-404100	-54,9
18	289	SLU STR.	-15350	-931,9	-49360	-66800	1091000	132,0
19	289	SLU STR.	4745,5	76,2	-39550	8062,8	-392300	-52,5
20	289	SLU STR.	-15340	-887,5	-37580	-64290	1103000	134,3
21	289	SLU STR.	2823,8	-60,0	-51150	-1331,2	-261800	-37,1
22	289	SLU STR.	-9227,8	-638,2	-49970	-44740	635100	75,0
23	289	SLU STR.	2832,6	-15,6	-39360	1171,8	-249900	-34,7
24	289	SLU STR.	-9219,0	-593,8	-38180	-42240	647000	77,4
25	289	SLU STR.	3290,4	-65,0	-52280	-1561,8	-294000	-27,9
26	289	SLU STR.	-8761,2	-643,2	-51100	-44980	602900	84,2
27	289	SLU STR.	3299,2	-20,6	-40500	941,2	-282200	-25,5
28	289	SLU STR.	-8752,5	-598,8	-39310	-42470	614700	86,6
29	289	SLU STR.	3297,2	-63,4	-51650	-1503,0	-294600	-28,1
30	289	SLU STR.	-8754,4	-641,6	-50470	-44920	602300	84,0
31	289	SLU STR.	3306,0	-19,0	-39870	999,9	-282700	-25,7
32	289	SLU STR.	-8745,7	-597,2	-38690	-42410	614200	86,4
33	289	SLU STR.	3297,3	24,0	-51960	20250	-294100	-34,0
34	289	SLU STR.	-8754,4	-554,2	-50780	-23160	602800	78,1
35	289	SLU STR.	3306,0	68,3	-40180	22760	-282300	-31,6
36	289	SLU STR.	-8745,6	-509,9	-39000	-20660	614600	80,5
37	289	SLU STR.	3295,2	-157,8	-51960	-24060	-294000	-22,8
38	289	SLU STR.	-8756,4	-736,1	-50780	-67470	602900	89,3
39	289	SLU STR.	3304,0	-113,5	-40180	-21550	-282100	-20,5
40	289	SLU STR.	-8747,7	-691,7	-38990	-64970	614800	91,6
41	289	SLU STR.	5216,9	30,0	-51220	5446,8	-437500	-46,1
42	289	SLU STR.	-14870	-933,7	-49240	-66910	1057000	140,8
43	289	SLU STR.	5225,7	74,3	-39430	7949,7	-425600	-43,7
44	289	SLU STR.	-14860	-889,3	-37460	-64410	1069000	143,1
45	289	SLU STR.	3624,1	-63,1	-50950	-1519,6	-317400	-22,4
46	289	SLU STR.	-8427,5	-641,3	-49760	-44930	579500	89,7
47	289	SLU STR.	3632,9	-18,7	-39160	983,4	-305500	-20,1
48	289	SLU STR.	-8418,8	-596,9	-37980	-42430	591400	92
49	289	SLU STR.	3304,0	-61,8	-51030	-1444,2	-295100	-28,3
50	289	SLU STR.	-8747,7	-640,0	-49840	-44860	601800	83,8
51	289	SLU STR.	3312,7	-17,4	-39240	1058,7	-283300	-25,9
52	289	SLU STR.	-8738,9	-595,7	-38060	-42350	613600	86,2
53	289	SLU STR.	2570,1	-62,2	-52460	-1392,3	-244000	-41,1
54	289	SLU STR.	-9481,5	-640,4	-51280	-44810	652900	71,1
55	289	SLU STR.	2578,9	-17,8	-40680	1110,7	-232100	-38,7
56	289	SLU STR.	-9472,7	-596,0	-39490	-42300	664800	73,4
57	289	SLU STR.	2576,9	-60,6	-51840	-1333,5	-244500	-41,3

MANDATARIA

MANDANTE

PROGETTISTA INDICATO


**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 287 di
378

58	289	SLU STR.	-9474,7	-638,8	-50650	-44750	652400	70,9
59	289	SLU STR.	2585,7	-16,2	-40050	1169,5	-232700	-38,9
60	289	SLU STR.	-9465,9	-594,4	-38870	-42240	664200	73,2
61	289	SLU STR.	2577	26,8	-52150	20420	-244100	-47,1
62	289	SLU STR.	-9474,6	-551,5	-50960	-22990	652800	65,0
63	289	SLU STR.	2585,8	71,1	-40360	22930	-232200	-44,8
64	289	SLU STR.	-9465,8	-507,1	-39180	-20490	664700	67,3
65	289	SLU STR.	2574,9	-155,1	-52140	-23890	-243900	-36,0
66	289	SLU STR.	-9476,7	-733,3	-50960	-67300	653000	76,1
67	289	SLU STR.	2583,7	-110,7	-40360	-21380	-232100	-33,6
68	289	SLU STR.	-9467,9	-688,9	-39180	-64800	664800	78,5
69	289	SLU STR.	4496,7	32,8	-51400	5616,3	-387400	-59,2
70	289	SLU STR.	-15590	-930,9	-49430	-66740	1107000	127,6
71	289	SLU STR.	4505,4	77,1	-39610	8119,3	-375600	-56,9
72	289	SLU STR.	-15580	-886,6	-37640	-64240	1119000	129,9
73	289	SLU STR.	2583,7	-59,0	-51210	-1274,7	-245100	-41,5
74	289	SLU STR.	-9467,9	-637,2	-50030	-44690	651800	70,7
75	289	SLU STR.	2592,5	-14,7	-39430	1228,3	-233200	-39,1
76	289	SLU STR.	-9459,1	-592,9	-38240	-42190	663700	73,0
77	289	SLU STR.	2423,7	-58,4	-51250	-1237	-234000	-44,4
78	289	SLU STR.	-9628,0	-636,6	-50070	-44650	662900	67,7
79	289	SLU STR.	2432,4	-14,0	-39470	1266,0	-222100	-42,0
80	289	SLU STR.	-9619,2	-592,2	-38280	-42150	674800	70,1
81	289	SLU STR.	2804,6	1179,7	-52370	75180	-260000	-204,0
82	289	SLU STR.	-9247,0	601,5	-51190	31770	636900	-91,9
83	289	SLU STR.	2813,4	1224,1	-40590	77680	-248200	-201,7
84	289	SLU STR.	-9238,2	645,9	-39400	34270	648700	-89,6
85	289	SLU STR.	2811,4	1181,3	-51750	75240	-260600	-204,2
86	289	SLU STR.	-9240,2	603,1	-50560	31830	636300	-92,1
87	289	SLU STR.	2820,2	1225,7	-39960	77740	-248700	-201,9
88	289	SLU STR.	-9231,4	647,5	-38780	34330	648200	-89,8
89	289	SLU STR.	2811,5	1268,7	-52050	97000	-260100	-210,1
90	289	SLU STR.	-9240,1	690,5	-50870	53580	636800	-98,0
91	289	SLU STR.	2820,3	1313,0	-40270	99500	-248300	-207,7
92	289	SLU STR.	-9231,3	734,8	-39090	56090	648600	-95,6
93	289	SLU STR.	2809,4	1086,9	-52050	52690	-260000	-198,9
94	289	SLU STR.	-9242,2	508,7	-50870	9272,8	636900	-86,8
95	289	SLU STR.	2818,2	1131,2	-40270	55190	-248100	-196,6
96	289	SLU STR.	-9233,4	553,0	-39080	11780	648800	-84,5
97	289	SLU STR.	4731,2	1274,7	-51310	82190	-403500	-222,2
98	289	SLU STR.	-15350	311,0	-49330	9833,0	1091000	-35,4
99	289	SLU STR.	4739,9	1319,0	-39520	84690	-391600	-219,8
100	289	SLU STR.	-15350	355,4	-37550	12340	1103000	-33,0
101	289	SLU STR.	2818,2	1182,9	-51120	75300	-261100	-204,4
102	289	SLU STR.	-9233,4	604,7	-49940	31880	635800	-92,3
103	289	SLU STR.	2827,0	1227,3	-39330	77800	-249300	-202,1
104	289	SLU STR.	-9224,6	649,1	-38150	34390	647600	-90,0
105	289	SLU STR.	2814,5	2011,4	-51100	126400	-260700	-316,0
106	289	SLU STR.	-9237,1	1433,2	-49910	82970	636200	-203,9
107	289	SLU STR.	2823,3	2055,8	-39310	128900	-248800	-313,6
108	289	SLU STR.	-9228,4	1477,6	-38130	85470	648100	-201,5
109	289	SLU STR.	2813,2	-1308,1	-52430	-78290	-261100	130,2
110	289	SLU STR.	-9238,5	-1886,3	-51250	-121700	635800	242,3
111	289	SLU STR.	2821,9	-1263,7	-40650	-75790	-249200	132,6
112	289	SLU STR.	-9229,7	-1841,9	-39470	-119200	647700	244,7
113	289	SLU STR.	2819,9	-1306,5	-51810	-78240	-261600	130,0
114	289	SLU STR.	-9231,7	-1884,7	-50620	-121600	635300	242,1
115	289	SLU STR.	2828,7	-1262,2	-40020	-75730	-249800	132,4
116	289	SLU STR.	-9222,9	-1840,4	-38840	-119100	647100	244,5
117	289	SLU STR.	2820,0	-1219,2	-52120	-56480	-261200	124,2

118	289	SLU STR.	-9231,6	-1797,4	-50930	-99890	635700	236,3
119	289	SLU STR.	2828,8	-1174,8	-40330	-53970	-249300	126,5
120	289	SLU STR.	-9222,8	-1753	-39150	-97390	647600	238,6
121	289	SLU STR.	2817,9	-1401,0	-52120	-100800	-261000	135,3
122	289	SLU STR.	-9233,7	-1979,2	-50930	-144200	635900	247,4
123	289	SLU STR.	2826,7	-1356,6	-40330	-98280	-249200	137,6
124	289	SLU STR.	-9224,9	-1934,8	-39150	-141700	647700	249,7
125	289	SLU STR.	4739,7	-1213,2	-51370	-71290	-404500	112,0
126	289	SLU STR.	-15350	-2176,8	-49400	-143600	1090000	298,9
127	289	SLU STR.	4748,5	-1168,8	-39580	-68780	-392700	114,4
128	289	SLU STR.	-15340	-2132,5	-37610	-141100	1102000	301,2
129	289	SLU STR.	2826,7	-1305,0	-51180	-78180	-262200	129,8
130	289	SLU STR.	-9224,9	-1883,2	-50000	-121600	634700	241,9
131	289	SLU STR.	2835,5	-1260,6	-39400	-75670	-250300	132,2
132	289	SLU STR.	-9216,1	-1838,8	-38210	-119100	646600	244,3
133	289	SLU STR.	2828,7	-2134,9	-51200	-129400	-262400	241,1
134	289	SLU STR.	-9222,9	-2713,1	-50020	-172800	634500	353,2
135	289	SLU STR.	2837,5	-2090,6	-39420	-126900	-250600	243,4
136	289	SLU STR.	-9214,2	-2668,8	-38230	-170300	646300	355,5
137	289	SLE Rare	1876,8	-57,7	-39120	-1800,9	-179500	-25,5
138	289	SLE Rare	-6157,7	-443,2	-38330	-30740	418400	49,3
139	289	SLE Rare	1881,3	-56,7	-38700	-1761,7	-179900	-25,6
140	289	SLE Rare	-6153,1	-442,1	-37910	-30700	418000	49,1
141	289	SLE Rare	1881,3	1,6	-38910	12740	-179600	-29,5
142	289	SLE Rare	-6153,1	-383,9	-38120	-16200	418300	45,2
143	289	SLE Rare	1879,9	-119,6	-38910	-16800	-179500	-22,1
144	289	SLE Rare	-6154,5	-505,1	-38120	-45740	418500	52,6
145	289	SLE Rare	3161,1	5,6	-38410	2871,5	-275200	-37,6
146	289	SLE Rare	-10230	-636,9	-37090	-45370	721400	87,0
147	289	SLE Rare	1885,8	-55,6	-38280	-1722,5	-180200	-25,7
148	289	SLE Rare	-6148,6	-441,1	-37500	-30660	417700	49,0
149	289	SLE Rare	2196,9	-58,9	-39040	-1876,2	-201800	-19,6
150	289	SLE Rare	-5837,6	-444,4	-38250	-30820	396200	55,1
151	289	SLE Rare	2201,4	-57,9	-38620	-1837,1	-202100	-19,8
152	289	SLE Rare	-5833,0	-443,4	-37830	-30780	395800	55,0
153	289	SLE Rare	2201,4	0,3	-38830	12670	-201800	-23,7
154	289	SLE Rare	-5833,0	-385,1	-38040	-16270	396100	51,1
155	289	SLE Rare	2200,1	-120,9	-38830	-16870	-201700	-16,2
156	289	SLE Rare	-5834,4	-506,3	-38040	-45810	396200	58,5
157	289	SLE Rare	3481,2	4,3	-38330	2796,2	-297400	-31,8
158	289	SLE Rare	-9909,5	-638,1	-37010	-45440	699200	92,8
159	289	SLE Rare	2419,3	-57,7	-38150	-1848,1	-217300	-16,0
160	289	SLE Rare	-5615,1	-443,1	-37360	-30790	380600	58,7
161	289	SLE Rare	2205,9	-56,8	-38200	-1797,9	-202500	-19,9
162	289	SLE Rare	-5828,5	-442,3	-37410	-30740	395400	54,8
163	289	SLE Rare	1716,7	-57,1	-39160	-1763,2	-168400	-28,4
164	289	SLE Rare	-6317,7	-442,6	-38370	-30710	429500	46,3
165	289	SLE Rare	1721,2	-56,0	-38740	-1724,0	-168800	-28,5
166	289	SLE Rare	-6313,2	-441,5	-37950	-30670	429200	46,2
167	289	SLE Rare	1721,3	2,2	-38950	12780	-168500	-32,5
168	289	SLE Rare	-6313,1	-383,3	-38160	-16160	429500	42,3
169	289	SLE Rare	1719,9	-119	-38950	-16760	-168400	-25,0
170	289	SLE Rare	-6314,5	-504,5	-38160	-45700	429600	49,7
171	289	SLE Rare	3001,1	6,2	-38450	2909,2	-264000	-40,5
172	289	SLE Rare	-10390	-636,3	-37130	-45330	732500	84,0
173	289	SLE Rare	1725,7	-55,0	-38320	-1684,8	-169100	-28,7
174	289	SLE Rare	-6308,7	-440,5	-37540	-30630	428800	46,1
175	289	SLE Rare	1619,0	-54,6	-38350	-1659,7	-161700	-30,6
176	289	SLE Rare	-6415,4	-440,0	-37560	-30600	436200	44,1
177	289	SLE Rare	1873,0	770,9	-39100	49280	-179100	-137,0

178	289	SLE Rare	-6161,4	385,4	-38310	20340	418800	-62,3
179	289	SLE Rare	1877,6	771,9	-38680	49320	-179500	-137,2
180	289	SLE Rare	-6156,9	386,4	-37890	20380	418500	-62,4
181	289	SLE Rare	1877,6	830,1	-38890	63830	-179200	-141,1
182	289	SLE Rare	-6156,8	444,7	-38100	34890	418800	-66,4
183	289	SLE Rare	1876,2	708,9	-38890	34290	-179100	-133,7
184	289	SLE Rare	-6158,2	323,5	-38100	5346,8	418900	-58,9
185	289	SLE Rare	3157,4	834,1	-38390	53960	-274700	-149,2
186	289	SLE Rare	-10230	191,7	-37070	5720,3	721800	-24,6
187	289	SLE Rare	1882,1	773,0	-38260	49360	-179800	-137,3
188	289	SLE Rare	-6152,3	387,5	-37470	20420	418100	-62,6
189	289	SLE Rare	1879,6	1325,3	-38250	83420	-179500	-211,7
190	289	SLE Rare	-6154,8	939,9	-37460	54480	418400	-136,9
191	289	SLE Rare	1878,7	-887,7	-39140	-53030	-179800	85,8
192	289	SLE Rare	-6155,7	-1273,2	-38350	-81970	418100	160,5
193	289	SLE Rare	1883,2	-886,7	-38720	-52990	-180200	85,7
194	289	SLE Rare	-6151,2	-1272,1	-37930	-81930	417800	160,4
195	289	SLE Rare	1883,3	-828,4	-38930	-38490	-179900	81,7
196	289	SLE Rare	-6151,1	-1213,9	-38140	-67430	418100	156,5
197	289	SLE Rare	1881,9	-949,6	-38930	-68030	-179800	89,2
198	289	SLE Rare	-6152,5	-1335,1	-38140	-96970	418200	163,9
199	289	SLE Rare	3163,1	-824,4	-38430	-48360	-275400	73,7
200	289	SLE Rare	-10230	-1466,9	-37120	-96600	721100	198,2
201	289	SLE Rare	1887,8	-885,6	-38310	-52950	-180500	85,5
202	289	SLE Rare	-6146,7	-1271,1	-37520	-81890	417400	160,3
203	289	SLE Rare	1889,1	-1438,9	-38320	-87110	-180700	159,7
204	289	SLE Rare	-6145,4	-1824,4	-37530	-116000	417200	234,4
205	289	SLE Freq.	-8,9	-137,2	-36020	-7762,9	-40130	-7,9
206	289	SLE Freq.	-13,4	-138,3	-36430	-7802,1	-39770	-7,8
207	289	SLE Freq.	-11,8	-99,1	-36430	1880,9	-39690	-10,4
208	289	SLE Freq.	-12,8	-179,9	-36430	-17810	-39620	-5,5
209	289	SLE Freq.	1585,3	-60,7	-36170	-2020,4	-158800	-22,7
210	289	SLE Freq.	-5110,1	-382,0	-35520	-26140	339500	39,6
211	289	SLE Freq.	97,9	-137,6	-35990	-7788,0	-47540	-6,0
212	289	SLE Freq.	-62,2	-137,0	-36030	-7750,4	-36420	-8,9
213	289	SLE Freq.	-10,1	139,0	-36010	9265,7	-39980	-45,1
214	289	SLE Freq.	-8,2	-413,9	-36020	-24840	-40220	29,2
215	289	SLE Quasi P.	-8,9	-137,2	-36020	-7762,9	-40130	-7,9
216	289	SLU A1 sism.	6864,1	1170,1	-31000	24410	-494000	1482,6
217	289	SLU A1 sism.	6985,8	-3331,4	-31300	-171100	-507300	2624,1
218	289	SLU A1 sism.	-7003,5	3056,9	-40730	155600	427100	-2639,9
219	289	SLU A1 sism.	-6881,8	-1444,5	-41030	-39940	413700	-1498,4
220	289	SLU A1 sism.	6869,4	1493	-31000	51420	-494600	1036,5
221	289	SLU A1 sism.	6980,4	-3654,3	-31300	-198100	-506700	3070,2
222	289	SLU A1 sism.	-6998,1	3379,9	-40730	182600	426400	-3086,0
223	289	SLU A1 sism.	-6887,2	-1767,5	-41030	-66940	414400	-1052,3
224	289	SLU A1 sism.	6857,9	2960,2	-30940	173600	-493000	-1822,3
225	289	SLU A1 sism.	6979,6	-1541,3	-31240	-21950	-506300	-680,8
226	289	SLU A1 sism.	-6997,3	1266,8	-40800	6429,0	426100	665,0
227	289	SLU A1 sism.	-6875,6	-3234,7	-41090	-189100	412700	1806,5
228	289	SLU A1 sism.	6863,2	3283,1	-30940	200600	-493600	-2268,4
229	289	SLU A1 sism.	6974,2	-1864,2	-31240	-48960	-505700	-234,7
230	289	SLU A1 sism.	-6991,9	1589,7	-40800	33430	425400	218,9
231	289	SLU A1 sism.	-6881,0	-3557,6	-41090	-216100	413400	2252,6
232	289	SLU A1 sism.	1868,5	7082,2	-34060	298400	-156000	-1292,0
233	289	SLU A1 sism.	2274,1	-7922,7	-35050	-353300	-200600	2512,9
234	289	SLU A1 sism.	-2291,8	7648,2	-36980	337800	120300	-2528,7
235	289	SLU A1 sism.	-1886,2	-7356,6	-37970	-314000	75760	1276,2
236	289	SLU A1 sism.	1866,6	7619,2	-34040	343200	-155700	-2283,5
237	289	SLU A1 sism.	2272,3	-7385,6	-35030	-308600	-200300	1521,5

238	289	SLU A1 sism.	-2290,0	7111,2	-37000	293000	120000	-1537,3
239	289	SLU A1 sism.	-1884,3	-7893,7	-37990	-358700	75460	2267,7
240	289	SLU A1 sism.	1886,3	8158,6	-34060	388400	-158200	-2778,9
241	289	SLU A1 sism.	2256,2	-8999,1	-35050	-443300	-198400	3999,9
242	289	SLU A1 sism.	-2273,9	8724,6	-36980	427800	118200	-4015,7
243	289	SLU A1 sism.	-1904,0	-8433,0	-37970	-404000	77920	2763,1
244	289	SLU A1 sism.	1884,5	8695,6	-34040	433200	-157900	-3770,4
245	289	SLU A1 sism.	2254,4	-8462,1	-35040	-398600	-198100	3008,4
246	289	SLU A1 sism.	-2272,1	8187,6	-37000	383000	117800	-3024,2
247	289	SLU A1 sism.	-1902,2	-8970,1	-37990	-448700	77610	3754,6

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 10 Ø 20 = 31,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 10, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
72	289	0	-37640,3	15605,8	1121090	0,354	0,157	0,410	Ok
53	289	0	-52462,6	2570,9	244002,4	0,073	0,219	0,068	Ok
70	289	0	-49425,1	15617,1	1109402	0,335	0,206	0,410	Ok
72	289	-50	-37597,6	9734,8	395453,5	0,125	0,157	0,256	Ok
53	289	-50	-52403,2	1795,0	121890,9	0,036	0,219	0,047	Ok
237	289	-100	-34882,0	1544,1	220229,9	0,070	0,146	0,041	Ok
53	289	-100	-52236,4	1029,4	32266,8	0,010	0,218	0,027	Ok
72	289	-100	-37478	4721,3	91287,7	0,029	0,157	0,124	Ok
72	289	-150	-37317,5	954,5	327350,7	0,104	0,156	0,025	Ok
53	289	-150	-52012,7	370,5	19569,0	0,006	0,217	0,010	Ok
72	289	-200	-37189,6	889,8	375076	0,119	0,155	0,023	Ok
53	289	-200	-51834,4	32,0	37941,6	0,011	0,217	0,001	Ok
247	289	-200	-37538,0	921,3	302557,8	0,096	0,157	0,024	Ok
72	289	-250	-37130,1	1048,2	330583,5	0,105	0,155	0,028	Ok
53	289	-250	-51751,4	89,7	36383,4	0,011	0,216	0,002	Ok
70	289	-250	-48755,1	1066,5	334642,4	0,101	0,204	0,028	Ok
72	289	-300	-37102,0	1037,6	278175,2	0,088	0,155	0,027	Ok
53	289	-300	-51712,4	95,8	31900,2	0,010	0,216	0,003	Ok
70	289	-300	-48718,3	1054,2	281318,7	0,085	0,204	0,028	Ok
72	289	-350	-37069,5	996,8	226297,4	0,072	0,155	0,026	Ok
53	289	-350	-51667,0	97,2	27113,5	0,008	0,216	0,003	Ok
70	289	-350	-48675,6	1011,7	228608,7	0,069	0,203	0,027	Ok
72	289	-400	-37032,4	937,6	176459,2	0,056	0,155	0,025	Ok
53	289	-400	-51615,4	95,3	22255,3	0,007	0,216	0,003	Ok
70	289	-400	-48626,9	950,7	178026,2	0,054	0,203	0,025	Ok
72	289	-450	-36986,6	852,7	129581,7	0,041	0,155	0,022	Ok
53	289	-450	-51551,5	90,3	17491,3	0,005	0,215	0,002	Ok
70	289	-450	-48566,8	863,9	130489,8	0,039	0,203	0,023	Ok
72	289	-500	-36927,8	697,7	86948,5	0,028	0,154	0,018	Ok
53	289	-500	-51469,6	78,7	12978,4	0,004	0,215	0,002	Ok
70	289	-500	-48489,6	705,9	87295,6	0,026	0,203	0,019	Ok
72	289	-550	-36860,5	535,3	52062,7	0,017	0,154	0,014	Ok

53	289	-550	-51375,8	64,7	9046,2	0,003	0,215	0,002	Ok
70	289	-550	-48401,2	540,6	52001,6	0,016	0,202	0,014	Ok
72	289	-600	-36789,2	390,3	25299,0	0,008	0,154	0,010	Ok
53	289	-600	-51276,3	51,0	5813,0	0,002	0,214	0,001	Ok
70	289	-600	-48307,5	393,4	24970,7	0,008	0,202	0,010	Ok
237	289	-650	-34170,8	151,7	6343,0	0,002	0,143	0,004	Ok
53	289	-650	-51171,3	38,3	3268,4	0,001	0,214	0,001	Ok
70	289	-650	-48208,6	268,3	5301,9	0,002	0,201	0,007	Ok
237	289	-700	-34097	83,0	13303	0,004	0,142	0,002	Ok
53	289	-700	-51060,9	27,3	1362,6	0,000	0,213	0,001	Ok
70	289	-700	-48104,5	166,6	8113,0	0,002	0,201	0,004	Ok
241	289	-750	-34040,5	41,6	18091,4	0,006	0,142	0,001	Ok
53	289	-750	-50945,2	18,0	198,5	0,000	0,213	0,000	Ok
72	289	-750	-36551,6	88,2	15882,7	0,005	0,153	0,002	Ok
72	289	-800	-36464,9	30,1	20291,3	0,006	0,152	0,001	Ok
53	289	-800	-50824,4	10,6	933,4	0,000	0,212	0,000	Ok
72	289	-850	-36374,7	10,6	21794,6	0,007	0,152	0,000	Ok
53	289	-850	-50698,6	5,0	1455,0	0,000	0,212	0,000	Ok
235	289	-850	-36694,9	30,4	18662,7	0,006	0,153	0,001	Ok
72	289	-900	-36281,0	36,9	21264,3	0,007	0,152	0,001	Ok
53	289	-900	-50568,1	1,0	1699,4	0,001	0,211	0,000	Ok
247	289	-900	-36621,0	45,5	18718,4	0,006	0,153	0,001	Ok
72	289	-950	-36184,0	51,7	19420,7	0,006	0,151	0,001	Ok
53	289	-950	-50432,9	2,0	1739,6	0,001	0,211	0,000	Ok
70	289	-950	-47512,9	53,2	19743,4	0,006	0,198	0,001	Ok
72	289	-1000	-36083,8	58,0	16833,9	0,005	0,151	0,002	Ok
53	289	-1000	-50293,2	3,7	1640,3	0,000	0,210	0,000	Ok
70	289	-1000	-47381,3	59,3	17085,6	0,005	0,198	0,002	Ok
72	289	-1050	-35980,4	58,0	13935,1	0,004	0,150	0,002	Ok
53	289	-1050	-50149,1	4,6	1454,3	0,000	0,210	0,000	Ok
70	289	-1050	-47245,5	59,1	14123,0	0,004	0,197	0,002	Ok
72	289	-1100	-35874,0	53,9	11033,6	0,004	0,150	0,001	Ok
53	289	-1100	-50000,8	4,9	1222,9	0,000	0,209	0,000	Ok
70	289	-1100	-47105,8	54,8	11167,2	0,003	0,197	0,001	Ok
72	289	-1150	-35764,7	47,3	8337,2	0,003	0,149	0,001	Ok
53	289	-1150	-49848,4	4,8	977,1	0,000	0,208	0,000	Ok
70	289	-1150	-46962,2	48,0	8427,0	0,003	0,196	0,001	Ok
72	289	-1200	-35652,5	39,4	5972,7	0,002	0,149	0,001	Ok
53	289	-1200	-49692,1	4,3	738,8	0,000	0,208	0,000	Ok
70	289	-1200	-46815,0	39,8	6028,8	0,002	0,196	0,001	Ok
72	289	-1250	-35537,6	31,0	4005,1	0,001	0,148	0,001	Ok
53	289	-1250	-49532,0	3,7	523,0	0,000	0,207	0,000	Ok
70	289	-1250	-46664,1	31,3	4036,9	0,001	0,195	0,001	Ok
72	289	-1300	-35420,2	22,9	2454,9	0,001	0,148	0,001	Ok
53	289	-1300	-49368,2	2,9	339,0	0,000	0,206	0,000	Ok
70	289	-1300	-46509,9	23,0	2470,5	0,001	0,194	0,001	Ok
72	289	-1350	-35300,2	15,3	1312,4	0,000	0,147	0,000	Ok
53	289	-1350	-49200,9	2,1	192,3	0,000	0,206	0,000	Ok
70	289	-1350	-46352,3	15,4	1318,4	0,000	0,194	0,000	Ok
72	289	-1400	-35177,7	8,5	549,0	0,000	0,147	0,000	Ok
53	289	-1400	-49030,3	1,3	86,1	0,000	0,205	0,000	Ok
70	289	-1400	-46191,5	8,5	550,3	0,000	0,193	0,000	Ok
72	289	-1450	-35053,0	2,5	126,0	0,000	0,146	0,000	Ok
53	289	-1450	-48856,5	0,4	21,7	0,000	0,204	0,000	Ok
228	289	-1500	-28812,1	1,2	0	0	0,120	0,000	Ok
53	289	-1500	-48856,5	0,4	0	0	0,204	0,000	Ok
72	289	-1500	-35053,0	2,5	0	0	0,146	0,000	Ok

Sezioni maggiormente sollecitate:

PL.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V

MANDATARIA

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PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 292 di
378

			cm	daN	daN	daN cm			
289	72	289	0	-37640,3	15605,8	1121090	0,354	0,157	0,410
289	53	289	0	-52462,6	2570,9	244002,4	0,073	0,219	0,068
289	70	289	0	-49425,1	15617,1	1109402	0,335	0,206	0,410

S/Su massime:

Ver. N/M = 0,354 < 1 Ok

Ver. (25) = 0,219 < 1 Ok

Ver. V = 0,410 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
172	289	0	-37134,8	733921,9	-565,6	-47,6	Ok
172	289	-50	-37092,8	250529,2	-280,7	-21,1	Ok
200	289	-100	-36955,5	72331	-200,7	-14,1	Ok
172	289	-150	-36816,4	226412,5	-268,7	-20,0	Ok
172	289	-200	-36690,2	255758,5	-281,2	-21,1	Ok
172	289	-250	-36631,5	224729,5	-267,1	-19,9	Ok
172	289	-300	-36603,8	188801,3	-251,0	-18,5	Ok
172	289	-350	-36571,7	153318,8	-235,0	-17,1	Ok
172	289	-400	-36535,1	119292,2	-219,7	-15,8	Ok
172	289	-450	-36489,9	87332,8	-205,3	-14,5	Ok
172	289	-500	-36432,0	58309,3	-192,1	-13,3	Ok
172	289	-550	-36365,6	34616,3	-181,2	-12,4	Ok
191	289	-600	-38255,5	4438,3	-176,4	-11,8	Ok
163	289	-650	-38196,0	2394,9	-175,2	-11,7	Ok
163	289	-700	-38113,6	1148,5	-173,7	-11,6	Ok
164	289	-750	-37260,9	7514,2	-173,2	-11,6	Ok
163	289	-750	-38027,2	282,3	-173,3	-11,6	Ok
204	289	-750	-36444,9	7738,7	-169,6	-11,4	Ok
164	289	-800	-37172,5	9231,7	-173,6	-11,7	Ok
164	289	-850	-37080,6	9725,5	-173,4	-11,6	Ok
164	289	-900	-36985,1	9372,5	-172,8	-11,6	Ok
164	289	-950	-36886,2	8482,3	-171,9	-11,5	Ok
164	289	-1000	-36784,0	7297,8	-170,9	-11,5	Ok
163	289	-1000	-37540,5	994,1	-171,1	-11,4	Ok
204	289	-1000	-35978,5	7443,1	-167,3	-11,2	Ok
164	289	-1050	-36678,6	6001,3	-169,9	-11,4	Ok
163	289	-1050	-37433,0	895,9	-170,6	-11,4	Ok
204	289	-1050	-35875,4	6116,2	-166,3	-11,1	Ok
163	289	-1100	-37322,2	763,4	-170,1	-11,3	Ok
163	289	-1150	-37208,5	617,0	-169,6	-11,3	Ok
163	289	-1200	-37091,8	471,5	-169,1	-11,3	Ok
163	289	-1250	-36972,3	337,0	-168,5	-11,2	Ok
163	289	-1300	-36850,1	220,5	-168,0	-11,2	Ok
163	289	-1350	-36725,2	126,3	-167,4	-11,2	Ok
163	289	-1400	-36597,9	57,1	-166,8	-11,1	Ok
163	289	-1450	-36468,1	14,6	-166,2	-11,1	Ok
163	289	-1500	-36468,1	0	-166,2	-11,1	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
289	172	289	0	-37134,8	733921,9	-565,6	-47,6

Valori massimi SLE condizioni rare:

Ten.massima CLS = 47,6 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

MANDATARIA

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PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 293 di
378

Ten.massima acciaio = -565,6 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	289	0	-35515,8	340518,9	0	Ok
210	289	-50	-35475,6	103463,5	0	Ok
210	289	-100	-35362,7	51915,5	0	Ok
210	289	-150	-35211,3	123572,9	0	Ok
210	289	-200	-35090,5	134286,7	0	Ok
210	289	-250	-35034,4	116981,2	0	Ok
210	289	-300	-35007,9	97835,5	0	Ok
210	289	-350	-34977,2	79046,9	0	Ok
210	289	-400	-34942,2	61118,6	0	Ok
210	289	-450	-34899,0	44346,4	0	Ok
210	289	-500	-34843,5	29177,2	0	Ok
210	289	-550	-34780,1	16876,7	0	Ok
209	289	-600	-35355,5	3814,8	0	Ok
209	289	-650	-35283,1	2338,3	0	Ok
206	289	-650	-35537,6	1583,1	0	Ok
214	289	-650	-35137,2	1588,2	0	Ok
206	289	-700	-35460,9	1795,8	0	Ok
206	289	-750	-35380,5	1816,8	0	Ok
210	289	-800	-34406,8	7793,6	0	Ok
206	289	-800	-35296,6	1706,7	0	Ok
214	289	-800	-34899,0	1837,1	0	Ok
210	289	-850	-34321,6	8155,3	0	Ok
206	289	-850	-35209,3	1516,6	0	Ok
214	289	-850	-34812,7	1668,5	0	Ok
210	289	-900	-34233,3	7824,9	0	Ok
206	289	-900	-35118,7	1286,6	0	Ok
214	289	-900	-34723,0	1445,1	0	Ok
210	289	-950	-34141,7	7058,4	0	Ok
206	289	-950	-35024,8	1046,5	0	Ok
214	289	-950	-34630,2	1199,9	0	Ok
206	289	-1000	-34927,7	816,8	0	Ok
206	289	-1050	-34827,7	610,7	0	Ok
206	289	-1100	-34724,7	435,3	0	Ok
206	289	-1150	-34618,8	293,4	0	Ok
206	289	-1200	-34510,3	184,3	0	Ok
206	289	-1250	-34399,1	105,5	0	Ok
206	289	-1300	-34285,4	52,9	0	Ok
206	289	-1350	-34169,2	21,5	0	Ok
206	289	-1400	-34050,7	6,1	0	Ok
206	289	-1450	-33929,9	1,2	0	Ok
206	289	-1500	-33929,9	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
289	210	289	0	-35515,8	340518,9	0

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 294 di
378

215	289	0	-36016,8	40871,3	-12,5	0	Ok
215	289	-50	-35976,0	38775,3	-12,4	0	Ok
215	289	-100	-35861,6	32540,9	-12,2	0	Ok
215	289	-150	-35708	24284,9	-11,8	0	Ok
215	289	-200	-35585,6	17151,3	-11,5	0	Ok
215	289	-250	-35528,6	13125,4	-11,3	0	Ok
215	289	-300	-35501,8	10180,6	-11,2	0	Ok
215	289	-350	-35470,6	7505,0	-11,1	0	Ok
215	289	-400	-35435,2	5115,1	-11,0	0	Ok
215	289	-450	-35391,4	3010,7	-10,9	0	Ok
215	289	-500	-35335,1	1268,8	-10,7	0	Ok
215	289	-550	-35270,7	529,8	-10,7	0	Ok
215	289	-600	-35202,4	1128,2	-10,7	0	Ok
215	289	-650	-35130,3	1586,1	-10,7	0	Ok
215	289	-700	-35054,5	1795,0	-10,7	0	Ok
215	289	-750	-34975,1	1813,4	-10,6	0	Ok
215	289	-800	-34892,2	1701,8	-10,6	0	Ok
215	289	-850	-34805,8	1511,1	-10,6	0	Ok
215	289	-900	-34716,2	1281,1	-10,6	0	Ok
215	289	-950	-34623,4	1041,4	-10,5	0	Ok
215	289	-1000	-34527,5	812,3	-10,5	0	Ok
215	289	-1050	-34428,6	606,9	-10,5	0	Ok
215	289	-1100	-34326,7	432,3	-10,4	0	Ok
215	289	-1150	-34222,1	291,0	-10,4	0	Ok
215	289	-1200	-34114,8	182,7	-10,4	0	Ok
215	289	-1250	-34004,9	104,4	-10,3	0	Ok
215	289	-1300	-33892,5	52,2	-10,3	0	Ok
215	289	-1350	-33777,6	21,2	-10,3	0	Ok
215	289	-1400	-33660,5	6,0	-10,2	0	Ok
215	289	-1450	-33541,1	1,2	-10,2	0	Ok
215	289	-1500	-33541,1	0	-10,2	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
289	215	289	0	-36016,8	40871,3	-12,5	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 12,5 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 350

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	350	SLU STR.	-3098,1	-112,0	-47980	-6354,0	183000	-65,9
2	350	SLU STR.	9953,3	-610,8	-46340	-42730	-801700	40,0
3	350	SLU STR.	-3101,6	-60,9	-37290	-3134,0	195400	-56,7
4	350	SLU STR.	9949,8	-559,7	-35640	-39510	-789300	49,2
5	350	SLU STR.	-3095,9	-110,1	-47350	-6246,2	182900	-65,8
6	350	SLU STR.	9955,5	-608,9	-45710	-42620	-801800	40,1
7	350	SLU STR.	-3099,4	-59,0	-36660	-3026,1	195400	-56,5
8	350	SLU STR.	9952,0	-557,8	-35020	-39400	-789300	49,3
9	350	SLU STR.	-3095,1	-18,0	-47700	16210	183200	-50,4
10	350	SLU STR.	9956,3	-516,8	-46060	-20170	-801500	55,5
11	350	SLU STR.	-3098,5	33,1	-37010	19430	195700	-41,2

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 295 di
378

12	350	SLU STR.	9952,9	-465,7	-35370	-16950	-789000	64,7
13	350	SLU STR.	-3096,0	-209,9	-47700	-29560	183300	-82,4
14	350	SLU STR.	9955,3	-708,7	-46060	-65930	-801400	23,5
15	350	SLU STR.	-3099,5	-158,8	-37000	-26340	195700	-73,2
16	350	SLU STR.	9951,9	-657,6	-35360	-62710	-789000	32,7
17	350	SLU STR.	-5165,4	-29,0	-46990	-364,3	339100	-82,4
18	350	SLU STR.	16590	-860,3	-44260	-60990	-1302000	94,0
19	350	SLU STR.	-5168,8	22,1	-36300	2855,7	351600	-73,2
20	350	SLU STR.	16580	-809,2	-33560	-57770	-1290000	103,2
21	350	SLU STR.	-3093,7	-108,2	-46730	-6138,3	182800	-65,6
22	350	SLU STR.	9957,7	-606,9	-45090	-42510	-801900	40,3
23	350	SLU STR.	-3097,2	-57,1	-36040	-2918,3	195300	-56,4
24	350	SLU STR.	9954,2	-555,9	-34400	-39290	-789400	49,5
25	350	SLU STR.	-2622,3	-109,5	-48100	-6189,2	149900	-57,0
26	350	SLU STR.	10430	-608,3	-46460	-42570	-834800	48,8
27	350	SLU STR.	-2625,8	-58,5	-37410	-2969,2	162400	-47,8
28	350	SLU STR.	10430	-557,2	-35770	-39350	-822300	58,1
29	350	SLU STR.	-2620,1	-107,6	-47480	-6081,4	149800	-56,9
30	350	SLU STR.	10430	-606,4	-45840	-42460	-834900	49
31	350	SLU STR.	-2623,6	-56,5	-36790	-2861,3	162300	-47,7
32	350	SLU STR.	10430	-555,3	-35150	-39240	-822400	58,2
33	350	SLU STR.	-2619,3	-15,6	-47820	16370	150100	-41,5
34	350	SLU STR.	10430	-514,3	-46180	-20000	-834600	64,4
35	350	SLU STR.	-2622,7	35,6	-37130	19590	162600	-32,3
36	350	SLU STR.	10430	-463,2	-35490	-16780	-822100	73,6
37	350	SLU STR.	-2620,3	-207,4	-47820	-29390	150200	-73,5
38	350	SLU STR.	10430	-706,2	-46180	-65770	-834500	32,4
39	350	SLU STR.	-2623,7	-156,3	-37130	-26170	162600	-64,3
40	350	SLU STR.	10430	-655,1	-35490	-62550	-822100	41,6
41	350	SLU STR.	-4689,6	-26,5	-47120	-199,5	306000	-73,5
42	350	SLU STR.	17060	-857,8	-44380	-60830	-1335000	102,9
43	350	SLU STR.	-4693,0	24,6	-36420	3020,6	318500	-64,3
44	350	SLU STR.	17060	-806,7	-33690	-57610	-1323000	112,1
45	350	SLU STR.	-2300,7	-104,0	-46940	-5863,7	127700	-50,8
46	350	SLU STR.	10750	-602,8	-45300	-42240	-857000	55,1
47	350	SLU STR.	-2304,2	-52,9	-36250	-2643,6	140100	-41,6
48	350	SLU STR.	10750	-551,7	-34610	-39020	-844600	64,3
49	350	SLU STR.	-2617,9	-105,7	-46860	-5973,5	149700	-56,7
50	350	SLU STR.	10430	-604,5	-45220	-42350	-835000	49,2
51	350	SLU STR.	-2621,4	-54,6	-36160	-2753,5	162200	-47,5
52	350	SLU STR.	10430	-553,4	-34520	-39130	-822500	58,4
53	350	SLU STR.	-3336,0	-113,3	-47920	-6436,4	199600	-70,3
54	350	SLU STR.	9715,4	-612,0	-46270	-42810	-785100	35,5
55	350	SLU STR.	-3339,5	-62,2	-37220	-3216,4	212000	-61,1
56	350	SLU STR.	9711,9	-560,9	-35580	-39590	-772700	44,7
57	350	SLU STR.	-3333,8	-111,4	-47290	-6328,6	199500	-70,2
58	350	SLU STR.	9717,6	-610,1	-45650	-42710	-785200	35,7
59	350	SLU STR.	-3337,3	-60,3	-36600	-3108,6	211900	-61,0
60	350	SLU STR.	9714,1	-559,0	-34960	-39490	-772800	44,9
61	350	SLU STR.	-3332,9	-19,3	-47640	16120	199800	-54,8
62	350	SLU STR.	9718,4	-518,0	-46000	-20250	-784900	51,0
63	350	SLU STR.	-3336,4	31,8	-36940	19340	212200	-45,6
64	350	SLU STR.	9715	-466,9	-35300	-17030	-772500	60,2
65	350	SLU STR.	-3333,9	-211,2	-47630	-29640	199800	-86,8
66	350	SLU STR.	9717,4	-709,9	-45990	-66020	-784900	19,0
67	350	SLU STR.	-3337,4	-160,1	-36940	-26420	212300	-77,6
68	350	SLU STR.	9714	-658,8	-35300	-62800	-772400	28,3
69	350	SLU STR.	-5403,3	-30,3	-46930	-446,7	355700	-86,8
70	350	SLU STR.	16350	-861,5	-44190	-61070	-1285000	89,6
71	350	SLU STR.	-5406,7	20,8	-36240	2773,3	368100	-77,6

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 296 di
378

72	350	SLU STR.	16350	-810,4	-33500	-57850	-1273000	98,8
73	350	SLU STR.	-3331,6	-109,4	-46670	-6220,7	199400	-70,0
74	350	SLU STR.	9719,8	-608,2	-45030	-42600	-785300	35,8
75	350	SLU STR.	-3335,1	-58,3	-35980	-3000,7	211800	-60,8
76	350	SLU STR.	9716,3	-557,1	-34340	-39380	-772900	45,0
77	350	SLU STR.	-3490,2	-110,3	-46630	-6275,7	210400	-73
78	350	SLU STR.	9561,2	-609,0	-44990	-42650	-774300	32,9
79	350	SLU STR.	-3493,7	-59,2	-35940	-3055,6	222800	-63,8
80	350	SLU STR.	9557,7	-557,9	-34290	-39430	-761900	42,1
81	350	SLU STR.	-3100,7	1175,3	-47960	81920	183300	-119,6
82	350	SLU STR.	9950,6	676,6	-46320	45540	-801400	-13,8
83	350	SLU STR.	-3104,2	1226,4	-37270	85140	195800	-110,4
84	350	SLU STR.	9947,2	727,7	-35630	48760	-788900	-4,6
85	350	SLU STR.	-3098,5	1177,2	-47340	82030	183200	-119,5
86	350	SLU STR.	9952,8	678,5	-45700	45650	-801500	-13,6
87	350	SLU STR.	-3102,0	1228,3	-36650	85250	195700	-110,3
88	350	SLU STR.	9949,4	729,6	-35010	48870	-789000	-4,4
89	350	SLU STR.	-3097,7	1269,3	-47680	104500	183600	-104,1
90	350	SLU STR.	9953,7	770,6	-46040	68110	-801100	1,8
91	350	SLU STR.	-3101,1	1320,4	-36990	107700	196000	-94,9
92	350	SLU STR.	9950,3	821,6	-35350	71330	-788700	11,0
93	350	SLU STR.	-3098,7	1077,4	-47680	58720	183600	-136,1
94	350	SLU STR.	9952,7	578,7	-46040	22340	-801100	-30,2
95	350	SLU STR.	-3102,1	1128,5	-36990	61940	196000	-126,9
96	350	SLU STR.	9949,3	629,8	-35350	25560	-788700	-21,0
97	350	SLU STR.	-5168,0	1258,3	-46980	87910	339500	-136,1
98	350	SLU STR.	16580	427,1	-44240	27280	-1302000	40,3
99	350	SLU STR.	-5171,4	1309,4	-36280	91130	351900	-126,9
100	350	SLU STR.	16580	478,2	-33550	30500	-1289000	49,5
101	350	SLU STR.	-3096,3	1179,2	-46720	82140	183200	-119,3
102	350	SLU STR.	9955,0	680,4	-45080	45760	-801500	-13,5
103	350	SLU STR.	-3099,8	1230,3	-36020	85360	195600	-110,1
104	350	SLU STR.	9951,6	731,5	-34380	48980	-789100	-4,3
105	350	SLU STR.	-3098,1	2037,4	-46710	141000	183400	-155,1
106	350	SLU STR.	9953,3	1538,6	-45070	104600	-801300	-49,3
107	350	SLU STR.	-3101,5	2088,5	-36010	144200	195800	-145,9
108	350	SLU STR.	9949,9	1589,7	-34370	107800	-788900	-40,1
109	350	SLU STR.	-3094,8	-1401,8	-47990	-94870	182600	-12,7
110	350	SLU STR.	9956,6	-1900,6	-46350	-131200	-802100	93,2
111	350	SLU STR.	-3098,3	-1350,7	-37300	-91650	195000	-3,5
112	350	SLU STR.	9953,1	-1849,5	-35660	-128000	-789700	102,4
113	350	SLU STR.	-3092,6	-1399,9	-47370	-94760	182500	-12,6
114	350	SLU STR.	9958,8	-1898,6	-45730	-131100	-802200	93,3
115	350	SLU STR.	-3096,1	-1348,8	-36680	-91540	194900	-3,4
116	350	SLU STR.	9955,3	-1847,5	-35040	-127900	-789800	102,5
117	350	SLU STR.	-3091,8	-1307,8	-47720	-72310	182800	2,8
118	350	SLU STR.	9959,6	-1806,6	-46070	-108700	-801900	108,7
119	350	SLU STR.	-3095,2	-1256,7	-37020	-69090	195200	12,0
120	350	SLU STR.	9956,2	-1755,5	-35380	-105500	-789500	117,9
121	350	SLU STR.	-3092,8	-1499,7	-47710	-118100	182800	-29,2
122	350	SLU STR.	9958,6	-1998,4	-46070	-154400	-801900	76,7
123	350	SLU STR.	-3096,2	-1448,6	-37020	-114900	195300	-20,0
124	350	SLU STR.	9955,2	-1947,3	-35380	-151200	-789400	85,9
125	350	SLU STR.	-5162,1	-1318,8	-47010	-88880	338700	-29,2
126	350	SLU STR.	16590	-2150,0	-44270	-149500	-1302000	147,2
127	350	SLU STR.	-5165,5	-1267,7	-36320	-85660	351100	-20
128	350	SLU STR.	16590	-2099,0	-33580	-146300	-1290000	156,4
129	350	SLU STR.	-3090,4	-1397,9	-46750	-94650	182400	-12,4
130	350	SLU STR.	9961,0	-1896,7	-45110	-131000	-802300	93,5
131	350	SLU STR.	-3093,9	-1346,9	-36060	-91430	194800	-3,2

132	350	SLU STR.	9957,5	-1845,6	-34410	-127800	-789900	102,7
133	350	SLU STR.	-3088,2	-2257,8	-46760	-153700	182100	23,1
134	350	SLU STR.	9963,2	-2756,5	-45120	-190000	-802600	128,9
135	350	SLU STR.	-3091,7	-2206,7	-36070	-150400	194600	32,3
136	350	SLU STR.	9959,7	-2705,5	-34420	-186800	-790100	138,1
137	350	SLE Rare	-2061,9	-92,6	-35700	-5309,2	116500	-47,4
138	350	SLE Rare	6639,0	-425,2	-34600	-29560	-539900	23,2
139	350	SLE Rare	-2060,5	-91,4	-35280	-5237,3	116500	-47,3
140	350	SLE Rare	6640,5	-423,9	-34190	-29490	-540000	23,3
141	350	SLE Rare	-2059,9	-30,0	-35510	9731,7	116700	-37,0
142	350	SLE Rare	6641,0	-362,5	-34420	-14520	-539800	33,6
143	350	SLE Rare	-2060,6	-157,9	-35510	-20780	116700	-58,3
144	350	SLE Rare	6640,4	-490,4	-34420	-45030	-539800	12,2
145	350	SLE Rare	-3440,1	-37,3	-35040	-1316,0	220600	-58,4
146	350	SLE Rare	11060	-591,5	-33220	-41730	-873500	59,3
147	350	SLE Rare	-2059,0	-90,1	-34870	-5165,4	116400	-47,2
148	350	SLE Rare	6641,9	-422,6	-33770	-29420	-540100	23,4
149	350	SLE Rare	-1744,8	-91,0	-35780	-5199,3	94460	-41,4
150	350	SLE Rare	6956,2	-423,5	-34690	-29450	-562000	29,2
151	350	SLE Rare	-1743,3	-89,7	-35370	-5127,4	94390	-41,3
152	350	SLE Rare	6957,6	-422,2	-34270	-29380	-562100	29,3
153	350	SLE Rare	-1742,7	-28,3	-35590	9841,5	94600	-31,1
154	350	SLE Rare	6958,2	-360,8	-34500	-14410	-561900	39,5
155	350	SLE Rare	-1743,4	-156,2	-35590	-20670	94630	-52,4
156	350	SLE Rare	6957,6	-488,7	-34500	-44920	-561800	18,2
157	350	SLE Rare	-3122,9	-35,6	-35120	-1206,2	198500	-52,4
158	350	SLE Rare	11380	-589,8	-33300	-41620	-895600	65,2
159	350	SLE Rare	-1530,4	-87,3	-35010	-4982,3	79620	-37,3
160	350	SLE Rare	7170,6	-419,8	-33910	-29230	-576800	33,3
161	350	SLE Rare	-1741,8	-88,4	-34950	-5055,5	94330	-41,2
162	350	SLE Rare	6959,1	-420,9	-33860	-29310	-562100	29,4
163	350	SLE Rare	-2220,5	-93,5	-35660	-5364,1	127500	-50,3
164	350	SLE Rare	6480,4	-426,0	-34560	-29620	-528900	20,3
165	350	SLE Rare	-2219,1	-92,2	-35240	-5292,2	127500	-50,2
166	350	SLE Rare	6481,9	-424,7	-34150	-29540	-529000	20,4
167	350	SLE Rare	-2218,5	-30,8	-35470	9676,7	127700	-40,0
168	350	SLE Rare	6482,4	-363,3	-34380	-14570	-528800	30,6
169	350	SLE Rare	-2219,2	-158,7	-35470	-20830	127700	-61,3
170	350	SLE Rare	6481,8	-491,2	-34370	-45080	-528700	9,3
171	350	SLE Rare	-3598,7	-38,1	-35000	-1371,0	231600	-61,3
172	350	SLE Rare	10900	-592,3	-33170	-41790	-862500	56,3
173	350	SLE Rare	-2217,6	-90,9	-34820	-5220,3	127400	-50,1
174	350	SLE Rare	6483,3	-423,4	-33730	-29470	-529000	20,5
175	350	SLE Rare	-2323,3	-91,5	-34800	-5256,9	134800	-52,1
176	350	SLE Rare	6377,6	-424,0	-33700	-29510	-521700	18,5
177	350	SLE Rare	-2063,7	765,6	-35690	53540	116700	-83,2
178	350	SLE Rare	6637,2	433,1	-34590	29290	-539700	-12,6
179	350	SLE Rare	-2062,2	766,9	-35270	53610	116700	-83,1
180	350	SLE Rare	6638,7	434,4	-34180	29360	-539800	-12,5
181	350	SLE Rare	-2061,6	828,3	-35500	68580	116900	-72,8
182	350	SLE Rare	6639,3	495,7	-34410	44330	-539600	-2,3
183	350	SLE Rare	-2062,3	700,3	-35500	38070	116900	-94,2
184	350	SLE Rare	6638,6	367,8	-34410	13820	-539600	-23,6
185	350	SLE Rare	-3441,9	820,9	-35030	57530	220800	-94,2
186	350	SLE Rare	11060	266,8	-33210	17120	-873300	23,5
187	350	SLE Rare	-2060,8	768,2	-34860	53680	116600	-83,0
188	350	SLE Rare	6640,2	435,6	-33760	29430	-539800	-12,4
189	350	SLE Rare	-2061,9	1340,3	-34850	92920	116800	-106,8
190	350	SLE Rare	6639	1007,8	-33760	68670	-539700	-36,3
191	350	SLE Rare	-2059,7	-952,5	-35710	-64320	116200	-11,9

192	350	SLE Rare	6641,2	-1285,0	-34610	-88570	-540200	58,7
193	350	SLE Rare	-2058,3	-951,2	-35290	-64250	116200	-11,8
194	350	SLE Rare	6642,6	-1283,7	-34200	-88500	-540300	58,8
195	350	SLE Rare	-2057,7	-889,8	-35520	-49280	116400	-1,6
196	350	SLE Rare	6643,2	-1222,3	-34430	-73530	-540100	69,0
197	350	SLE Rare	-2058,4	-1017,7	-35520	-79790	116400	-22,9
198	350	SLE Rare	6642,6	-1350,2	-34430	-104000	-540100	47,7
199	350	SLE Rare	-3437,9	-897,1	-35050	-60330	220300	-22,9
200	350	SLE Rare	11060	-1451,3	-33230	-100700	-873800	94,7
201	350	SLE Rare	-2056,8	-949,9	-34880	-64170	116100	-11,7
202	350	SLE Rare	6644,1	-1282,4	-33780	-88430	-540400	58,9
203	350	SLE Rare	-2055,4	-1523,2	-34880	-103500	115900	12,0
204	350	SLE Rare	6645,6	-1855,7	-33790	-127800	-540500	82,5
205	350	SLE Freq.	17,4	-157,7	-32470	-9914,3	-40720	-28,8
206	350	SLE Freq.	15,9	-159,0	-32890	-9986,2	-40660	-29,0
207	350	SLE Freq.	16,8	-117,6	-32900	17,1	-40540	-22,1
208	350	SLE Freq.	16,3	-202,9	-32900	-20320	-40520	-36,3
209	350	SLE Freq.	-1709,0	-91,7	-32690	-5102,6	89530	-42,9
210	350	SLE Freq.	5541,8	-368,8	-31780	-25310	-457500	16,0
211	350	SLE Freq.	123,1	-157,1	-32500	-9877,6	-48070	-26,9
212	350	SLE Freq.	-35,5	-158,0	-32460	-9932,6	-37040	-29,8
213	350	SLE Freq.	16,8	128,4	-32470	9702,5	-40650	-40,8
214	350	SLE Freq.	18,1	-444,3	-32480	-29580	-40810	-17,0
215	350	SLE Quasi P.	17,4	-157,7	-32470	-9914,3	-40720	-28,8
216	350	SLU A1 sism.	6913,6	2907,2	-36010	177500	-498000	1188,1
217	350	SLU A1 sism.	7033,6	-2818,7	-36160	-180800	-510900	2738,7
218	350	SLU A1 sism.	-6998,9	2503,4	-28790	160900	429400	-2796,4
219	350	SLU A1 sism.	-6878,9	-3222,6	-28930	-197300	416500	-1245,8
220	350	SLU A1 sism.	6919,9	2632,4	-36000	153600	-498700	1247,1
221	350	SLU A1 sism.	7027,4	-2544,0	-36160	-156900	-510200	2679,8
222	350	SLU A1 sism.	-6992,7	2228,6	-28780	137100	428700	-2737,4
223	350	SLU A1 sism.	-6885,1	-2947,8	-28940	-173500	417200	-1304,8
224	350	SLU A1 sism.	6908,7	2558,8	-35990	162800	-497100	-2009,6
225	350	SLU A1 sism.	7028,6	-3167,2	-36140	-195500	-510000	-459,0
226	350	SLU A1 sism.	-6993,9	2851,8	-28810	175700	428600	401,4
227	350	SLU A1 sism.	-6873,9	-2874,1	-28950	-182600	415600	1951,9
228	350	SLU A1 sism.	6914,9	2284,0	-35980	138900	-497800	-1950,7
229	350	SLU A1 sism.	7022,4	-2892,4	-36140	-171600	-509300	-518,0
230	350	SLU A1 sism.	-6987,7	2577,1	-28800	151800	427900	460,3
231	350	SLU A1 sism.	-6880,2	-2599,3	-28960	-158800	416400	1893,0
232	350	SLU A1 sism.	1904,3	9446,1	-33310	589700	-158300	-2015,5
233	350	SLU A1 sism.	2304,2	-9640,3	-33800	-604600	-201400	3153,2
234	350	SLU A1 sism.	-2269,5	9325,0	-31150	584700	119900	-3210,9
235	350	SLU A1 sism.	-1869,5	-9761,5	-31630	-609500	76840	1957,8
236	350	SLU A1 sism.	1902,8	9341,6	-33310	585300	-158000	-2974,8
237	350	SLU A1 sism.	2302,7	-9744,8	-33790	-609000	-201100	2193,8
238	350	SLU A1 sism.	-2268	9429,5	-31150	589200	119700	-2251,5
239	350	SLU A1 sism.	-1868,1	-9656,9	-31640	-605100	76580	2917,1
240	350	SLU A1 sism.	1925,0	8530,2	-33290	510100	-160700	-1818,9
241	350	SLU A1 sism.	2283,5	-8724,4	-33820	-525000	-199000	2956,6
242	350	SLU A1 sism.	-2248,7	8409,0	-31120	505100	117500	-3014,2
243	350	SLU A1 sism.	-1890,3	-8845,5	-31660	-529900	79230	1761,2
244	350	SLU A1 sism.	1923,5	8425,7	-33280	505700	-160400	-2778,2
245	350	SLU A1 sism.	2282,0	-8828,9	-33820	-529400	-198700	1997,2
246	350	SLU A1 sism.	-2247,2	8513,6	-31130	509600	117300	-2054,9
247	350	SLU A1 sism.	-1888,8	-8741	-31660	-525500	78970	2720,5

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 10 Ø 20 = 31,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 10, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
44	350	0	-33689,5	17078,4	1323951	0,426	0,141	0,449	Ok
25	350	0	-48102,7	2624,6	150039,3	0,045	0,201	0,069	Ok
42	350	0	-44381,5	17084,3	1336523	0,411	0,185	0,449	Ok
44	350	-50	-33651,3	10966,6	525588,2	0,169	0,141	0,288	Ok
25	350	-50	-48048,2	1513,0	29692,9	0,009	0,201	0,040	Ok
42	350	-50	-44331,2	11009,5	537357,8	0,165	0,185	0,289	Ok
243	350	-100	-31522,1	2253,2	146697,4	0,048	0,132	0,059	Ok
25	350	-100	-47895,3	630,7	45955,8	0,014	0,200	0,017	Ok
42	350	-100	-44190,2	5631,8	14064,4	0,004	0,185	0,148	Ok
44	350	-150	-33400,6	1393,3	301698	0,097	0,140	0,037	Ok
25	350	-150	-47690,2	22,2	77491,1	0,024	0,199	0,001	Ok
42	350	-150	-44001,0	1437,3	294757,7	0,091	0,184	0,038	Ok
44	350	-200	-33286,0	784,3	371348,9	0,120	0,139	0,021	Ok
25	350	-200	-47526,7	224,9	78602,6	0,024	0,199	0,006	Ok
44	350	-250	-33232,8	1010,9	332136,1	0,107	0,139	0,027	Ok
25	350	-250	-47450,6	230,3	67358,9	0,020	0,198	0,006	Ok
44	350	-300	-33207,7	1012,1	281592,2	0,091	0,139	0,027	Ok
25	350	-300	-47414,8	223,4	55842,9	0,017	0,198	0,006	Ok
44	350	-350	-33178,6	980,9	230985,7	0,074	0,139	0,026	Ok
25	350	-350	-47373,2	211,3	44671,2	0,014	0,198	0,006	Ok
44	350	-400	-33145,4	929,0	181941,8	0,059	0,138	0,024	Ok
25	350	-400	-47325,8	196,2	34108,3	0,010	0,198	0,005	Ok
44	350	-450	-33104,4	850,8	135491,1	0,044	0,138	0,022	Ok
25	350	-450	-47267,3	176,0	24300,0	0,007	0,197	0,005	Ok
44	350	-500	-33051,8	704,1	92949,2	0,030	0,138	0,019	Ok
25	350	-500	-47192,2	140,9	15497,5	0,005	0,197	0,004	Ok
44	350	-550	-32991,6	547,3	57744,1	0,019	0,138	0,014	Ok
25	350	-550	-47106,2	105,3	8451,1	0,003	0,197	0,003	Ok
44	350	-600	-32927,7	405,3	30378,6	0,010	0,138	0,011	Ok
25	350	-600	-47015,0	74,3	3186,9	0,001	0,196	0,002	Ok
42	350	-650	-43289,1	281,8	10593,2	0,003	0,181	0,007	Ok
25	350	-650	-46918,7	48,6	528,2	0,000	0,196	0,001	Ok
44	350	-650	-32860,2	282,8	10116,7	0,003	0,137	0,007	Ok
243	350	-700	-30812,7	96,8	9525,7	0,003	0,129	0,003	Ok
25	350	-700	-46817,4	28,1	2956,6	0,001	0,196	0,001	Ok
42	350	-700	-43195,7	181,9	3508,7	0,001	0,180	0,005	Ok
235	350	-750	-30716,5	50,3	14645,0	0,005	0,128	0,001	Ok
25	350	-750	-46711,4	12,6	4361,7	0,001	0,195	0,000	Ok
42	350	-750	-43097,9	102,9	12596,2	0,004	0,180	0,003	Ok
44	350	-800	-32637,5	42,2	18231,3	0,006	0,136	0,001	Ok
25	350	-800	-46600,6	1,4	4989,9	0,002	0,195	0,000	Ok
42	350	-800	-42995,7	43,4	17742,4	0,005	0,180	0,001	Ok
44	350	-850	-32556,7	0,8	20339,9	0,007	0,136	0,000	Ok
25	350	-850	-46485,3	6,1	5058,7	0,002	0,194	0,000	Ok
243	350	-850	-30594,1	19,5	16835,9	0,005	0,128	0,001	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 300 di
378

44	350	-900	-32472,9	29,0	20308,5	0,007	0,136	0,001	Ok
25	350	-900	-46365,6	10,7	4751,7	0,001	0,194	0,000	Ok
235	350	-900	-30489,1	35,6	16664,6	0,005	0,127	0,001	Ok
44	350	-950	-32386,1	45,9	18857,4	0,006	0,135	0,001	Ok
25	350	-950	-46241,6	13,0	4216,8	0,001	0,193	0,000	Ok
44	350	-1000	-32296,3	53,9	16563,7	0,005	0,135	0,001	Ok
25	350	-1000	-46113,5	13,5	3568,6	0,001	0,193	0,000	Ok
44	350	-1050	-32203,8	55,4	13870,1	0,004	0,135	0,001	Ok
25	350	-1050	-45981,4	13,0	2891,1	0,001	0,192	0,000	Ok
44	350	-1100	-32108,6	52,5	11099,6	0,004	0,134	0,001	Ok
25	350	-1100	-45845,4	11,7	2242,6	0,001	0,192	0,000	Ok
44	350	-1150	-32010,7	46,8	8474,2	0,003	0,134	0,001	Ok
25	350	-1150	-45705,7	9,9	1660,0	0,001	0,191	0,000	Ok
44	350	-1200	-31910,3	39,5	6134,6	0,002	0,133	0,001	Ok
25	350	-1200	-45562,4	8,0	1163,9	0,000	0,190	0,000	Ok
44	350	-1250	-31807,5	31,6	4158,8	0,001	0,133	0,001	Ok
25	350	-1250	-45415,6	6,1	762,5	0,000	0,190	0,000	Ok
44	350	-1300	-31702,4	23,6	2579,3	0,001	0,132	0,001	Ok
25	350	-1300	-45265,4	4,4	455,4	0,000	0,189	0,000	Ok
44	350	-1350	-31595,0	16,1	1397,1	0,000	0,132	0,000	Ok
25	350	-1350	-45112,1	2,8	236,2	0,000	0,188	0,000	Ok
44	350	-1400	-31485,4	9,1	593,6	0,000	0,132	0,000	Ok
25	350	-1400	-44955,6	1,5	95,2	0,000	0,188	0,000	Ok
44	350	-1450	-31373,7	2,8	139,4	0,000	0,131	0,000	Ok
25	350	-1450	-44796,2	0,4	20,6	0,000	0,187	0,000	Ok
42	350	-1450	-41330,9	2,8	139,6	0,000	0,173	0,000	Ok
222	350	-1500	-26802,8	1,2	0	0	0,112	0,000	Ok
25	350	-1500	-44796,2	0,4	0	0	0,187	0,000	Ok
42	350	-1500	-41330,9	2,8	0	0	0,173	0,000	Ok

Sezioni maggiormente sollecitate:

Pl.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
350	44	350	0	-33689,5	17078,4	1323951	0,426	0,141	0,449
350	25	350	0	-48102,7	2624,6	150039,3	0,045	0,201	0,069
350	42	350	0	-44381,5	17084,3	1336523	0,411	0,185	0,449

S/Su massime:

Ver. N/M = 0,426 < 1 Ok

Ver. (25) = 0,201 < 1 Ok

Ver. V = 0,449 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
158	350	0	-33299,8	896544,6	735,5	-59,9	Ok
158	350	-50	-33262,1	363338,6	-317,6	-24,7	Ok
195	350	-100	-35369,1	40673,9	-179,4	-12,3	Ok
158	350	-150	-33014,3	193565,5	-236,8	-17,6	Ok
158	350	-200	-32901,1	242407,3	-258,0	-19,5	Ok
158	350	-250	-32848,5	217539,7	-246,7	-18,5	Ok
158	350	-300	-32823,7	184748,5	-232,0	-17,2	Ok
158	350	-350	-32794,9	151827,9	-217,2	-15,9	Ok
158	350	-400	-32762,1	119858,4	-202,8	-14,6	Ok
158	350	-450	-32721,6	89530,8	-189,1	-13,4	Ok
158	350	-500	-32669,5	61710,5	-176,4	-12,3	Ok
158	350	-550	-32610,0	38629,2	-165,9	-11,4	Ok

150	350	-600	-33902,2	13021,2	-160,3	-10,8	Ok
191	350	-600	-34900,6	2844,8	-160,4	-10,7	Ok
204	350	-600	-33026,0	12845,4	-156,3	-10,5	Ok
149	350	-650	-34899,9	557,5	-159,1	-10,6	Ok
149	350	-700	-34824,6	2199,1	-159,7	-10,7	Ok
149	350	-750	-34745,7	3135,2	-159,8	-10,7	Ok
191	350	-800	-34593,0	4219,2	-159,6	-10,7	Ok
149	350	-800	-34663,3	3537,8	-159,6	-10,7	Ok
204	350	-800	-32735,0	6605,4	-152,2	-10,2	Ok
191	350	-850	-34507,4	4287,7	-159,2	-10,7	Ok
191	350	-900	-34418,5	4034,4	-158,7	-10,6	Ok
149	350	-900	-34488,5	3324,2	-158,7	-10,6	Ok
204	350	-900	-32569,9	7621,5	-151,9	-10,2	Ok
191	350	-950	-34326,5	3585,4	-158,1	-10,6	Ok
149	350	-950	-34396,3	2937,3	-158,1	-10,6	Ok
204	350	-950	-32482,8	7143,4	-151,3	-10,2	Ok
191	350	-1000	-34231,4	3038,0	-157,4	-10,5	Ok
149	350	-1000	-34301,0	2476,6	-157,5	-10,5	Ok
204	350	-1000	-32392,8	6321,3	-150,5	-10,1	Ok
191	350	-1050	-34133,3	2464,1	-156,7	-10,5	Ok
149	350	-1100	-34101,6	1545,8	-155,4	-10,4	Ok
149	350	-1150	-33997,7	1140,3	-155,0	-10,3	Ok
149	350	-1200	-33891,0	796,6	-154,5	-10,3	Ok
149	350	-1250	-33781,9	519,8	-154,0	-10,3	Ok
149	350	-1300	-33670,2	309,0	-153,5	-10,2	Ok
149	350	-1350	-33556,1	159,4	-153,0	-10,2	Ok
149	350	-1400	-33439,7	63,8	-152,4	-10,2	Ok
149	350	-1450	-33321,1	13,6	-151,9	-10,1	Ok
149	350	-1500	-33321,1	0	-151,9	-10,1	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
350	158	350	0	-33299,8	896544,6	735,5	-59,9

Valori massimi SLE condizioni rare:

Ten.massima CLS = 59,9 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 735,5 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	350	0	-31777,6	458223,9	0	Ok
210	350	-50	-31741,6	197403,7	0	Ok
209	350	-100	-32548,4	36455,2	0	Ok
210	350	-150	-31505,1	82060,3	0	Ok
210	350	-200	-31397,1	109642,5	0	Ok
210	350	-250	-31346,8	99583,1	0	Ok
210	350	-300	-31323,2	85081,7	0	Ok
210	350	-350	-31295,7	70377,5	0	Ok
210	350	-400	-31264,4	55991,3	0	Ok
210	350	-450	-31225,7	42264,8	0	Ok
210	350	-500	-31176,1	29600,4	0	Ok
210	350	-550	-31119,3	18997,7	0	Ok
210	350	-600	-31059,1	10646,8	0	Ok
207	350	-600	-32158,4	1119,1	0	Ok
214	350	-600	-31741,5	1302,2	0	Ok
207	350	-650	-32092,6	1566,2	0	Ok
209	350	-700	-31815,9	2285,2	0	Ok
209	350	-750	-31743,8	3202,6	0	Ok

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. **302** di
378

209	350	-800	-31668,6	3588,2	0	Ok
209	350	-850	-31590,2	3594,1	0	Ok
209	350	-900	-31508,9	3347,7	0	Ok
209	350	-950	-31424,6	2951,3	0	Ok
209	350	-1000	-31337,6	2483,4	0	Ok
209	350	-1050	-31247,8	2001,3	0	Ok
207	350	-1050	-31451,5	589,2	0	Ok
214	350	-1050	-31043,7	694,7	0	Ok
207	350	-1100	-31358,4	418,7	0	Ok
207	350	-1150	-31262,9	281,1	0	Ok
207	350	-1200	-31164,8	175,7	0	Ok
207	350	-1250	-31064,4	99,8	0	Ok
207	350	-1300	-30961,7	49,4	0	Ok
207	350	-1350	-30856,8	19,6	0	Ok
207	350	-1400	-30749,8	5,3	0	Ok
207	350	-1450	-30640,8	1,1	0	Ok
207	350	-1500	-30640,8	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
350	210	350	0	-31777,6	458223,9	0

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	350	0	-32472,2	41910,0	-11,5	0	Ok
215	350	-50	-32435,5	38269,8	-11,4	0	Ok
215	350	-100	-32332,2	31335,6	-11,0	0	Ok
215	350	-150	-32193,8	23008,9	-10,7	0	Ok
215	350	-200	-32083,4	16095,1	-10,4	0	Ok
215	350	-250	-32032,1	12281,4	-10,2	0	Ok
215	350	-300	-32007,9	9510,8	-10,1	0	Ok
215	350	-350	-31979,8	6999,0	-10,0	0	Ok
215	350	-400	-31947,8	4761,4	-9,9	0	Ok
215	350	-450	-31908,3	2801,0	-9,8	0	Ok
215	350	-500	-31857,6	1211,8	-9,7	0	Ok
215	350	-550	-31799,6	634,3	-9,7	0	Ok
215	350	-600	-31738,0	1143,6	-9,6	0	Ok
215	350	-650	-31673,0	1545,3	-9,6	0	Ok
215	350	-700	-31604,6	1724,4	-9,6	0	Ok
215	350	-750	-31533,0	1729,6	-9,6	0	Ok
215	350	-800	-31458,3	1615,8	-9,6	0	Ok
215	350	-850	-31380,4	1430,0	-9,5	0	Ok
215	350	-900	-31299,6	1209,1	-9,5	0	Ok
215	350	-950	-31215,9	980,5	-9,5	0	Ok
215	350	-1000	-31129,5	763,1	-9,5	0	Ok
215	350	-1050	-31040,3	569,0	-9,4	0	Ok
215	350	-1100	-30948,5	404,4	-9,4	0	Ok
215	350	-1150	-30854,2	271,7	-9,4	0	Ok
215	350	-1200	-30757,4	170,1	-9,3	0	Ok
215	350	-1250	-30658,3	97,1	-9,3	0	Ok
215	350	-1300	-30556,9	48,6	-9,3	0	Ok
215	350	-1350	-30453,4	20,0	-9,3	0	Ok
215	350	-1400	-30347,8	6,1	-9,2	0	Ok
215	350	-1450	-30240,2	1,5	-9,2	0	Ok

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 303 di
378

215	350	-1500	-30240,2	0	-9,2	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
350	215	350	0	-32472,2	41910,0	-11,5	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 11,5 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 403

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	403	SLU STR.	-8459,5	-236,7	-42440	-22210	543800	32,6
2	403	SLU STR.	29290	-591,5	-41850	-43470	-2251000	116,9
3	403	SLU STR.	-8581,2	-165,4	-33000	-16250	572300	20,8
4	403	SLU STR.	29170	-520,1	-32410	-37510	-2222000	105,1
5	403	SLU STR.	-8468,9	-233,7	-41840	-21940	545300	31,7
6	403	SLU STR.	29280	-588,4	-41250	-43200	-2249000	116,0
7	403	SLU STR.	-8590,6	-162,3	-32400	-15980	573700	19,9
8	403	SLU STR.	29160	-517,0	-31810	-37240	-2221000	104,2
9	403	SLU STR.	-8471,7	-149,0	-42220	-744,4	546100	31,0
10	403	SLU STR.	29280	-503,8	-41630	-22000	-2248000	115,3
11	403	SLU STR.	-8593,4	-77,7	-32780	5217,7	574500	19,2
12	403	SLU STR.	29150	-432,4	-32190	-16040	-2220000	103,5
13	403	SLU STR.	-8473,4	-327,7	-42210	-44210	546200	32,8
14	403	SLU STR.	29270	-682,5	-41620	-65470	-2248000	117,1
15	403	SLU STR.	-8595,1	-256,4	-32770	-38250	574700	21,1
16	403	SLU STR.	29150	-611,1	-32180	-59510	-2220000	105,3
17	403	SLU STR.	-14470	-174,3	-41330	-18290	990300	17,5
18	403	SLU STR.	48440	-765,5	-40350	-53720	-3667000	157,9
19	403	SLU STR.	-14590	-102,9	-31900	-12330	1019000	5,7
20	403	SLU STR.	48320	-694,2	-30910	-47760	-3639000	146,1
21	403	SLU STR.	-8478,2	-230,6	-41240	-21660	546700	30,8
22	403	SLU STR.	29270	-585,3	-40650	-42920	-2248000	115,1
23	403	SLU STR.	-8599,9	-159,2	-31800	-15700	575100	19,1
24	403	SLU STR.	29150	-514,0	-31210	-36960	-2219000	103,3
25	403	SLU STR.	-7993,9	-230,0	-42820	-21790	511900	41,0
26	403	SLU STR.	29750	-584,8	-42230	-43050	-2282000	125,3
27	403	SLU STR.	-8115,6	-158,7	-33390	-15830	540400	29,3
28	403	SLU STR.	29630	-513,4	-32800	-37090	-2254000	113,5
29	403	SLU STR.	-8003,3	-227,0	-42220	-21520	513400	40,1
30	403	SLU STR.	29740	-581,7	-41630	-42780	-2281000	124,4
31	403	SLU STR.	-8125,0	-155,6	-32790	-15560	541800	28,4
32	403	SLU STR.	29620	-510,4	-32200	-36820	-2253000	112,7
33	403	SLU STR.	-8006,1	-142,3	-42600	-326,6	514100	39,4
34	403	SLU STR.	29740	-497,1	-42010	-21590	-2280000	123,7
35	403	SLU STR.	-8127,8	-71,0	-33160	5635,6	542600	27,7
36	403	SLU STR.	29620	-425,7	-32570	-15620	-2252000	111,9
37	403	SLU STR.	-8007,8	-321,0	-42590	-43790	514300	41,3
38	403	SLU STR.	29740	-675,8	-42000	-65050	-2280000	125,6
39	403	SLU STR.	-8129,5	-249,7	-33160	-37830	542800	29,5
40	403	SLU STR.	29620	-604,4	-32570	-59090	-2252000	113,8
41	403	SLU STR.	-14000	-167,6	-41710	-17870	958300	25,9

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PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 304 di
378

42	403	SLU STR.	48910	-758,8	-40730	-53300	-3699000	166,4
43	403	SLU STR.	-14130	-96,2	-32280	-11910	986800	14,1
44	403	SLU STR.	48790	-687,5	-31300	-47340	-3671000	154,6
45	403	SLU STR.	-7702,2	-219,4	-41880	-20970	493500	44,9
46	403	SLU STR.	30040	-574,2	-41290	-42230	-2301000	129,2
47	403	SLU STR.	-7823,9	-148,1	-32440	-15010	522000	33,1
48	403	SLU STR.	29920	-502,8	-31850	-36270	-2272000	117,4
49	403	SLU STR.	-8012,6	-223,9	-41620	-21250	514800	39,3
50	403	SLU STR.	29730	-578,6	-41030	-42510	-2280000	123,5
51	403	SLU STR.	-8134,3	-152,5	-32190	-15280	543200	27,5
52	403	SLU STR.	29610	-507,3	-31600	-36540	-2251000	111,8
53	403	SLU STR.	-8692,4	-240,1	-42250	-22420	559800	28,4
54	403	SLU STR.	29050	-594,8	-41660	-43680	-2235000	112,6
55	403	SLU STR.	-8814,1	-168,7	-32810	-16460	588200	16,6
56	403	SLU STR.	28930	-523,5	-32220	-37720	-2206000	100,9
57	403	SLU STR.	-8701,7	-237,0	-41650	-22150	561200	27,5
58	403	SLU STR.	29050	-591,8	-41060	-43410	-2233000	111,8
59	403	SLU STR.	-8823,4	-165,7	-32210	-16180	589700	15,7
60	403	SLU STR.	28920	-520,4	-31620	-37440	-2205000	100,0
61	403	SLU STR.	-8704,5	-152,4	-42020	-953,4	562000	26,8
62	403	SLU STR.	29040	-507,1	-41430	-22210	-2232000	111,0
63	403	SLU STR.	-8826,2	-81,0	-32590	5008,8	590500	15,0
64	403	SLU STR.	28920	-435,8	-32000	-16250	-2204000	99,3
65	403	SLU STR.	-8706,2	-331,1	-42020	-44420	562200	28,6
66	403	SLU STR.	29040	-685,8	-41430	-65680	-2232000	112,9
67	403	SLU STR.	-8827,9	-259,7	-32580	-38460	590600	16,9
68	403	SLU STR.	28920	-614,5	-31990	-59720	-2204000	101,1
69	403	SLU STR.	-14700	-177,6	-41140	-18500	1006000	13,2
70	403	SLU STR.	48210	-768,9	-40160	-53930	-3651000	153,7
71	403	SLU STR.	-14820	-106,3	-31700	-12540	1035000	1,5
72	403	SLU STR.	48090	-697,5	-30720	-47970	-3623000	141,9
73	403	SLU STR.	-8711,1	-233,9	-41050	-21870	562700	26,6
74	403	SLU STR.	29040	-588,7	-40460	-43130	-2232000	110,9
75	403	SLU STR.	-8832,8	-162,6	-31610	-15910	591100	14,8
76	403	SLU STR.	28910	-517,3	-31020	-37170	-2203000	99,1
77	403	SLU STR.	-8866,3	-236,2	-40920	-22010	573300	23,8
78	403	SLU STR.	28880	-590,9	-40330	-43270	-2221000	108,1
79	403	SLU STR.	-8988,0	-164,8	-31480	-16050	601700	12,0
80	403	SLU STR.	28760	-519,6	-30890	-37310	-2193000	96,3
81	403	SLU STR.	-8461,2	1085,5	-42430	75480	544100	-167,4
82	403	SLU STR.	29290	730,8	-41850	54220	-2250000	-83,1
83	403	SLU STR.	-8582,9	1156,9	-33000	81440	572500	-179,2
84	403	SLU STR.	29160	802,1	-32410	60180	-2222000	-94,9
85	403	SLU STR.	-8470,5	1088,6	-41830	75750	545500	-168,3
86	403	SLU STR.	29280	733,9	-41240	54490	-2249000	-84,0
87	403	SLU STR.	-8592,2	1159,9	-32400	81710	574000	-180,1
88	403	SLU STR.	29150	805,2	-31810	60450	-2220000	-95,8
89	403	SLU STR.	-8473,3	1173,2	-42210	96940	546300	-169,0
90	403	SLU STR.	29270	818,5	-41620	75680	-2248000	-84,7
91	403	SLU STR.	-8595,0	1244,6	-32780	102900	574800	-180,8
92	403	SLU STR.	29150	889,8	-32190	81650	-2220000	-96,5
93	403	SLU STR.	-8475,0	994,5	-42210	53480	546500	-167,2
94	403	SLU STR.	29270	639,8	-41620	32220	-2248000	-82,9
95	403	SLU STR.	-8596,7	1065,9	-32770	59440	574900	-178,9
96	403	SLU STR.	29150	711,1	-32180	38180	-2219000	-94,7
97	403	SLU STR.	-14470	1148,0	-41330	79400	990500	-182,5
98	403	SLU STR.	48440	556,7	-40350	43970	-3667000	-42,1
99	403	SLU STR.	-14590	1219,3	-31890	85360	1019000	-194,3
100	403	SLU STR.	48320	628,1	-30910	49930	-3638000	-53,9
101	403	SLU STR.	-8479,9	1091,7	-41230	76030	547000	-169,2

MANDATARIA

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PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 305 di
378

102	403	SLU STR.	29270	736,9	-40640	54770	-2247000	-84,9
103	403	SLU STR.	-8601,6	1163,0	-31800	81990	575400	-180,9
104	403	SLU STR.	29150	808,3	-31210	60730	-2219000	-96,7
105	403	SLU STR.	-8481,0	1973,2	-41230	141200	547100	-302,5
106	403	SLU STR.	29270	1618,4	-40640	119900	-2247000	-218,2
107	403	SLU STR.	-8602,7	2044,5	-31800	147100	575600	-314,3
108	403	SLU STR.	29140	1689,8	-31210	125900	-2219000	-230,0
109	403	SLU STR.	-8455,4	-1561,5	-42440	-120100	543300	232,2
110	403	SLU STR.	29290	-1916,2	-41850	-141400	-2251000	316,5
111	403	SLU STR.	-8577,1	-1490,2	-33000	-114200	571800	220,5
112	403	SLU STR.	29170	-1844,9	-32410	-135400	-2223000	304,7
113	403	SLU STR.	-8464,8	-1558,4	-41840	-119900	544800	231,3
114	403	SLU STR.	29280	-1913,2	-41250	-141100	-2250000	315,6
115	403	SLU STR.	-8586,5	-1487,1	-32400	-113900	573200	219,6
116	403	SLU STR.	29160	-1841,8	-31810	-135200	-2221000	303,9
117	403	SLU STR.	-8467,6	-1473,8	-42220	-98670	545600	230,6
118	403	SLU STR.	29280	-1828,5	-41630	-119900	-2249000	314,9
119	403	SLU STR.	-8589,3	-1402,5	-32780	-92710	574000	218,9
120	403	SLU STR.	29160	-1757,2	-32190	-114000	-2220000	303,1
121	403	SLU STR.	-8469,3	-1652,5	-42210	-142100	545700	232,5
122	403	SLU STR.	29280	-2007,3	-41620	-163400	-2249000	316,8
123	403	SLU STR.	-8591,0	-1581,2	-32770	-136200	574200	220,7
124	403	SLU STR.	29160	-1935,9	-32190	-157400	-2220000	305,0
125	403	SLU STR.	-14470	-1499,1	-41330	-116200	989800	217,1
126	403	SLU STR.	48450	-2090,3	-40350	-151700	-3668000	357,6
127	403	SLU STR.	-14590	-1427,7	-31900	-110300	1018000	205,3
128	403	SLU STR.	48320	-2018,9	-30910	-145700	-3639000	345,8
129	403	SLU STR.	-8474,2	-1555,4	-41240	-119600	546200	230,5
130	403	SLU STR.	29270	-1910,1	-40650	-140900	-2248000	314,7
131	403	SLU STR.	-8595,9	-1484,0	-31800	-113600	574700	218,7
132	403	SLU STR.	29150	-1838,8	-31210	-134900	-2220000	303,0
133	403	SLU STR.	-8471,4	-2438,6	-41240	-184900	545900	363,6
134	403	SLU STR.	29280	-2793,3	-40650	-206100	-2249000	447,8
135	403	SLU STR.	-8593,1	-2367,2	-31800	-178900	574300	351,8
136	403	SLU STR.	29150	-2721,9	-31210	-200200	-2220000	436,1
137	403	SLE Rare	-5596,6	-182,7	-31480	-16810	351700	25,7
138	403	SLE Rare	19570	-419,2	-31090	-30990	-1511000	81,9
139	403	SLE Rare	-5602,8	-180,7	-31080	-16630	352600	25,2
140	403	SLE Rare	19560	-417,2	-30690	-30800	-1510000	81,3
141	403	SLE Rare	-5604,7	-124,3	-31340	-2500,9	353200	24,7
142	403	SLE Rare	19560	-360,8	-30940	-16670	-1510000	80,8
143	403	SLE Rare	-5605,8	-243,4	-31330	-31480	353300	25,9
144	403	SLE Rare	19560	-479,9	-30940	-45650	-1510000	82,1
145	403	SLE Rare	-9603,4	-141,1	-30750	-14200	649300	15,7
146	403	SLE Rare	32340	-535,3	-30090	-37820	-2456000	109,3
147	403	SLE Rare	-5609,1	-178,6	-30680	-16450	353600	24,6
148	403	SLE Rare	19560	-415,1	-30290	-30620	-1509000	80,8
149	403	SLE Rare	-5286,2	-178,3	-31740	-16530	330400	31,4
150	403	SLE Rare	19880	-414,8	-31350	-30710	-1533000	87,5
151	403	SLE Rare	-5292,4	-176,2	-31340	-16350	331300	30,8
152	403	SLE Rare	19870	-412,7	-30950	-30520	-1532000	87,0
153	403	SLE Rare	-5294,3	-119,8	-31590	-2222,4	331900	30,3
154	403	SLE Rare	19870	-356,3	-31200	-16400	-1531000	86,5
155	403	SLE Rare	-5295,4	-238,9	-31590	-31200	332000	31,5
156	403	SLE Rare	19870	-475,4	-31190	-45370	-1531000	87,7
157	403	SLE Rare	-9293,0	-136,6	-31000	-13920	628000	21,3
158	403	SLE Rare	32650	-530,8	-30350	-37540	-2477000	114,9
159	403	SLE Rare	-5091,7	-171,2	-31110	-15980	318100	33,9
160	403	SLE Rare	20070	-407,7	-30720	-30160	-1545000	90,1
161	403	SLE Rare	-5298,6	-174,2	-30940	-16170	332300	30,2

162	403	SLE Rare	19870	-410,7	-30550	-30340	-1531000	86,4
163	403	SLE Rare	-5751,8	-185,0	-31360	-16950	362300	22,9
164	403	SLE Rare	19410	-421,4	-30960	-31120	-1501000	79,1
165	403	SLE Rare	-5758,0	-182,9	-30960	-16770	363300	22,3
166	403	SLE Rare	19410	-419,4	-30560	-30940	-1500000	78,5
167	403	SLE Rare	-5759,9	-126,5	-31210	-2640,2	363800	21,9
168	403	SLE Rare	19400	-363,0	-30810	-16810	-1499000	78,0
169	403	SLE Rare	-5761,1	-245,6	-31200	-31620	363900	23,1
170	403	SLE Rare	19400	-482,1	-30810	-45790	-1499000	79,3
171	403	SLE Rare	-9758,7	-143,3	-30620	-14340	659900	12,8
172	403	SLE Rare	32180	-537,5	-29960	-37960	-2445000	106,5
173	403	SLE Rare	-5764,3	-180,9	-30560	-16590	364200	21,8
174	403	SLE Rare	19400	-417,4	-30160	-30760	-1499000	77,9
175	403	SLE Rare	-5867,8	-182,4	-30470	-16680	371300	19,9
176	403	SLE Rare	19300	-418,8	-30080	-30850	-1492000	76,1
177	403	SLE Rare	-5597,7	698,8	-31480	48310	351800	-107,6
178	403	SLE Rare	19570	462,3	-31090	34140	-1511000	-51,4
179	403	SLE Rare	-5603,9	700,8	-31080	48500	352800	-108,2
180	403	SLE Rare	19560	464,3	-30690	34320	-1510000	-52,0
181	403	SLE Rare	-5605,8	757,2	-31330	62630	353300	-108,7
182	403	SLE Rare	19560	520,8	-30940	48450	-1510000	-52,5
183	403	SLE Rare	-5606,9	638,1	-31330	33650	353400	-107,4
184	403	SLE Rare	19560	401,6	-30940	19470	-1509000	-51,2
185	403	SLE Rare	-9604,5	740,4	-30740	50930	649500	-117,7
186	403	SLE Rare	32340	346,3	-30090	27310	-2455000	-24,0
187	403	SLE Rare	-5610,2	702,9	-30680	48680	353800	-108,8
188	403	SLE Rare	19550	466,4	-30290	34510	-1509000	-52,6
189	403	SLE Rare	-5610,9	1290,5	-30680	92100	353900	-197,6
190	403	SLE Rare	19550	1054,0	-30290	77920	-1509000	-141,5
191	403	SLE Rare	-5593,9	-1065,9	-31480	-82100	351300	158,8
192	403	SLE Rare	19570	-1302,4	-31090	-96270	-1512000	215,0
193	403	SLE Rare	-5600,1	-1063,9	-31080	-81920	352300	158,2
194	403	SLE Rare	19560	-1300,4	-30690	-96090	-1511000	214,4
195	403	SLE Rare	-5602,0	-1007,4	-31340	-67790	352800	157,8
196	403	SLE Rare	19560	-1243,9	-30940	-81960	-1510000	213,9
197	403	SLE Rare	-5603,1	-1126,6	-31330	-96760	352900	159,0
198	403	SLE Rare	19560	-1363,1	-30940	-110900	-1510000	215,2
199	403	SLE Rare	-9600,7	-1024,3	-30750	-79480	649000	148,7
200	403	SLE Rare	32340	-1418,4	-30090	-103100	-2456000	242,4
201	403	SLE Rare	-5606,3	-1061,8	-30680	-81730	353300	157,7
202	403	SLE Rare	19560	-1298,3	-30290	-95910	-1510000	213,8
203	403	SLE Rare	-5604,5	-1650,6	-30680	-125300	353000	246,4
204	403	SLE Rare	19560	-1887,1	-30290	-139400	-1510000	302,6
205	403	SLE Freq.	366,2	-219,0	-28460	-18190	-88030	35,4
206	403	SLE Freq.	372,4	-221,1	-28860	-18380	-88980	36,0
207	403	SLE Freq.	369,1	-182,8	-28890	-8895,8	-88310	35,5
208	403	SLE Freq.	368,3	-262,2	-28890	-28210	-88240	36,3
209	403	SLE Freq.	-4626,8	-172,1	-28540	-15380	281600	24,3
210	403	SLE Freq.	16340	-369,2	-28210	-27190	-1271000	71,1
211	403	SLE Freq.	469,6	-217,6	-28540	-18100	-95120	37,3
212	403	SLE Freq.	314,4	-219,8	-28420	-18240	-84480	34,5
213	403	SLE Freq.	365,8	74,8	-28460	3515,4	-87970	-9
214	403	SLE Freq.	367,1	-513,4	-28460	-39960	-88130	79,8
215	403	SLE Quasi P.	366,2	-219,0	-28460	-18190	-88030	35,4
216	403	SLU A1 sism.	7206,4	4716,1	-40340	365500	-539300	1374,3
217	403	SLU A1 sism.	7326,5	-2399,2	-40200	-169100	-552200	2666,2
218	403	SLU A1 sism.	-6594,1	1961,1	-16720	132700	376200	-2595,3
219	403	SLU A1 sism.	-6474,0	-5154,1	-16570	-401900	363300	-1303,5
220	403	SLU A1 sism.	7212,9	3860,6	-40340	291800	-540100	1201,4
221	403	SLU A1 sism.	7319,9	-1543,8	-40200	-95450	-551500	2839,1

222	403	SLU A1 sism.	-6587,6	1105,7	-16720	59060	375400	-2768,3
223	403	SLU A1 sism.	-6480,6	-4298,7	-16570	-328200	364000	-1130,5
224	403	SLU A1 sism.	7202,4	2314,8	-40360	153200	-538600	-1831,1
225	403	SLU A1 sism.	7322,5	-4800,4	-40210	-381400	-551500	-539,2
226	403	SLU A1 sism.	-6590,2	4362,3	-16700	345000	375500	610,1
227	403	SLU A1 sism.	-6470,1	-2752,9	-16550	-189600	362500	1902,0
228	403	SLU A1 sism.	7209,0	1459,4	-40360	79570	-539300	-2004,0
229	403	SLU A1 sism.	7316,0	-3945,0	-40210	-307700	-550800	-366,3
230	403	SLU A1 sism.	-6583,7	3506,9	-16700	271300	374700	437,2
231	403	SLU A1 sism.	-6476,6	-1897,5	-16560	-116000	363300	2074,9
232	403	SLU A1 sism.	2236,1	12050	-32250	907700	-203800	-1522,3
233	403	SLU A1 sism.	2636,4	-11660	-31750	-874300	-246900	2784,0
234	403	SLU A1 sism.	-1904,1	11230	-25160	837900	70850	-2713,2
235	403	SLU A1 sism.	-1503,8	-12490	-24670	-944100	27760	1593,1
236	403	SLU A1 sism.	2234,9	11330	-32250	844100	-203600	-2483,9
237	403	SLU A1 sism.	2635,2	-12380	-31760	-938000	-246700	1822,4
238	403	SLU A1 sism.	-1902,9	11950	-25160	901600	70630	-1751,5
239	403	SLU A1 sism.	-1502,6	-11770	-24660	-880400	27540	2554,8
240	403	SLU A1 sism.	2257,9	9201,5	-32240	662200	-206300	-2098,7
241	403	SLU A1 sism.	2614,6	-8813,1	-31760	-628800	-244400	3360,4
242	403	SLU A1 sism.	-1882,3	8375,1	-25160	592400	68340	-3289,6
243	403	SLU A1 sism.	-1525,5	-9639,6	-24670	-698600	30260	2169,5
244	403	SLU A1 sism.	2256,7	8481,2	-32250	598500	-206100	-3060,3
245	403	SLU A1 sism.	2613,4	-9533,5	-31760	-692500	-244200	2398,8
246	403	SLU A1 sism.	-1881,1	9095,4	-25150	656100	68120	-2327,9
247	403	SLU A1 sism.	-1524,4	-8919,3	-24670	-634900	30040	3131,2

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 17 Ø 20 = 53,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 5, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
44	403	0	-31296,6	48790,5	3670840	0,806	0,131	0,772	Ok
25	403	0	-42821,9	7997,2	512380	0,110	0,179	0,124	Ok
44	403	-50	-31261,1	30970,3	1394897	0,306	0,131	0,490	Ok
25	403	-50	-42773,4	4788,1	143369,6	0,031	0,179	0,074	Ok
44	403	-100	-31161,6	15464,1	153661,2	0,034	0,130	0,245	Ok
25	403	-100	-42637,3	2155,9	96353,2	0,021	0,178	0,033	Ok
44	403	-150	-31028,2	3579,8	926829,3	0,204	0,130	0,057	Ok
25	403	-150	-42454,7	267,1	204017,5	0,044	0,177	0,004	Ok
42	403	-150	-40383,2	3658,1	917921,1	0,198	0,169	0,057	Ok
44	403	-200	-30921,8	2458,2	1105815	0,243	0,129	0,039	Ok
25	403	-200	-42309,2	577,6	217287	0,047	0,177	0,009	Ok
44	403	-250	-30872,3	3044,3	982906,3	0,216	0,129	0,048	Ok
25	403	-250	-42241,5	624,5	188408,4	0,040	0,176	0,010	Ok
44	403	-300	-30849,0	3033,1	830689,6	0,183	0,129	0,048	Ok
25	403	-300	-42209,6	610,8	157185,8	0,034	0,176	0,009	Ok

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 308 di
378

44	403	-350	-30822,0	2928,5	679032,7	0,149	0,129	0,046	Ok
25	403	-350	-42172,5	581,3	126647,6	0,027	0,176	0,009	Ok
44	403	-400	-30791,1	2765,5	532608,4	0,117	0,129	0,044	Ok
25	403	-400	-42130,4	542,6	97584,2	0,021	0,176	0,008	Ok
44	403	-450	-30753,1	2525,2	394335,3	0,087	0,128	0,040	Ok
25	403	-450	-42078,3	489,7	70452,9	0,015	0,176	0,008	Ok
44	403	-500	-30704,2	2079,8	268074,1	0,059	0,128	0,033	Ok
25	403	-500	-42011,4	395,6	45968,8	0,010	0,176	0,006	Ok
44	403	-550	-30648,2	1607,8	164084	0,036	0,128	0,025	Ok
25	403	-550	-41934,9	299,0	26187,3	0,006	0,175	0,005	Ok
44	403	-600	-30588,9	1182,9	83694,8	0,018	0,128	0,019	Ok
25	403	-600	-41853,7	214,0	11241,9	0,002	0,175	0,003	Ok
42	403	-650	-39729,9	818,9	25365,2	0,005	0,166	0,013	Ok
25	403	-650	-41767,9	142,7	606,8	0,000	0,174	0,002	Ok
44	403	-650	-30526,3	818,6	24551,5	0,005	0,128	0,013	Ok
44	403	-700	-30460,4	519,9	16382,0	0,004	0,127	0,008	Ok
25	403	-700	-41677,8	85,5	6602,1	0,001	0,174	0,001	Ok
44	403	-750	-30391,4	285,4	42376,9	0,009	0,127	0,005	Ok
25	403	-750	-41583,4	41,5	10873,0	0,002	0,174	0,001	Ok
44	403	-800	-30319,3	109,8	56647,6	0,012	0,127	0,002	Ok
25	403	-800	-41484,8	9,5	12948,1	0,003	0,173	0,000	Ok
42	403	-800	-39460,5	112,0	56000,0	0,012	0,165	0,002	Ok
44	403	-850	-30244,3	14,4	62139,9	0,014	0,126	0,000	Ok
25	403	-850	-41382,1	12,5	13420,6	0,003	0,173	0,000	Ok
231	403	-850	-15999,1	16,3	13177,7	0,003	0,067	0,000	Ok
44	403	-900	-30166,4	95,9	61420,1	0,014	0,126	0,002	Ok
25	403	-900	-41275,6	26,2	12796,5	0,003	0,172	0,000	Ok
44	403	-950	-30085,8	143,4	56624,0	0,012	0,126	0,002	Ok
25	403	-950	-41165,2	33,4	11488,3	0,002	0,172	0,001	Ok
44	403	-1000	-30002,4	164,9	49454,6	0,011	0,125	0,003	Ok
25	403	-1000	-41051,2	35,9	9818,2	0,002	0,171	0,001	Ok
44	403	-1050	-29916,4	167,6	41209,6	0,009	0,125	0,003	Ok
25	403	-1050	-40933,6	34,9	8025,7	0,002	0,171	0,001	Ok
44	403	-1100	-29828,0	157,5	32829,7	0,007	0,125	0,002	Ok
25	403	-1100	-40812,5	31,8	6279,3	0,001	0,170	0,000	Ok
44	403	-1150	-29737,1	139,4	24955,7	0,006	0,124	0,002	Ok
25	403	-1150	-40688,1	27,4	4688,9	0,001	0,170	0,000	Ok
44	403	-1200	-29643,8	117,0	17987,0	0,004	0,124	0,002	Ok
25	403	-1200	-40560,5	22,4	3318,2	0,001	0,169	0,000	Ok
44	403	-1250	-29548,3	92,9	12138,7	0,003	0,123	0,001	Ok
25	403	-1250	-40429,8	17,4	2196,1	0,000	0,169	0,000	Ok
44	403	-1300	-29450,6	69,1	7491,9	0,002	0,123	0,001	Ok
25	403	-1300	-40296,2	12,6	1326,7	0,000	0,168	0,000	Ok
44	403	-1350	-29350,8	46,6	4036,3	0,001	0,123	0,001	Ok
25	403	-1350	-40159,7	8,2	697,6	0,000	0,168	0,000	Ok
44	403	-1400	-29249,0	26,2	1704,2	0,000	0,122	0,000	Ok
25	403	-1400	-40020,4	4,4	285,9	0,000	0,167	0,000	Ok
44	403	-1450	-29145,3	7,9	396,6	0,000	0,122	0,000	Ok
25	403	-1450	-39878,5	1,3	63,6	0,000	0,167	0,000	Ok
227	403	-1500	-15416,3	1,1	0	0	0,064	0,000	Ok
25	403	-1500	-39878,5	1,3	0	0	0,167	0,000	Ok
44	403	-1500	-29145,3	7,9	0	0	0,122	0,000	Ok

Sezioni maggiormente sollecitate:

PL.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
403	44	403	0	-31296,6	48790,5	3670840	0,806	0,131	0,772
403	25	403	0	-42821,9	7997,2	512380	0,110	0,179	0,124

S/Su massime:

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 309 di
378

Ver. N/M = 0,806 < 1 Ok
 Ver. (25) = 0,179 < 1 Ok
 Ver. V = 0,772 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
158	403	0	-30346,6	2477155	2551,4	-134,5	Ok
158	403	-50	-30312,3	953112,8	639,8	-52,3	Ok
171	403	-100	-30486,4	89795,8	-163,6	-11,5	Ok
185	403	-100	-30610,7	88591,3	-163,6	-11,5	Ok
204	403	-100	-30161,1	32190,4	-138,3	-9,4	Ok
158	403	-150	-30086,4	608322	-418,2	-33,6	Ok
158	403	-200	-29983,3	731786,8	-491,2	-40,2	Ok
158	403	-250	-29935,3	651534,3	-443,4	-35,9	Ok
158	403	-300	-29912,7	551104	-384,2	-30,5	Ok
158	403	-350	-29886,4	450912,5	-326,9	-25,5	Ok
158	403	-400	-29856,6	354081,3	-275,4	-21,0	Ok
158	403	-450	-29819,6	262568,6	-232,7	-17,4	Ok
158	403	-500	-29772,2	178939,1	-197,7	-14,4	Ok
158	403	-550	-29718,0	109973,1	-168,8	-12,0	Ok
158	403	-600	-29660,5	56580,1	-146,4	-10,2	Ok
150	403	-650	-30575,3	11444,4	-131,4	-8,8	Ok
149	403	-700	-30891,6	4721,2	-129,9	-8,7	Ok
158	403	-750	-29468,9	27460,1	-133,5	-9,1	Ok
158	403	-800	-29399,0	37070,9	-137,2	-9,4	Ok
158	403	-850	-29326,3	40844,5	-138,5	-9,5	Ok
158	403	-900	-29250,8	40478,7	-138,0	-9,5	Ok
158	403	-950	-29172,6	37388,7	-136,4	-9,4	Ok
158	403	-1000	-29091,7	32704,1	-134,1	-9,2	Ok
158	403	-1050	-29008,4	27287,4	-131,5	-9,0	Ok
158	403	-1100	-28922,6	21764,8	-128,9	-8,7	Ok
150	403	-1100	-29875,8	13007,5	-129,2	-8,7	Ok
204	403	-1100	-28870,2	12842,6	-124,9	-8,4	Ok
150	403	-1150	-29784,8	9922,6	-127,5	-8,6	Ok
150	403	-1200	-29691,4	7177,1	-126,0	-8,5	Ok
150	403	-1250	-29595,7	4861,4	-124,6	-8,3	Ok
150	403	-1300	-29497,9	3012,3	-123,5	-8,3	Ok
149	403	-1300	-29867,5	886,4	-123,7	-8,2	Ok
204	403	-1300	-28505,0	2975,7	-119,3	-8,0	Ok
149	403	-1350	-29766,4	464,6	-123,3	-8,2	Ok
149	403	-1400	-29663,1	189,7	-122,9	-8,2	Ok
149	403	-1450	-29557,9	42,0	-122,5	-8,2	Ok
149	403	-1500	-29557,9	0	-122,5	-8,2	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
403	158	403	0	-30346,6	2477155	2551,4	-134,5

Valori massimi SLE condizioni rare:

Ten.massima CLS = 134,5 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 2551,4 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	

210	403	0	-28208,2	1271127	0,073	Ok
210	403	-50	-28176,2	506735,1	0	Ok
209	403	-100	-28412,5	67434,1	0	Ok
210	403	-150	-27966,3	286559,7	0	Ok
210	403	-200	-27870,4	353923,5	0	Ok
210	403	-250	-27825,8	316762	0	Ok
210	403	-300	-27804,8	268648,4	0	Ok
210	403	-350	-27780,4	220449,6	0	Ok
210	403	-400	-27752,7	173720	0	Ok
210	403	-450	-27718,3	129447,1	0	Ok
210	403	-500	-27674,3	88886,8	0	Ok
210	403	-550	-27623,9	55304,4	0	Ok
210	403	-600	-27570,4	29184,7	0	Ok
210	403	-650	-27513,9	9831,1	0	Ok
207	403	-700	-28120	2540,1	0	Ok
210	403	-750	-27392,3	12391,7	0	Ok
210	403	-800	-27327,4	17294,3	0	Ok
210	403	-850	-27259,8	19331,3	0	Ok
210	403	-900	-27189,6	19323,0	0	Ok
210	403	-950	-27116,9	17956,3	0	Ok
210	403	-1000	-27041,7	15782,0	0	Ok
210	403	-1050	-26964,3	13222,5	0	Ok
210	403	-1100	-26884,5	10586,4	0	Ok
210	403	-1150	-26802,6	8086,1	0	Ok
210	403	-1200	-26718,5	5856,4	0	Ok
207	403	-1200	-27366,2	144,1	0	Ok
214	403	-1200	-26954,9	216,9	0	Ok
207	403	-1250	-27278	74,3	0	Ok
207	403	-1300	-27187,8	35,0	0	Ok
207	403	-1350	-27095,7	18,2	0	Ok
207	403	-1400	-27001,7	10,8	0	Ok
207	403	-1450	-26906,0	4,2	0	Ok
207	403	-1500	-26906,0	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
403	210	403	0	-28208,2	1271127	0,073

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0,073 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	403	0	-28457,6	89885,8	-11,0	0	Ok
215	403	-50	-28425,4	68742,3	-10,2	0	Ok
215	403	-100	-28334,9	46914,0	-9,5	0	Ok
215	403	-150	-28213,6	28457,6	-8,8	0	Ok
215	403	-200	-28116,9	16636,3	-8,3	0	Ok
215	403	-250	-28071,9	11755,9	-8,2	0	Ok
215	403	-300	-28050,7	8657,3	-8,0	0	Ok
215	403	-350	-28026,1	5962,6	-7,9	0	Ok
215	403	-400	-27998,0	3686,0	-7,9	0	Ok
215	403	-450	-27963,4	1925,3	-7,8	0	Ok
215	403	-500	-27919,0	1328,2	-7,7	0	Ok
215	403	-550	-27868,1	1867,6	-7,8	0	Ok
215	403	-600	-27814,2	2343,9	-7,8	0	Ok
215	403	-650	-27757,2	2548,0	-7,8	0	Ok
215	403	-700	-27697,3	2523,4	-7,7	0	Ok

215	403	-750	-27634,5	2339,8	-7,7	0	Ok
215	403	-800	-27569,0	2060,3	-7,7	0	Ok
215	403	-850	-27500,8	1735,4	-7,7	0	Ok
215	403	-900	-27430,0	1402,9	-7,6	0	Ok
215	403	-950	-27356,6	1088,9	-7,6	0	Ok
215	403	-1000	-27280,8	809,5	-7,5	0	Ok
215	403	-1050	-27202,7	573,6	-7,5	0	Ok
215	403	-1100	-27122,2	384,0	-7,5	0	Ok
215	403	-1150	-27039,6	239,7	-7,5	0	Ok
215	403	-1200	-26954,8	136,8	-7,4	0	Ok
215	403	-1250	-26867,9	70,1	-7,4	0	Ok
215	403	-1300	-26779,1	33,5	-7,4	0	Ok
215	403	-1350	-26688,4	18,4	-7,4	0	Ok
215	403	-1400	-26595,8	11,2	-7,3	0	Ok
215	403	-1450	-26501,5	4,3	-7,3	0	Ok
215	403	-1500	-26501,5	0	-7,3	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
403	215	403	0	-28457,6	89885,8	-11,0	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 11,0 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 1116

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1116	SLU STR.	2748,4	6294,7	-51240	594300	-254000	0
2	1116	SLU STR.	-9362,9	-13900	-51090	-870700	646900	0
3	1116	SLU STR.	2780,5	5925,8	-39640	533700	-244500	0
4	1116	SLU STR.	-9330,9	-14270	-39490	-931300	656400	0
5	1116	SLU STR.	2751,9	6271,8	-50670	590600	-254100	0
6	1116	SLU STR.	-9359,4	-13920	-50520	-874400	646800	0
7	1116	SLU STR.	2784,0	5902,9	-39070	530000	-244600	0
8	1116	SLU STR.	-9327,4	-14290	-38920	-935000	656200	0
9	1116	SLU STR.	2750,8	6225,6	-51790	592000	-253400	0
10	1116	SLU STR.	-9360,5	-13970	-51640	-873100	647500	0
11	1116	SLU STR.	2782,9	5856,8	-40180	531400	-244000	0
12	1116	SLU STR.	-9328,4	-14340	-40030	-933600	656900	0
13	1116	SLU STR.	2758,1	6230,3	-50190	576100	-254500	0
14	1116	SLU STR.	-9353,2	-13970	-50040	-888900	646400	0
15	1116	SLU STR.	2790,2	5861,4	-38580	515500	-245000	0
16	1116	SLU STR.	-9321,2	-14340	-38440	-949500	655800	0
17	1116	SLU STR.	4677,8	9454,7	-50120	819500	-397200	0
18	1116	SLU STR.	-15510	-24210	-49880	-1622000	1104000	0
19	1116	SLU STR.	4709,9	9085,8	-38520	758900	-387800	0
20	1116	SLU STR.	-15480	-24580	-38270	-1683000	1114000	0
21	1116	SLU STR.	2755,4	6248,9	-50100	586900	-254200	0
22	1116	SLU STR.	-9355,9	-13950	-49950	-878100	646600	0
23	1116	SLU STR.	2787,4	5880	-38500	526400	-244800	0
24	1116	SLU STR.	-9323,9	-14320	-38350	-938600	656100	0
25	1116	SLU STR.	3225,6	6287,0	-51130	593400	-286800	0
26	1116	SLU STR.	-8885,7	-13910	-50980	-871600	614100	0

27	1116	SLU STR.	3257,7	5918,1	-39530	532800	-277400	0
28	1116	SLU STR.	-8853,7	-14280	-39380	-932200	623500	0
29	1116	SLU STR.	3229,1	6264,1	-50560	589700	-286900	0
30	1116	SLU STR.	-8882,2	-13930	-50410	-875300	613900	0
31	1116	SLU STR.	3261,2	5895,2	-38960	529100	-277500	0
32	1116	SLU STR.	-8850,2	-14300	-38810	-935900	623400	0
33	1116	SLU STR.	3228,0	6218,0	-51680	591100	-286300	0
34	1116	SLU STR.	-8883,3	-13980	-51530	-874000	614600	0
35	1116	SLU STR.	3260,1	5849,1	-40070	530500	-276800	0
36	1116	SLU STR.	-8851,3	-14350	-39920	-934500	624000	0
37	1116	SLU STR.	3235,3	6222,6	-50080	575200	-287300	0
38	1116	SLU STR.	-8876	-13970	-49930	-889800	613500	0
39	1116	SLU STR.	3267,4	5853,7	-38470	514600	-277900	0
40	1116	SLU STR.	-8844,0	-14340	-38330	-950400	623000	0
41	1116	SLU STR.	5155,0	9447,1	-50010	818600	-430100	0
42	1116	SLU STR.	-15030	-24210	-49770	-1623000	1071000	0
43	1116	SLU STR.	5187,1	9078,2	-38410	758000	-420600	0
44	1116	SLU STR.	-15000	-24580	-38160	-1684000	1081000	0
45	1116	SLU STR.	3550,7	6236,1	-49920	585400	-309000	0
46	1116	SLU STR.	-8560,6	-13960	-49770	-879600	591900	0
47	1116	SLU STR.	3582,8	5867,2	-38310	524900	-299500	0
48	1116	SLU STR.	-8528,6	-14330	-38160	-940100	601300	0
49	1116	SLU STR.	3232,6	6241,2	-49990	586000	-287100	0
50	1116	SLU STR.	-8878,7	-13960	-49840	-879000	613800	0
51	1116	SLU STR.	3264,6	5872,3	-38390	525500	-277600	0
52	1116	SLU STR.	-8846,7	-14320	-38240	-939500	623200	0
53	1116	SLU STR.	2509,8	6298,5	-51300	594700	-237500	0
54	1116	SLU STR.	-9601,5	-13900	-51150	-870300	663300	0
55	1116	SLU STR.	2541,9	5929,6	-39690	534200	-228100	0
56	1116	SLU STR.	-9569,5	-14270	-39540	-930800	672800	0
57	1116	SLU STR.	2513,3	6275,6	-50730	591100	-237700	0
58	1116	SLU STR.	-9598,0	-13920	-50580	-873900	663200	0
59	1116	SLU STR.	2545,4	5906,7	-39120	530500	-228200	0
60	1116	SLU STR.	-9566,0	-14290	-38970	-934500	672600	0
61	1116	SLU STR.	2512,2	6229,5	-51840	592400	-237000	0
62	1116	SLU STR.	-9599,1	-13970	-51690	-872600	663900	0
63	1116	SLU STR.	2544,3	5860,6	-40240	531800	-227500	0
64	1116	SLU STR.	-9567,0	-14340	-40090	-933200	673300	0
65	1116	SLU STR.	2519,5	6234,1	-50240	576500	-238100	0
66	1116	SLU STR.	-9591,8	-13960	-50090	-888500	662800	0
67	1116	SLU STR.	2551,6	5865,2	-38640	516000	-228600	0
68	1116	SLU STR.	-9559,8	-14330	-38490	-949000	672200	0
69	1116	SLU STR.	4439,2	9458,6	-50180	819900	-380800	0
70	1116	SLU STR.	-15750	-24200	-49930	-1622000	1121000	0
71	1116	SLU STR.	4471,3	9089,7	-38570	759400	-371400	0
72	1116	SLU STR.	-15710	-24570	-38330	-1682000	1130000	0
73	1116	SLU STR.	2516,8	6252,7	-50160	587400	-237800	0
74	1116	SLU STR.	-9594,5	-13940	-50010	-877600	663100	0
75	1116	SLU STR.	2548,8	5883,8	-38550	526800	-228400	0
76	1116	SLU STR.	-9562,5	-14310	-38400	-938200	672500	0
77	1116	SLU STR.	2357,7	6255,3	-50190	587700	-226900	0
78	1116	SLU STR.	-9753,6	-13940	-50040	-877300	674000	0
79	1116	SLU STR.	2389,8	5886,4	-38590	527100	-217400	0
80	1116	SLU STR.	-9721,5	-14310	-38440	-937900	683500	0
81	1116	SLU STR.	2590,1	7288,3	-49760	632400	-233400	0
82	1116	SLU STR.	-9521,2	-12910	-49610	-832600	667400	0
83	1116	SLU STR.	2622,2	6919,4	-38160	571800	-224000	0
84	1116	SLU STR.	-9489,2	-13280	-38010	-893200	676900	0
85	1116	SLU STR.	2593,6	7265,4	-49190	628700	-233600	0
86	1116	SLU STR.	-9517,7	-12930	-49040	-836300	667300	0

87	1116	SLU STR.	2625,7	6896,5	-37590	568100	-224100	0
88	1116	SLU STR.	-9485,7	-13300	-37440	-896900	676700	0
89	1116	SLU STR.	2592,6	7219,3	-50310	630000	-232900	0
90	1116	SLU STR.	-9518,8	-12980	-50160	-835000	668000	0
91	1116	SLU STR.	2624,6	6850,4	-38700	569500	-223400	0
92	1116	SLU STR.	-9486,7	-13350	-38560	-895500	677400	0
93	1116	SLU STR.	2599,8	7223,9	-48710	614200	-234000	0
94	1116	SLU STR.	-9511,5	-12970	-48560	-850800	666900	0
95	1116	SLU STR.	2631,9	6855	-37110	553600	-224500	0
96	1116	SLU STR.	-9479,4	-13340	-36960	-911400	676400	0
97	1116	SLU STR.	4519,6	10450	-48650	857600	-376700	0
98	1116	SLU STR.	-15670	-23210	-48400	-1584000	1125000	0
99	1116	SLU STR.	4551,6	10080	-37040	797000	-367300	0
100	1116	SLU STR.	-15630	-23580	-36790	-1645000	1134000	0
101	1116	SLU STR.	2597,1	7242,5	-48620	625000	-233700	0
102	1116	SLU STR.	-9514,2	-12950	-48470	-840000	667200	0
103	1116	SLU STR.	2629,2	6873,6	-37020	564500	-224300	0
104	1116	SLU STR.	-9482,2	-13320	-36870	-900500	676600	0
105	1116	SLU STR.	2491,6	7905,0	-47640	650400	-220000	0
106	1116	SLU STR.	-9619,7	-12290	-47490	-814600	680800	0
107	1116	SLU STR.	2523,6	7536,1	-36030	589900	-210600	0
108	1116	SLU STR.	-9587,7	-12660	-35880	-875100	690300	0
109	1116	SLU STR.	2907,1	5281,3	-52740	552700	-274500	0
110	1116	SLU STR.	-9204,2	-14920	-52590	-912300	626400	0
111	1116	SLU STR.	2939,2	4912,4	-41130	492100	-265100	0
112	1116	SLU STR.	-9172,2	-15280	-40980	-972900	635800	0
113	1116	SLU STR.	2910,6	5258,4	-52160	549000	-274600	0
114	1116	SLU STR.	-9200,7	-14940	-52020	-916000	626200	0
115	1116	SLU STR.	2942,6	4889,5	-40560	488500	-265200	0
116	1116	SLU STR.	-9168,7	-15310	-40410	-976500	635700	0
117	1116	SLU STR.	2909,5	5212,2	-53280	550400	-274000	0
118	1116	SLU STR.	-9201,8	-14980	-53130	-914600	626900	0
119	1116	SLU STR.	2941,6	4843,4	-41680	489800	-264500	0
120	1116	SLU STR.	-9169,8	-15350	-41530	-975200	636400	0
121	1116	SLU STR.	2916,8	5216,9	-51680	534500	-275000	0
122	1116	SLU STR.	-9194,5	-14980	-51530	-930500	625800	0
123	1116	SLU STR.	2948,9	4848,0	-40080	473900	-265600	0
124	1116	SLU STR.	-9162,5	-15350	-39930	-991100	635300	0
125	1116	SLU STR.	4836,5	8441,3	-51620	777900	-417800	0
126	1116	SLU STR.	-15350	-25220	-51370	-1664000	1084000	0
127	1116	SLU STR.	4868,6	8072,4	-40010	717400	-408300	0
128	1116	SLU STR.	-15320	-25590	-39770	-1724000	1093000	0
129	1116	SLU STR.	2914,1	5235,5	-51590	545400	-274800	0
130	1116	SLU STR.	-9197,2	-14960	-51450	-919600	626100	0
131	1116	SLU STR.	2946,1	4866,6	-39990	484800	-265300	0
132	1116	SLU STR.	-9165,2	-15330	-39840	-980200	635500	0
133	1116	SLU STR.	3019,9	4559,9	-52590	517700	-288500	0
134	1116	SLU STR.	-9091,4	-15640	-52440	-947300	612400	0
135	1116	SLU STR.	3051,9	4191,0	-40990	457100	-279000	0
136	1116	SLU STR.	-9059,4	-16010	-40840	-1008000	621800	0
137	1116	SLE Rare	1821,8	4343,5	-38320	420200	-173600	0
138	1116	SLE Rare	-6252,5	-9121,1	-38220	-556500	427000	0
139	1116	SLE Rare	1824,1	4328,2	-37940	417700	-173600	0
140	1116	SLE Rare	-6250,1	-9136,3	-37840	-558900	426900	0
141	1116	SLE Rare	1823,4	4297,4	-38680	418600	-173200	0
142	1116	SLE Rare	-6250,8	-9167,1	-38580	-558000	427400	0
143	1116	SLE Rare	1828,2	4300,5	-37620	408100	-173900	0
144	1116	SLE Rare	-6246,0	-9164	-37520	-568600	426700	0
145	1116	SLE Rare	3108,1	6450,2	-37570	570300	-269100	0
146	1116	SLE Rare	-10350	-15990	-37410	-1057000	731900	0

147	1116	SLE Rare	1826,4	4312,9	-37560	415300	-173700	0
148	1116	SLE Rare	-6247,8	-9151,6	-37460	-561400	426800	0
149	1116	SLE Rare	2139,9	4338,3	-38240	419600	-195500	0
150	1116	SLE Rare	-5934,3	-9126,2	-38150	-557100	405100	0
151	1116	SLE Rare	2142,2	4323,1	-37860	417100	-195500	0
152	1116	SLE Rare	-5932,0	-9141,4	-37770	-559500	405000	0
153	1116	SLE Rare	2141,5	4292,3	-38610	418000	-195100	0
154	1116	SLE Rare	-5932,7	-9172,2	-38510	-558600	405500	0
155	1116	SLE Rare	2146,4	4295,4	-37540	407500	-195800	0
156	1116	SLE Rare	-5927,8	-9169,1	-37440	-569200	404800	0
157	1116	SLE Rare	3426,2	6445,0	-37500	569700	-291000	0
158	1116	SLE Rare	-10030	-16000	-37330	-1058000	710000	0
159	1116	SLE Rare	2356,7	4304,4	-37440	414300	-210200	0
160	1116	SLE Rare	-5717,6	-9160,1	-37340	-562400	390300	0
161	1116	SLE Rare	2144,6	4307,8	-37480	414700	-195600	0
162	1116	SLE Rare	-5929,7	-9156,7	-37380	-562000	404900	0
163	1116	SLE Rare	1662,7	4346	-38350	420500	-162600	0
164	1116	SLE Rare	-6411,5	-9118,5	-38260	-556200	438000	0
165	1116	SLE Rare	1665,0	4330,7	-37970	418000	-162700	0
166	1116	SLE Rare	-6409,2	-9133,8	-37870	-558600	437900	0
167	1116	SLE Rare	1664,3	4300,0	-38720	418900	-162200	0
168	1116	SLE Rare	-6409,9	-9164,5	-38620	-557700	438300	0
169	1116	SLE Rare	1669,2	4303,1	-37650	408400	-163000	0
170	1116	SLE Rare	-6405,0	-9161,4	-37550	-568300	437600	0
171	1116	SLE Rare	2949,0	6452,7	-37610	570600	-258100	0
172	1116	SLE Rare	-10510	-15990	-37440	-1057000	742800	0
173	1116	SLE Rare	1667,4	4315,5	-37590	415600	-162800	0
174	1116	SLE Rare	-6406,9	-9149,0	-37490	-561100	437800	0
175	1116	SLE Rare	1561,3	4317,2	-37620	415800	-155500	0
176	1116	SLE Rare	-6512,9	-9147,3	-37520	-560900	445100	0
177	1116	SLE Rare	1716,3	5005,9	-37330	445600	-159900	0
178	1116	SLE Rare	-6358,0	-8458,6	-37230	-531100	440700	0
179	1116	SLE Rare	1718,6	4990,6	-36950	443100	-160000	0
180	1116	SLE Rare	-6355,6	-8473,9	-36850	-533500	440600	0
181	1116	SLE Rare	1717,9	4959,9	-37700	444000	-159500	0
182	1116	SLE Rare	-6356,4	-8504,7	-37600	-532600	441100	0
183	1116	SLE Rare	1722,7	4962,9	-36630	433500	-160200	0
184	1116	SLE Rare	-6351,5	-8501,6	-36530	-543200	440400	0
185	1116	SLE Rare	3002,5	7112,6	-36590	595700	-255400	0
186	1116	SLE Rare	-10450	-15330	-36420	-1032000	745600	0
187	1116	SLE Rare	1720,9	4975,4	-36570	440700	-160100	0
188	1116	SLE Rare	-6353,3	-8489,2	-36470	-536000	440500	0
189	1116	SLE Rare	1650,6	5417,0	-35910	457600	-150900	0
190	1116	SLE Rare	-6423,7	-8047,5	-35820	-519000	449600	0
191	1116	SLE Rare	1927,6	3667,9	-39310	392500	-187200	0
192	1116	SLE Rare	-6146,7	-9796,6	-39210	-584200	413300	0
193	1116	SLE Rare	1929,9	3652,6	-38930	390000	-187300	0
194	1116	SLE Rare	-6144,3	-9811,9	-38830	-586600	413200	0
195	1116	SLE Rare	1929,2	3621,8	-39680	390900	-186900	0
196	1116	SLE Rare	-6145,0	-9842,7	-39580	-585700	413700	0
197	1116	SLE Rare	1934,0	3624,9	-38610	380300	-187600	0
198	1116	SLE Rare	-6140,2	-9839,6	-38510	-596300	413000	0
199	1116	SLE Rare	3213,8	5774,6	-38570	542600	-282800	0
200	1116	SLE Rare	-10240	-16670	-38400	-1085000	718200	0
201	1116	SLE Rare	1932,2	3637,3	-38550	387600	-187400	0
202	1116	SLE Rare	-6142	-9827,2	-38450	-589100	413100	0
203	1116	SLE Rare	2002,8	3186,9	-39220	369100	-196600	0
204	1116	SLE Rare	-6071,5	-10280	-39120	-607600	404000	0
205	1116	SLE Freq.	-92,0	1129,1	-35580	185500	-31330	0
206	1116	SLE Freq.	-94,4	1144,3	-35960	188000	-31240	0

207	1116	SLE Freq.	-94,1	1118,7	-36330	187700	-30970	0
208	1116	SLE Freq.	-90,8	1120,8	-35620	180700	-31450	0
209	1116	SLE Freq.	1510,0	3800,6	-35600	379300	-150500	0
210	1116	SLE Freq.	-5218,5	-7419,8	-35510	-434600	350000	0
211	1116	SLE Freq.	14,0	1127,4	-35550	185300	-38630	0
212	1116	SLE Freq.	-145,1	1129,9	-35590	185600	-27680	0
213	1116	SLE Freq.	-127,2	1349,9	-35250	194000	-26770	0
214	1116	SLE Freq.	-56,8	903,9	-35910	176300	-35900	0
215	1116	SLE Quasi P.	-92,0	1129,1	-35580	185500	-31330	0
216	1116	SLU A1 sism.	6663,7	1282,0	-25860	42210	-428200	0
217	1116	SLU A1 sism.	8489,8	-1987,6	-37510	33950	-658600	0
218	1116	SLU A1 sism.	-8673,8	4245,7	-33640	337100	596000	0
219	1116	SLU A1 sism.	-6847,8	976,1	-45300	328800	365500	0
220	1116	SLU A1 sism.	6674,4	1598,2	-25880	68170	-435700	0
221	1116	SLU A1 sism.	8479,1	-2303,8	-37490	7998,7	-651100	0
222	1116	SLU A1 sism.	-8663,2	4561,9	-33660	363000	588400	0
223	1116	SLU A1 sism.	-6858,5	660,0	-45270	302800	373100	0
224	1116	SLU A1 sism.	5317,0	3116	-24970	197900	-325000	0
225	1116	SLU A1 sism.	7143,0	-153,7	-36630	189600	-555500	0
226	1116	SLU A1 sism.	-7327,1	2411,8	-34520	181400	492900	0
227	1116	SLU A1 sism.	-5501,0	-857,9	-46180	173100	262400	0
228	1116	SLU A1 sism.	5327,6	3432,2	-24990	223800	-332600	0
229	1116	SLU A1 sism.	7132,3	-469,8	-36610	163700	-548000	0
230	1116	SLU A1 sism.	-7316,4	2727,9	-34550	207300	485300	0
231	1116	SLU A1 sism.	-5511,7	-1174,0	-46160	147200	269900	0
232	1116	SLU A1 sism.	-834,8	6133,9	-14980	155000	199200	0
233	1116	SLU A1 sism.	5252,0	-4764,9	-53840	127500	-569100	0
234	1116	SLU A1 sism.	-5436,0	7023,0	-17310	243500	506400	0
235	1116	SLU A1 sism.	650,7	-3875,8	-56170	216000	-261800	0
236	1116	SLU A1 sism.	-1238,8	6684,1	-14710	201700	230100	0
237	1116	SLU A1 sism.	4847,9	-4214,7	-53570	174200	-538100	0
238	1116	SLU A1 sism.	-5032	6472,8	-17580	196800	475500	0
239	1116	SLU A1 sism.	1054,7	-4426,0	-56440	169300	-292800	0
240	1116	SLU A1 sism.	-799,2	7187,7	-15050	241600	174000	0
241	1116	SLU A1 sism.	5216,4	-5818,7	-53760	41000	-543900	0
242	1116	SLU A1 sism.	-5400,5	8076,8	-17390	330000	481200	0
243	1116	SLU A1 sism.	615,1	-4929,6	-56100	129500	-236700	0
244	1116	SLU A1 sism.	-1203,3	7737,9	-14790	288300	204900	0
245	1116	SLU A1 sism.	4812,4	-5268,5	-53500	87700	-513000	0
246	1116	SLU A1 sism.	-4996,5	7526,7	-17650	283300	450300	0
247	1116	SLU A1 sism.	1019,2	-5479,8	-56360	82750	-267600	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 10 Ø 20 = 31,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 10, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
128	1116	0	-39766,3	29822,8	2041620	0,640	0,166	0,784	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

EdilAlta

Anaergia
Fueling a Sustainable World

OWAC
ENGINEERING COMPANY

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 316 di 378

239	1116	0	-56439,8	4549,9	338179	0,099	0,236	0,120	Ok
100	1116	-50	-36752,2	17536,6	684342,9	0,217	0,154	0,461	Ok
239	1116	-50	-56375,8	1804,9	424162,6	0,125	0,236	0,047	Ok
128	1116	-50	-39721,2	18276,7	660608,9	0,207	0,166	0,480	Ok
235	1116	-100	-55932,1	1443,8	447926,9	0,132	0,234	0,038	Ok
239	1116	-100	-56196,4	1437,2	445306,9	0,131	0,235	0,038	Ok
128	1116	-100	-39594,8	8594,9	258447,6	0,081	0,165	0,226	Ok
128	1116	-150	-39425,3	1471,7	685362,9	0,215	0,165	0,039	Ok
239	1116	-150	-55955,8	1702,9	390895,6	0,115	0,234	0,045	Ok
237	1116	-150	-53114,7	1753,7	366438	0,109	0,222	0,046	Ok
128	1116	-200	-39290,1	1901,4	757962	0,238	0,164	0,050	Ok
239	1116	-200	-55763,9	1257,8	309069,9	0,091	0,233	0,033	Ok
126	1116	-200	-50755,5	1953,2	764903	0,230	0,212	0,051	Ok
128	1116	-250	-39227,2	2146,7	662926,8	0,208	0,164	0,056	Ok
239	1116	-250	-55674,7	1008,4	246506,5	0,073	0,233	0,026	Ok
126	1116	-250	-50674,3	2175,9	667287,1	0,200	0,212	0,057	Ok
128	1116	-300	-39197,6	2112,8	555598,9	0,175	0,164	0,056	Ok
239	1116	-300	-55632,7	936,3	196178,9	0,058	0,232	0,025	Ok
126	1116	-300	-50636,0	2137,5	558502,2	0,168	0,212	0,056	Ok
128	1116	-350	-39163,2	2020,6	449966,7	0,141	0,164	0,053	Ok
239	1116	-350	-55583,9	853,5	149462,4	0,044	0,232	0,022	Ok
126	1116	-350	-50591,6	2041,2	451636,7	0,136	0,211	0,054	Ok
128	1116	-400	-39124,1	1893,8	348941,4	0,110	0,163	0,050	Ok
239	1116	-400	-55528,3	768,4	106908,1	0,032	0,232	0,020	Ok
126	1116	-400	-50541,0	1910,9	349582,2	0,105	0,211	0,050	Ok
128	1116	-450	-39075,7	1716,0	254258,8	0,080	0,163	0,045	Ok
239	1116	-450	-55459,6	667,0	68676,3	0,020	0,232	0,018	Ok
126	1116	-450	-50478,5	1729,4	254048,4	0,076	0,211	0,045	Ok
128	1116	-500	-39013,6	1395,9	168467	0,053	0,163	0,037	Ok
239	1116	-500	-55371,5	503,7	35734,7	0,011	0,231	0,013	Ok
126	1116	-500	-50398,3	1403,9	167591,7	0,050	0,211	0,037	Ok
128	1116	-550	-38942,5	1063,3	98689,6	0,031	0,163	0,028	Ok
239	1116	-550	-55270,6	348,5	12099,3	0,004	0,231	0,009	Ok
126	1116	-550	-50306,4	1066,9	97415,8	0,029	0,210	0,028	Ok
72	1116	-600	-37460,2	745,1	45382,9	0,014	0,156	0,020	Ok
239	1116	-600	-55163,6	221,4	9994,4	0,003	0,230	0,006	Ok
126	1116	-600	-50209,0	769,1	44114,0	0,013	0,210	0,020	Ok
235	1116	-650	-54791,7	113,9	19813,1	0,006	0,229	0,003	Ok
239	1116	-650	-55050,6	122,3	19479,6	0,006	0,230	0,003	Ok
128	1116	-650	-38787,5	519,8	7387,1	0,002	0,162	0,014	Ok
235	1116	-700	-54673,4	43,2	25210,2	0,007	0,228	0,001	Ok
239	1116	-700	-54931,8	49,7	25125,7	0,007	0,229	0,001	Ok
128	1116	-700	-38703,8	318,4	19025,8	0,006	0,162	0,008	Ok
128	1116	-750	-38616,1	162,6	34881,8	0,011	0,161	0,004	Ok
239	1116	-750	-54807,3	19,1	27239,0	0,008	0,229	0,001	Ok
128	1116	-800	-38524,5	48,0	42986	0,014	0,161	0,001	Ok
239	1116	-800	-54677,4	44,3	26787,9	0,008	0,228	0,001	Ok
100	1116	-800	-35644,9	51,3	38253,2	0,012	0,149	0,001	Ok
128	1116	-850	-38429,2	32,3	45360,1	0,014	0,161	0,001	Ok
239	1116	-850	-54542,1	62,8	24649,3	0,007	0,228	0,002	Ok
235	1116	-850	-54285,6	63,3	24293,6	0,007	0,227	0,002	Ok
128	1116	-900	-38330,3	82,5	43762,2	0,014	0,160	0,002	Ok
239	1116	-900	-54401,7	71,1	21536,5	0,006	0,227	0,002	Ok
126	1116	-900	-49515,5	86,0	44426,8	0,013	0,207	0,002	Ok
128	1116	-950	-38227,8	110,3	39638,8	0,013	0,160	0,003	Ok
239	1116	-950	-54256,2	71,6	17996,3	0,005	0,227	0,002	Ok
126	1116	-950	-49383,2	113,2	40132,9	0,012	0,206	0,003	Ok
128	1116	-1000	-38121,9	120,9	34127,5	0,011	0,159	0,003	Ok
239	1116	-1000	-54105,9	66,8	14424,5	0,004	0,226	0,002	Ok
126	1116	-1000	-49246,3	123,3	34476,5	0,010	0,206	0,003	Ok

128	1116	-1050	-38012,6	119,4	28082,5	0,009	0,159	0,003	Ok
239	1116	-1050	-53950,9	58,8	11088,7	0,003	0,225	0,002	Ok
126	1116	-1050	-49105,2	121,3	28313,6	0,009	0,205	0,003	Ok
128	1116	-1100	-37900,2	109,9	22110,9	0,007	0,158	0,003	Ok
239	1116	-1100	-53791,3	49,2	8151,9	0,002	0,225	0,001	Ok
126	1116	-1100	-48960,0	111,2	22251,3	0,007	0,205	0,003	Ok
128	1116	-1150	-37784,7	95,6	16615,4	0,005	0,158	0,003	Ok
239	1116	-1150	-53627,4	39,1	5696,1	0,002	0,224	0,001	Ok
126	1116	-1150	-48810,8	96,5	16689,9	0,005	0,204	0,003	Ok
128	1116	-1200	-37666,2	78,9	11835,8	0,004	0,157	0,002	Ok
239	1116	-1200	-53459,2	29,5	3743,3	0,001	0,223	0,001	Ok
126	1116	-1200	-48657,7	79,5	11866,0	0,004	0,203	0,002	Ok
128	1116	-1250	-37544,9	61,7	7889,1	0,002	0,157	0,002	Ok
239	1116	-1250	-53287,0	20,8	2273,0	0,001	0,223	0,001	Ok
126	1116	-1250	-48501,0	62,0	7893,0	0,002	0,203	0,002	Ok
128	1116	-1300	-37420,7	45,1	4803,8	0,002	0,156	0,001	Ok
239	1116	-1300	-53110,8	13,4	1236,7	0,000	0,222	0,000	Ok
126	1116	-1300	-48340,6	45,2	4795,3	0,001	0,202	0,001	Ok
128	1116	-1350	-37294,0	29,8	2548,9	0,001	0,156	0,001	Ok
239	1116	-1350	-52930,9	7,5	568,4	0,000	0,221	0,000	Ok
128	1116	-1400	-37164,6	16,3	1056,7	0,000	0,155	0,000	Ok
239	1116	-1400	-52747,3	3,3	192,9	0,000	0,220	0,000	Ok
128	1116	-1450	-37032,8	4,8	239,3	0,000	0,155	0,000	Ok
239	1116	-1450	-52560,3	0,6	30,7	0,000	0,220	0,000	Ok
236	1116	-1500	-13700,9	1,0	0	0	0,057	0,000	Ok
239	1116	-1500	-52560,3	0,6	0	0	0,220	0,000	Ok
128	1116	-1500	-37032,8	4,8	0	0	0,155	0,000	Ok

Sezioni maggiormente sollecitate:

PL.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
	1116	128	1116	0	-39766,3	29822,8	0,640	0,166	0,784
	1116	239	1116	0	-56439,8	4549,9	0,099	0,236	0,120

S/Su massime:

Ver. N/M = 0,640 < 1 Ok

Ver. (25) = 0,236 < 1 Ok

Ver. V = 0,784 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
200	1116	0	-38404	1301307	1338,4	-88,6	Ok
172	1116	0	-37444,4	1292055	1348,8	-88,1	Ok
186	1116	-50	-36381,2	413968	-356,4	-27,8	Ok
172	1116	-50	-37402,0	407285,7	-356,5	-27,7	Ok
204	1116	-50	-39074,1	183015,2	-259,7	-19,0	Ok
200	1116	-100	-38238,4	200701,7	-263,8	-19,5	Ok
200	1116	-150	-38074,7	472065,2	-394,9	-31,1	Ok
200	1116	-200	-37944,1	512696	-418,8	-33,4	Ok
200	1116	-250	-37883,4	446589,6	-379,7	-29,8	Ok
200	1116	-300	-37854,9	373486,1	-340,8	-26,3	Ok
200	1116	-350	-37821,6	301751,4	-306,9	-23,3	Ok
200	1116	-400	-37783,8	233305,5	-276,2	-20,6	Ok
200	1116	-450	-37737,1	169277,9	-247,5	-18,1	Ok
200	1116	-500	-37677,1	111375,9	-221,4	-15,8	Ok
200	1116	-550	-37608,5	64433,9	-200,2	-13,9	Ok

200	1116	-600	-37535,6	28833,5	-184,0	-12,5	Ok
195	1116	-650	-38700,7	6944,0	-179,5	-12,0	Ok
196	1116	-700	-38520,8	10915,0	-180,5	-12,1	Ok
196	1116	-750	-38433,5	17067,2	-182,8	-12,3	Ok
200	1116	-800	-37204,8	29780,2	-182,9	-12,5	Ok
196	1116	-800	-38342,4	19975,1	-183,7	-12,4	Ok
204	1116	-800	-37896,9	20863,1	-182,0	-12,3	Ok
200	1116	-850	-37112,8	31150,5	-183,1	-12,5	Ok
196	1116	-850	-38247,6	20514,0	-183,5	-12,4	Ok
204	1116	-850	-37803,1	21382,4	-181,9	-12,3	Ok
200	1116	-900	-37017,2	29882,7	-182,1	-12,4	Ok
196	1116	-900	-38149,1	19440,9	-182,6	-12,4	Ok
204	1116	-900	-37705,8	20235,7	-180,9	-12,2	Ok
200	1116	-950	-36918,2	26952,0	-180,3	-12,3	Ok
196	1116	-950	-38047,1	17372,9	-181,2	-12,2	Ok
204	1116	-950	-37605,0	18063,6	-179,5	-12,1	Ok
196	1116	-1000	-37941,7	14789,9	-179,5	-12,1	Ok
196	1116	-1050	-37833,0	12047,6	-177,8	-12,0	Ok
196	1116	-1100	-37721,1	9394,6	-176,1	-11,8	Ok
196	1116	-1150	-37606,1	6991,8	-174,5	-11,7	Ok
196	1116	-1200	-37488,2	4930,6	-173,1	-11,6	Ok
196	1116	-1250	-37367,4	3251,0	-171,8	-11,5	Ok
195	1116	-1300	-37337,0	493,4	-170,2	-11,3	Ok
195	1116	-1350	-37210,5	289,6	-169,6	-11,3	Ok
195	1116	-1400	-37081,4	134,2	-169,0	-11,3	Ok
195	1116	-1450	-36950,0	35,3	-168,4	-11,2	Ok
195	1116	-1500	-36950,0	0	-168,4	-11,2	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
1116	200	1116	0	-38404	1301307	1338,4	-88,6
1116	172	1116	0	-37444,4	1292055	1348,8	-88,1

Valori massimi SLE condizioni rare:

Ten.massima CLS = 88,6 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 1348,8 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1116	0	-35513,1	558003,2	0	Ok
209	1116	-50	-35555,3	212878,4	0	Ok
210	1116	-100	-35360,0	131620,3	0	Ok
210	1116	-150	-35208,6	246441,4	0	Ok
210	1116	-200	-35087,9	256662,5	0	Ok
210	1116	-250	-35031,8	221399,1	0	Ok
210	1116	-300	-35005,3	184202,1	0	Ok
210	1116	-350	-34974,6	147954,8	0	Ok
210	1116	-400	-34939,6	113559,7	0	Ok
210	1116	-450	-34896,4	81529,5	0	Ok
210	1116	-500	-34840,9	52700,4	0	Ok
210	1116	-550	-34777,5	29513,0	0	Ok
210	1116	-600	-34710,1	12117,3	0	Ok
207	1116	-600	-35503,9	4874,0	0	Ok
214	1116	-600	-35096,1	4665,3	0	Ok
207	1116	-650	-35431,2	4819,2	0	Ok
207	1116	-700	-35354,8	4489,2	0	Ok
210	1116	-750	-34486,0	13489,7	0	Ok
210	1116	-800	-34404,2	15749,3	0	Ok
210	1116	-850	-34319,1	16153,2	0	Ok

210	1116	-900	-34230,7	15295,1	0	Ok
210	1116	-950	-34139,2	13659,2	0	Ok
210	1116	-1000	-34044,6	11622,0	0	Ok
210	1116	-1050	-33947,1	9462,5	0	Ok
210	1116	-1100	-33846,7	7375,4	0	Ok
207	1116	-1100	-34620,7	530,5	0	Ok
214	1116	-1100	-34223,0	652,1	0	Ok
207	1116	-1150	-34515,2	326,1	0	Ok
207	1116	-1200	-34407,0	192,8	0	Ok
207	1116	-1250	-34296,1	118,0	0	Ok
207	1116	-1300	-34182,8	80,5	0	Ok
207	1116	-1350	-34066,9	55,8	0	Ok
207	1116	-1400	-33948,8	32,0	0	Ok
207	1116	-1450	-33828,4	10,7	0	Ok
207	1116	-1500	-33828,4	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1116	210	1116	0	-35513,1	558003,2	0

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	1116	0	-35576,0	188135,1	-18,2	0	Ok
215	1116	-50	-35535,7	132830,2	-16,0	0	Ok
215	1116	-100	-35422,6	82300,3	-14,0	0	Ok
215	1116	-150	-35270,9	44244,3	-12,4	0	Ok
215	1116	-200	-35150,0	23017,5	-11,6	0	Ok
215	1116	-250	-35093,7	15708,7	-11,3	0	Ok
215	1116	-300	-35067,3	11459,4	-11,1	0	Ok
215	1116	-350	-35036,5	8002,3	-11,0	0	Ok
215	1116	-400	-35001,4	5459,3	-10,8	0	Ok
215	1116	-450	-34958,2	4136,9	-10,8	0	Ok
215	1116	-500	-34902,6	4154,2	-10,8	0	Ok
215	1116	-550	-34839	4593,4	-10,8	0	Ok
215	1116	-600	-34771,6	4811,3	-10,8	0	Ok
215	1116	-650	-34700,3	4715,2	-10,7	0	Ok
215	1116	-700	-34625,4	4367,8	-10,7	0	Ok
215	1116	-750	-34547,0	3858,6	-10,6	0	Ok
215	1116	-800	-34465,1	3269,2	-10,6	0	Ok
215	1116	-850	-34379,8	2663,9	-10,6	0	Ok
215	1116	-900	-34291,3	2089,1	-10,5	0	Ok
215	1116	-950	-34199,6	1574,5	-10,4	0	Ok
215	1116	-1000	-34104,9	1137,1	-10,4	0	Ok
215	1116	-1050	-34007,1	783,1	-10,3	0	Ok
215	1116	-1100	-33906,6	511,9	-10,3	0	Ok
215	1116	-1150	-33803,2	317,9	-10,3	0	Ok
215	1116	-1200	-33697,2	192,3	-10,2	0	Ok
215	1116	-1250	-33588,7	121,4	-10,2	0	Ok
215	1116	-1300	-33477,6	84,0	-10,2	0	Ok
215	1116	-1350	-33364,2	57,7	-10,1	0	Ok
215	1116	-1400	-33248,5	32,6	-10,1	0	Ok
215	1116	-1450	-33130,6	10,7	-10,1	0	Ok
215	1116	-1500	-33130,6	0	-10,1	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1116	215	1116	0	-35576,0	188135,1	-18,2	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 18,2 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 1165

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1165	SLU STR.	-3134,9	6247,1	-47170	589000	185200	0
2	1165	SLU STR.	9688,2	-13900	-47040	-871800	-765400	0
3	1165	SLU STR.	-3114,6	5883,3	-36530	528900	194900	0
4	1165	SLU STR.	9708,5	-14260	-36400	-931800	-755600	0
5	1165	SLU STR.	-3133,0	6224,2	-46600	585300	185100	0
6	1165	SLU STR.	9690,2	-13920	-46480	-875400	-765400	0
7	1165	SLU STR.	-3112,7	5860,3	-35970	525200	194900	0
8	1165	SLU STR.	9710,5	-14290	-35840	-935500	-755700	0
9	1165	SLU STR.	-3129,7	6176,0	-47750	586300	185200	0
10	1165	SLU STR.	9693,5	-13970	-47630	-874400	-765400	0
11	1165	SLU STR.	-3109,4	5812,2	-37120	526300	195000	0
12	1165	SLU STR.	9713,8	-14330	-36990	-934500	-755600	0
13	1165	SLU STR.	-3131,0	6176,7	-46130	569900	185200	0
14	1165	SLU STR.	9692,2	-13970	-46010	-890800	-765300	0
15	1165	SLU STR.	-3110,7	5812,8	-35500	509800	195000	0
16	1165	SLU STR.	9712,4	-14330	-35370	-950900	-755600	0
17	1165	SLU STR.	-5166,4	9399,1	-46060	813500	336000	0
18	1165	SLU STR.	16210	-24180	-45850	-1621000	-1248000	0
19	1165	SLU STR.	-5146,1	9035,3	-35430	753400	345700	0
20	1165	SLU STR.	16230	-24540	-35220	-1681000	-1239000	0
21	1165	SLU STR.	-3131,0	6201,2	-46040	581600	185100	0
22	1165	SLU STR.	9692,2	-13950	-45920	-879100	-765500	0
23	1165	SLU STR.	-3110,7	5837,4	-35410	521500	194800	0
24	1165	SLU STR.	9712,4	-14310	-35280	-939200	-755700	0
25	1165	SLU STR.	-2660,1	6259,5	-47290	590700	152400	0
26	1165	SLU STR.	10160	-13890	-47160	-870000	-798200	0
27	1165	SLU STR.	-2639,8	5895,7	-36660	530600	162100	0
28	1165	SLU STR.	10180	-14250	-36530	-930100	-788400	0
29	1165	SLU STR.	-2658,2	6236,6	-46730	587000	152300	0
30	1165	SLU STR.	10160	-13910	-46600	-873700	-798200	0
31	1165	SLU STR.	-2637,9	5872,7	-36090	526900	162100	0
32	1165	SLU STR.	10190	-14270	-35970	-933800	-788500	0
33	1165	SLU STR.	-2654,9	6188,4	-47880	588000	152400	0
34	1165	SLU STR.	10170	-13960	-47750	-872700	-798100	0
35	1165	SLU STR.	-2634,6	5824,6	-37240	528000	162200	0
36	1165	SLU STR.	10190	-14320	-37120	-932700	-788400	0
37	1165	SLU STR.	-2656,2	6189,1	-46260	571600	152400	0
38	1165	SLU STR.	10170	-13960	-46130	-889100	-798100	0
39	1165	SLU STR.	-2635,9	5825,2	-35620	511600	162200	0
40	1165	SLU STR.	10190	-14320	-35500	-949100	-788400	0
41	1165	SLU STR.	-4691,6	9411,5	-46190	815200	303200	0
42	1165	SLU STR.	16680	-24170	-45980	-1619000	-1281000	0
43	1165	SLU STR.	-4671,3	9047,7	-35550	755100	312900	0

44	1165	SLU STR.	16700	-24530	-35340	-1679000	-1271000	0
45	1165	SLU STR.	-2339,7	6221,9	-46250	584500	130400	0
46	1165	SLU STR.	10480	-13920	-46120	-876300	-820100	0
47	1165	SLU STR.	-2319,4	5858,0	-35620	524400	140200	0
48	1165	SLU STR.	10500	-14290	-35490	-936300	-810400	0
49	1165	SLU STR.	-2656,2	6213,6	-46170	583300	152300	0
50	1165	SLU STR.	10170	-13930	-46040	-877400	-798300	0
51	1165	SLU STR.	-2635,9	5849,8	-35530	523300	162000	0
52	1165	SLU STR.	10190	-14300	-35410	-937500	-788500	0
53	1165	SLU STR.	-3372,3	6240,9	-47100	588100	201600	0
54	1165	SLU STR.	9450,8	-13910	-46980	-872600	-749000	0
55	1165	SLU STR.	-3352,0	5877,1	-36470	528100	211300	0
56	1165	SLU STR.	9471,1	-14270	-36340	-932700	-739200	0
57	1165	SLU STR.	-3370,3	6218,0	-46540	584400	201500	0
58	1165	SLU STR.	9452,8	-13930	-46410	-876300	-749000	0
59	1165	SLU STR.	-3350,1	5854,1	-35910	524400	211300	0
60	1165	SLU STR.	9473,1	-14290	-35780	-936300	-739300	0
61	1165	SLU STR.	-3367,1	6169,8	-47690	585400	201600	0
62	1165	SLU STR.	9456,1	-13980	-47560	-875300	-749000	0
63	1165	SLU STR.	-3346,8	5806,0	-37060	525400	211400	0
64	1165	SLU STR.	9476,4	-14340	-36930	-935300	-739200	0
65	1165	SLU STR.	-3368,4	6170,5	-46070	569000	201600	0
66	1165	SLU STR.	9454,8	-13980	-45940	-891700	-748900	0
67	1165	SLU STR.	-3348,1	5806,6	-35440	509000	211400	0
68	1165	SLU STR.	9475,0	-14340	-35310	-951700	-739200	0
69	1165	SLU STR.	-5403,8	9392,9	-46000	812600	352400	0
70	1165	SLU STR.	15970	-24180	-45790	-1622000	-1232000	0
71	1165	SLU STR.	-5383,5	9029,1	-35360	752500	362100	0
72	1165	SLU STR.	15990	-24550	-35150	-1682000	-1222000	0
73	1165	SLU STR.	-3368,4	6195,0	-45980	580700	201500	0
74	1165	SLU STR.	9454,8	-13950	-45850	-880000	-749100	0
75	1165	SLU STR.	-3348,1	5831,2	-35340	520700	211200	0
76	1165	SLU STR.	9475,0	-14320	-35220	-940000	-739300	0
77	1165	SLU STR.	-3526,7	6190,9	-45940	580200	212400	0
78	1165	SLU STR.	9296,5	-13960	-45810	-880600	-738100	0
79	1165	SLU STR.	-3506,4	5827,1	-35300	520100	222200	0
80	1165	SLU STR.	9316,8	-14320	-35180	-940600	-728400	0
81	1165	SLU STR.	-3261,9	7315,7	-46360	643300	201800	0
82	1165	SLU STR.	9561,2	-12830	-46230	-817400	-748700	0
83	1165	SLU STR.	-3241,6	6951,8	-35720	583300	211600	0
84	1165	SLU STR.	9581,5	-13190	-35600	-877400	-739000	0
85	1165	SLU STR.	-3260,0	7292,7	-45800	639600	201800	0
86	1165	SLU STR.	9563,2	-12850	-45670	-821100	-748800	0
87	1165	SLU STR.	-3239,7	6928,9	-35160	579600	211500	0
88	1165	SLU STR.	9583,5	-13220	-35030	-881100	-739000	0
89	1165	SLU STR.	-3256,7	7244,6	-46940	640700	201800	0
90	1165	SLU STR.	9566,5	-12900	-46820	-820100	-748700	0
91	1165	SLU STR.	-3236,4	6880,7	-36310	580600	211600	0
92	1165	SLU STR.	9586,8	-13270	-36180	-880100	-739000	0
93	1165	SLU STR.	-3258,0	7245,2	-45320	624300	201800	0
94	1165	SLU STR.	9565,2	-12900	-45200	-836500	-748700	0
95	1165	SLU STR.	-3237,7	6881,4	-34690	564200	211600	0
96	1165	SLU STR.	9585,4	-13270	-34560	-896500	-739000	0
97	1165	SLU STR.	-5293,4	10470	-45250	867800	352600	0
98	1165	SLU STR.	16080	-23110	-45040	-1567000	-1232000	0
99	1165	SLU STR.	-5273,1	10100	-34620	807800	362300	0
100	1165	SLU STR.	16100	-23470	-34410	-1627000	-1222000	0
101	1165	SLU STR.	-3258,0	7269,8	-45230	635900	201700	0
102	1165	SLU STR.	9565,2	-12880	-45110	-824800	-748900	0
103	1165	SLU STR.	-3237,7	6905,9	-34600	575900	211500	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 322 di
378

104	1165	SLU STR.	9585,4	-13240	-34470	-884800	-739100	0
105	1165	SLU STR.	-3342,7	7982,1	-44690	672200	212800	0
106	1165	SLU STR.	9480,5	-12160	-44570	-788500	-737800	0
107	1165	SLU STR.	-3322,4	7618,3	-34060	612100	222500	0
108	1165	SLU STR.	9500,8	-12530	-33930	-848600	-728000	0
109	1165	SLU STR.	-3005,5	5153,7	-47980	530400	168300	0
110	1165	SLU STR.	9817,6	-14990	-47860	-930300	-782300	0
111	1165	SLU STR.	-2985,2	4789,8	-37350	470300	178000	0
112	1165	SLU STR.	9837,9	-15360	-37220	-990400	-772500	0
113	1165	SLU STR.	-3003,6	5130,7	-47420	526700	168200	0
114	1165	SLU STR.	9819,6	-15020	-47300	-934000	-782300	0
115	1165	SLU STR.	-2983,3	4766,9	-36790	466600	178000	0
116	1165	SLU STR.	9839,9	-15380	-36660	-994100	-772600	0
117	1165	SLU STR.	-3000,3	5082,5	-48570	527700	168300	0
118	1165	SLU STR.	9822,9	-15060	-48440	-933000	-782200	0
119	1165	SLU STR.	-2980,0	4718,7	-37940	467700	178100	0
120	1165	SLU STR.	9843,2	-15430	-37810	-993100	-772500	0
121	1165	SLU STR.	-3001,6	5083,2	-46950	511300	168300	0
122	1165	SLU STR.	9821,5	-15060	-46820	-949400	-782200	0
123	1165	SLU STR.	-2981,3	4719,4	-36320	451300	178100	0
124	1165	SLU STR.	9841,8	-15430	-36190	-1009000	-772500	0
125	1165	SLU STR.	-5037,0	8305,6	-46880	754900	319100	0
126	1165	SLU STR.	16330	-25270	-46670	-1680000	-1265000	0
127	1165	SLU STR.	-5016,7	7941,8	-36250	694800	328800	0
128	1165	SLU STR.	16360	-25640	-36030	-1740000	-1255000	0
129	1165	SLU STR.	-3001,6	5107,8	-46860	523000	168200	0
130	1165	SLU STR.	9821,5	-15040	-46730	-937700	-782400	0
131	1165	SLU STR.	-2981,3	4743,9	-36230	463000	177900	0
132	1165	SLU STR.	9841,8	-15400	-36100	-997800	-772600	0
133	1165	SLU STR.	-2915,3	4378,8	-47410	483900	156900	0
134	1165	SLU STR.	9907,8	-15770	-47280	-976800	-793600	0
135	1165	SLU STR.	-2895,1	4014,9	-36770	423900	166700	0
136	1165	SLU STR.	9928,1	-16130	-36640	-1037000	-783900	0
137	1165	SLE Rare	-2097,2	4310,4	-35190	416500	119200	0
138	1165	SLE Rare	6451,6	-9120,7	-35100	-557300	-514500	0
139	1165	SLE Rare	-2095,8	4295,1	-34810	414100	119200	0
140	1165	SLE Rare	6452,9	-9136	-34730	-559700	-514500	0
141	1165	SLE Rare	-2093,7	4263	-35580	414800	119200	0
142	1165	SLE Rare	6455,1	-9168,1	-35500	-559100	-514500	0
143	1165	SLE Rare	-2094,5	4263,5	-34500	403800	119200	0
144	1165	SLE Rare	6454,2	-9167,7	-34420	-570000	-514500	0
145	1165	SLE Rare	-3451,5	6411,7	-34450	566200	219700	0
146	1165	SLE Rare	10800	-15970	-34310	-1057000	-836500	0
147	1165	SLE Rare	-2094,5	4279,8	-34440	411600	119100	0
148	1165	SLE Rare	6454,2	-9151,3	-34350	-562200	-514600	0
149	1165	SLE Rare	-1780,6	4318,7	-35270	417700	97340	0
150	1165	SLE Rare	6768,1	-9112,4	-35190	-556100	-536400	0
151	1165	SLE Rare	-1779,3	4303,4	-34900	415200	97300	0
152	1165	SLE Rare	6769,4	-9127,7	-34810	-558600	-536400	0
153	1165	SLE Rare	-1777,1	4271,3	-35660	415900	97340	0
154	1165	SLE Rare	6771,6	-9159,8	-35580	-557900	-536400	0
155	1165	SLE Rare	-1778,0	4271,7	-34580	405000	97360	0
156	1165	SLE Rare	6770,8	-9159,4	-34500	-568800	-536300	0
157	1165	SLE Rare	-3135,0	6420	-34540	567300	197900	0
158	1165	SLE Rare	11110	-15970	-34400	-1056000	-858300	0
159	1165	SLE Rare	-1567,0	4293,6	-34580	413500	82690	0
160	1165	SLE Rare	6981,8	-9137,5	-34490	-560300	-551000	0
161	1165	SLE Rare	-1778,0	4288,1	-34520	412800	97270	0
162	1165	SLE Rare	6770,8	-9143,0	-34440	-561000	-536400	0
163	1165	SLE Rare	-2255,4	4306,3	-35150	416000	130100	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 323 di
378

164	1165	SLE Rare	6293,4	-9124,8	-35060	-557900	-503600	0
165	1165	SLE Rare	-2254,1	4291,0	-34770	413500	130100	0
166	1165	SLE Rare	6294,7	-9140,1	-34690	-560300	-503600	0
167	1165	SLE Rare	-2251,9	4258,9	-35540	414200	130100	0
168	1165	SLE Rare	6296,9	-9172,2	-35450	-559600	-503600	0
169	1165	SLE Rare	-2252,8	4259,3	-34460	403200	130200	0
170	1165	SLE Rare	6296,0	-9171,8	-34370	-570600	-503500	0
171	1165	SLE Rare	-3609,8	6407,6	-34410	565600	230700	0
172	1165	SLE Rare	10640	-15980	-34270	-1057000	-825500	0
173	1165	SLE Rare	-2252,8	4275,7	-34400	411000	130100	0
174	1165	SLE Rare	6296,0	-9155,4	-34310	-562800	-503600	0
175	1165	SLE Rare	-2358,3	4272,9	-34370	410700	137400	0
176	1165	SLE Rare	6190,5	-9158,2	-34290	-563200	-496400	0
177	1165	SLE Rare	-2181,8	5022,8	-34650	452800	130300	0
178	1165	SLE Rare	6366,9	-8408,3	-34560	-521000	-503400	0
179	1165	SLE Rare	-2180,5	5007,5	-34270	450300	130200	0
180	1165	SLE Rare	6368,3	-8423,6	-34190	-523500	-503500	0
181	1165	SLE Rare	-2178,3	4975,4	-35040	451000	130300	0
182	1165	SLE Rare	6370,5	-8455,8	-34960	-522800	-503400	0
183	1165	SLE Rare	-2179,2	4975,8	-33960	440100	130300	0
184	1165	SLE Rare	6369,6	-8455,3	-33880	-533800	-503400	0
185	1165	SLE Rare	-3536,2	7124,1	-33910	602400	230800	0
186	1165	SLE Rare	10710	-15260	-33770	-1021000	-825400	0
187	1165	SLE Rare	-2179,2	4992,2	-33900	447900	130200	0
188	1165	SLE Rare	6369,6	-8438,9	-33820	-526000	-503500	0
189	1165	SLE Rare	-2235,7	5467,1	-33540	472000	137600	0
190	1165	SLE Rare	6313,1	-7964,0	-33460	-501800	-496100	0
191	1165	SLE Rare	-2010,9	3581,4	-35730	377500	107900	0
192	1165	SLE Rare	6537,9	-9849,7	-35650	-596300	-525800	0
193	1165	SLE Rare	-2009,6	3566,1	-35360	375000	107900	0
194	1165	SLE Rare	6539,2	-9865,0	-35270	-598800	-525800	0
195	1165	SLE Rare	-2007,4	3534,0	-36130	375700	107900	0
196	1165	SLE Rare	6541,4	-9897,1	-36040	-598100	-525800	0
197	1165	SLE Rare	-2008,3	3534,5	-35050	364800	108000	0
198	1165	SLE Rare	6540,5	-9896,6	-34960	-609000	-525700	0
199	1165	SLE Rare	-3365,2	5682,8	-35000	527100	208500	0
200	1165	SLE Rare	10880	-16700	-34860	-1096000	-847700	0
201	1165	SLE Rare	-2008,3	3550,8	-34980	372600	107900	0
202	1165	SLE Rare	6540,5	-9880,3	-34900	-601300	-525800	0
203	1165	SLE Rare	-1950,8	3064,8	-35350	346500	100400	0
204	1165	SLE Rare	6598,0	-10370	-35260	-627300	-533300	0
205	1165	SLE Freq.	-59	1110,9	-32440	183500	-32010	0
206	1165	SLE Freq.	-60,3	1126,2	-32820	186000	-31980	0
207	1165	SLE Freq.	-58,4	1099,7	-33200	185600	-31960	0
208	1165	SLE Freq.	-59	1100,0	-32480	178300	-31950	0
209	1165	SLE Freq.	-1755,2	3775,8	-32460	376700	93720	0
210	1165	SLE Freq.	5368,8	-7416,8	-32390	-434800	-434400	0
211	1165	SLE Freq.	46,5	1113,6	-32470	183900	-39300	0
212	1165	SLE Freq.	-111,8	1109,5	-32430	183300	-28370	0
213	1165	SLE Freq.	-87,2	1348,3	-32260	195600	-28320	0
214	1165	SLE Freq.	-30,2	867,9	-32620	170500	-35770	0
215	1165	SLE Quasi P.	-59	1110,9	-32440	183500	-32010	0
216	1165	SLU A1 sism.	6721,3	4431,2	-33770	409500	-435400	0
217	1165	SLU A1 sism.	8465,9	-491,9	-39820	173300	-650800	0
218	1165	SLU A1 sism.	-8583,9	2713,6	-25070	193700	586800	0
219	1165	SLU A1 sism.	-6839,3	-2209,4	-31120	-42450	371400	0
220	1165	SLU A1 sism.	6798,6	4136,1	-33540	382500	-449100	0
221	1165	SLU A1 sism.	8388,5	-196,8	-40050	200300	-637100	0
222	1165	SLU A1 sism.	-8506,5	2418,5	-24840	166700	573100	0
223	1165	SLU A1 sism.	-6916,6	-1914,4	-31350	-15450	385000	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 324 di
378

224	1165	SLU A1 sism.	5430,8	3532,6	-32600	311400	-338500	0
225	1165	SLU A1 sism.	7175,4	-1390,4	-38650	75230	-553900	0
226	1165	SLU A1 sism.	-7293,4	3612,1	-26240	291800	489900	0
227	1165	SLU A1 sism.	-5548,8	-1310,9	-32280	55630	274500	0
228	1165	SLU A1 sism.	5508,1	3237,5	-32370	284400	-352200	0
229	1165	SLU A1 sism.	7098,1	-1095,4	-38880	102200	-540200	0
230	1165	SLU A1 sism.	-7216,1	3317,1	-26000	264800	476200	0
231	1165	SLU A1 sism.	-5626,1	-1015,8	-32510	82620	288200	0
232	1165	SLU A1 sism.	-670,9	9573,5	-23670	609500	173700	0
233	1165	SLU A1 sism.	5144,5	-6836,5	-43830	-177700	-544300	0
234	1165	SLU A1 sism.	-5262,5	9058,2	-21060	544800	480300	0
235	1165	SLU A1 sism.	552,9	-7351,8	-41220	-242500	-237700	0
236	1165	SLU A1 sism.	-1058,1	9303,9	-23320	580100	202700	0
237	1165	SLU A1 sism.	4757,3	-7106,1	-43480	-207200	-515300	0
238	1165	SLU A1 sism.	-4875,3	9327,8	-21410	574200	451200	0
239	1165	SLU A1 sism.	940,1	-7082,2	-41570	-213000	-266700	0
240	1165	SLU A1 sism.	-413,2	8589,9	-22900	519500	128100	0
241	1165	SLU A1 sism.	4886,7	-5852,9	-44600	-87750	-498700	0
242	1165	SLU A1 sism.	-5004,7	8074,7	-20290	454800	434700	0
243	1165	SLU A1 sism.	295,2	-6368,2	-41990	-152500	-192100	0
244	1165	SLU A1 sism.	-800,3	8320,4	-22550	490100	157100	0
245	1165	SLU A1 sism.	4499,6	-6122,5	-44250	-117200	-469700	0
246	1165	SLU A1 sism.	-4617,6	8344,2	-20640	484200	405600	0
247	1165	SLU A1 sism.	682,3	-6098,6	-42340	-123100	-221100	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 10 Ø 20 = 31,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 10, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
128	1165	0	-36035,0	30408,8	2145394	0,683	0,151	0,799	Ok
117	1165	0	-48571,3	5902,0	553903,3	0,168	0,203	0,155	Ok
128	1165	-50	-35994,1	18835,5	739176	0,235	0,150	0,495	Ok
117	1165	-50	-48516,3	4075,4	285910,9	0,087	0,203	0,107	Ok
239	1165	-100	-41387,6	1436,8	315881	0,098	0,173	0,038	Ok
117	1165	-100	-48361,9	2336,9	113714,8	0,034	0,202	0,061	Ok
128	1165	-100	-35879,6	9033,9	233125,4	0,074	0,150	0,237	Ok
128	1165	-150	-35726,0	1762,8	666543,9	0,212	0,149	0,046	Ok
117	1165	-150	-48154,8	894,9	91225,8	0,028	0,201	0,024	Ok
128	1165	-200	-35603,5	1832,9	749673,2	0,239	0,149	0,048	Ok
117	1165	-200	-47989,7	264,8	107298,5	0,033	0,200	0,007	Ok
126	1165	-200	-46110,5	1864,8	751612,3	0,230	0,193	0,049	Ok
128	1165	-250	-35546,5	2109,3	658248,2	0,210	0,148	0,055	Ok
117	1165	-250	-47912,9	290,7	97188,2	0,029	0,200	0,008	Ok
126	1165	-250	-46036,7	2121,9	658691,6	0,201	0,192	0,056	Ok
128	1165	-300	-35519,7	2081,8	552823	0,176	0,148	0,055	Ok
117	1165	-300	-47876,7	290,8	83138,9	0,025	0,200	0,008	Ok

126	1165	-300	-46002,0	2091,2	552652,4	0,169	0,192	0,055	Ok
128	1165	-350	-35488,5	1995,4	448768,2	0,143	0,148	0,052	Ok
117	1165	-350	-47834,7	282,5	68994,2	0,021	0,200	0,007	Ok
126	1165	-350	-45961,6	2002,1	448143,5	0,137	0,192	0,053	Ok
128	1165	-400	-35453,0	1873,5	349032,1	0,111	0,148	0,049	Ok
117	1165	-400	-47786,9	268,6	55240,4	0,017	0,200	0,007	Ok
126	1165	-400	-45915,6	1878,1	348086,3	0,106	0,192	0,049	Ok
128	1165	-450	-35409,2	1700,8	255397,5	0,081	0,148	0,045	Ok
117	1165	-450	-47727,8	247,3	42225,5	0,013	0,199	0,006	Ok
126	1165	-450	-45858,8	1703,5	254239,2	0,078	0,192	0,045	Ok
128	1165	-500	-35352,9	1387,7	170415	0,054	0,148	0,036	Ok
117	1165	-500	-47651,9	207,1	30378,7	0,009	0,199	0,005	Ok
126	1165	-500	-45785,9	1387,8	169151,9	0,052	0,191	0,036	Ok
128	1165	-550	-35288,5	1061,0	101114,4	0,032	0,147	0,028	Ok
117	1165	-550	-47565,1	163,9	20631,7	0,006	0,199	0,004	Ok
128	1165	-600	-35220,1	770,6	48234,6	0,015	0,147	0,020	Ok
117	1165	-600	-47473,0	124,6	13235,0	0,004	0,198	0,003	Ok
241	1165	-650	-43498,6	149,1	13188,4	0,004	0,182	0,004	Ok
117	1165	-650	-47375,8	90,6	8254,8	0,003	0,198	0,002	Ok
128	1165	-650	-35148,0	524,3	10735,1	0,003	0,147	0,014	Ok
239	1165	-700	-40456,2	77,0	18338,5	0,006	0,169	0,002	Ok
117	1165	-700	-47273,5	62,6	5834,1	0,002	0,197	0,002	Ok
128	1165	-700	-35072,2	324,5	17443,8	0,006	0,147	0,009	Ok
128	1165	-750	-34992,7	169,5	33258,8	0,011	0,146	0,004	Ok
117	1165	-750	-47166,4	40,8	5490,5	0,002	0,197	0,001	Ok
128	1165	-800	-34909,7	55,8	41589,5	0,013	0,146	0,001	Ok
117	1165	-800	-47054,6	25,4	5835,6	0,002	0,197	0,001	Ok
128	1165	-850	-34823,4	29,0	44233,7	0,014	0,145	0,001	Ok
117	1165	-850	-46938,2	16,7	6022,6	0,002	0,196	0,000	Ok
247	1165	-850	-40913,0	44,1	20603,2	0,006	0,171	0,001	Ok
128	1165	-900	-34733,7	78,1	42899,6	0,014	0,145	0,002	Ok
117	1165	-900	-46817,3	14,4	5867,5	0,002	0,196	0,000	Ok
126	1165	-900	-44984,0	80,5	43210,8	0,013	0,188	0,002	Ok
128	1165	-950	-34640,8	106,4	39012,4	0,012	0,145	0,003	Ok
117	1165	-950	-46692,1	15,2	5417,2	0,002	0,195	0,000	Ok
126	1165	-950	-44863,7	108,2	39211,9	0,012	0,187	0,003	Ok
128	1165	-1000	-34544,8	117,8	33700,3	0,011	0,144	0,003	Ok
117	1165	-1000	-46562,8	16,1	4770,4	0,001	0,195	0,000	Ok
126	1165	-1000	-44739,5	119,1	33814,6	0,010	0,187	0,003	Ok
128	1165	-1050	-34445,9	117,1	27814,2	0,009	0,144	0,003	Ok
117	1165	-1050	-46429,4	16,0	4022,9	0,001	0,194	0,000	Ok
126	1165	-1050	-44611,3	117,9	27866,9	0,009	0,186	0,003	Ok
128	1165	-1100	-34344,0	108,3	21962,5	0,007	0,143	0,003	Ok
117	1165	-1100	-46292,1	15,1	3252,5	0,001	0,193	0,000	Ok
126	1165	-1100	-44479,3	108,8	21973,7	0,007	0,186	0,003	Ok
128	1165	-1150	-34239,3	94,5	16551,3	0,005	0,143	0,002	Ok
117	1165	-1150	-46151,0	13,5	2515,8	0,001	0,193	0,000	Ok
126	1165	-1150	-44343,8	94,8	16537,4	0,005	0,185	0,002	Ok
128	1165	-1200	-34132,0	78,4	11825,5	0,004	0,143	0,002	Ok
117	1165	-1200	-46006,3	11,6	1850,5	0,001	0,192	0,000	Ok
126	1165	-1200	-44204,7	78,4	11799,4	0,004	0,185	0,002	Ok
128	1165	-1250	-34022,0	61,5	7907,7	0,003	0,142	0,002	Ok
117	1165	-1250	-45858,0	9,4	1278,9	0,000	0,192	0,000	Ok
128	1165	-1300	-33909,5	45,2	4832,5	0,002	0,142	0,001	Ok
117	1165	-1300	-45706,4	7,2	811,8	0,000	0,191	0,000	Ok
128	1165	-1350	-33794,6	30,0	2574,9	0,001	0,141	0,001	Ok
117	1165	-1350	-45551,6	5,1	452,3	0,000	0,190	0,000	Ok
128	1165	-1400	-33677,4	16,6	1073,0	0,000	0,141	0,000	Ok
117	1165	-1400	-45393,6	3,0	199,3	0,000	0,190	0,000	Ok
128	1165	-1450	-33558	4,9	244,9	0,000	0,140	0,000	Ok

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PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 326 di
378

117	1165	-1450	-45232,6	1,0	49,5	0,000	0,189	0,000	Ok
242	1165	-1500	-18893,4	1,5	0	0	0,079	0,000	Ok
117	1165	-1500	-45232,6	1,0	0	0	0,189	0,000	Ok
128	1165	-1500	-33558	4,9	0	0	0,140	0,000	Ok

Sezioni maggiormente sollecitate:

PL.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
1165	128	1165	0	-36035,0	30408,8	2145394	0,683	0,151	0,799
1165	117	1165	0	-48571,3	5902,0	553903,3	0,168	0,203	0,155

S/Su massime:

Ver. N/M = 0,683 < 1 Ok

Ver. (25) = 0,203 < 1 Ok

Ver. V = 0,799 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
200	1165	0	-34857,5	1385492	1603,9	-95,3	Ok
200	1165	-50	-34818,0	468664	-383,2	-30,5	Ok
200	1165	-100	-34707,2	180691,3	-238,7	-17,6	Ok
200	1165	-150	-34558,6	452683,5	-372,7	-29,6	Ok
200	1165	-200	-34440,1	501772,6	-402,9	-32,4	Ok
200	1165	-250	-34385	439242,4	-364,2	-28,8	Ok
200	1165	-300	-34359,1	368317,1	-324,4	-25,2	Ok
200	1165	-350	-34328,9	298475,3	-289,7	-22,1	Ok
200	1165	-400	-34294,6	231653,8	-259,6	-19,5	Ok
200	1165	-450	-34252,2	169015,1	-231,5	-17,0	Ok
200	1165	-500	-34197,7	112258,9	-205,9	-14,8	Ok
200	1165	-550	-34135,4	66106,5	-185,1	-13,0	Ok
200	1165	-600	-34069,3	31054,8	-169,1	-11,6	Ok
195	1165	-650	-35236,3	6095,9	-163,3	-10,9	Ok
196	1165	-700	-35078,2	9761,0	-164,3	-11,0	Ok
196	1165	-750	-34998,7	15605,6	-166,5	-11,2	Ok
200	1165	-800	-33769,0	28387,9	-166,6	-11,4	Ok
196	1165	-800	-34915,7	18564,4	-167,4	-11,3	Ok
204	1165	-800	-34162,9	19293,1	-164,3	-11,1	Ok
200	1165	-850	-33685,5	29966,1	-166,9	-11,4	Ok
196	1165	-850	-34829,4	19267,9	-167,4	-11,3	Ok
204	1165	-850	-34078,4	20014,2	-164,3	-11,1	Ok
200	1165	-900	-33598,8	28926,8	-166,0	-11,3	Ok
196	1165	-900	-34739,7	18401,8	-166,6	-11,3	Ok
204	1165	-900	-33990,6	19108,2	-163,5	-11,1	Ok
200	1165	-950	-33508,9	26216,8	-164,4	-11,2	Ok
196	1165	-950	-34646,8	16547,7	-165,3	-11,2	Ok
204	1165	-950	-33899,7	17178,4	-162,2	-11,0	Ok
196	1165	-1000	-34550,8	14165,0	-163,8	-11,1	Ok
196	1165	-1050	-34451,8	11598,2	-162,2	-10,9	Ok
196	1165	-1100	-34349,9	9090,5	-160,6	-10,8	Ok
196	1165	-1150	-34245,2	6801,3	-159,1	-10,7	Ok
196	1165	-1200	-34137,9	4823,8	-157,8	-10,6	Ok
196	1165	-1250	-34027,9	3200,9	-156,5	-10,5	Ok
195	1165	-1300	-33994,7	551,5	-155,0	-10,3	Ok
195	1165	-1350	-33879,5	308,6	-154,4	-10,3	Ok
195	1165	-1400	-33762,0	136,6	-153,9	-10,3	Ok
195	1165	-1450	-33642,3	34,2	-153,4	-10,2	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 327 di
378

195	1165	-1500	-33642,3	0	-153,4	-10,2	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
1165	200	1165	0	-34857,5	1385492	1603,9	-95,3

Valori massimi SLE condizioni rare:

Ten.massima CLS = 95,3 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 1603,9 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1165	0	-32388,6	614579,2	0	Ok
210	1165	-50	-32351,9	205465	0	Ok
210	1165	-100	-32249,0	121508,2	0	Ok
210	1165	-150	-32110,9	228773	0	Ok
210	1165	-200	-32000,8	243713	0	Ok
210	1165	-250	-31949,6	211571	0	Ok
210	1165	-300	-31925,5	176650,4	0	Ok
210	1165	-350	-31897,4	142479,2	0	Ok
210	1165	-400	-31865,5	109949,8	0	Ok
210	1165	-450	-31826,1	79588,0	0	Ok
210	1165	-500	-31775,5	52214,7	0	Ok
210	1165	-550	-31717,7	30152,6	0	Ok
210	1165	-600	-31656,2	13698,8	0	Ok
207	1165	-650	-32385,5	4769,9	0	Ok
207	1165	-700	-32315,6	4434,9	0	Ok
210	1165	-750	-31451,8	12310,1	0	Ok
210	1165	-800	-31377,2	14540,8	0	Ok
210	1165	-850	-31299,6	15041,8	0	Ok
210	1165	-900	-31219	14337,0	0	Ok
210	1165	-950	-31135,5	12874,2	0	Ok
210	1165	-1000	-31049,3	11008,3	0	Ok
210	1165	-1050	-30960,3	9005,1	0	Ok
210	1165	-1100	-30868,7	7052,1	0	Ok
207	1165	-1100	-31644,6	499,9	0	Ok
214	1165	-1100	-31093,1	621,1	0	Ok
207	1165	-1150	-31548,2	301,0	0	Ok
207	1165	-1200	-31449,3	173,2	0	Ok
207	1165	-1250	-31347,9	104,9	0	Ok
207	1165	-1300	-31244,3	73,9	0	Ok
207	1165	-1350	-31138,4	53,2	0	Ok
207	1165	-1400	-31030,5	31,2	0	Ok
207	1165	-1450	-30920,4	10,5	0	Ok
207	1165	-1500	-30920,4	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1165	210	1165	0	-32388,6	614579,2	0

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	

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PROGETTISTA INDICATO

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 328 di
378

215	1165	0	-32442,1	186281	-17,1	0	Ok
215	1165	-50	-32405,4	131547,3	-15,0	0	Ok
215	1165	-100	-32302,3	81325,9	-13,0	0	Ok
215	1165	-150	-32163,9	43337,0	-11,5	0	Ok
215	1165	-200	-32053,7	22024,0	-10,6	0	Ok
215	1165	-250	-32002,4	14768,1	-10,3	0	Ok
215	1165	-300	-31978,2	10624,6	-10,1	0	Ok
215	1165	-350	-31950,1	7280,9	-10,0	0	Ok
215	1165	-400	-31918,2	4878,9	-9,9	0	Ok
215	1165	-450	-31878,7	3773,1	-9,8	0	Ok
215	1165	-500	-31828,1	4003,7	-9,8	0	Ok
215	1165	-550	-31770,1	4528,1	-9,8	0	Ok
215	1165	-600	-31708,6	4764,7	-9,8	0	Ok
215	1165	-650	-31643,6	4666,9	-9,8	0	Ok
215	1165	-700	-31575,3	4313,6	-9,8	0	Ok
215	1165	-750	-31503,8	3800,0	-9,7	0	Ok
215	1165	-800	-31429,1	3209,1	-9,7	0	Ok
215	1165	-850	-31351,3	2605,2	-9,6	0	Ok
215	1165	-900	-31270,6	2034,1	-9,6	0	Ok
215	1165	-950	-31187,0	1524,8	-9,5	0	Ok
215	1165	-1000	-31100,6	1093,2	-9,5	0	Ok
215	1165	-1050	-31011,5	745,4	-9,4	0	Ok
215	1165	-1100	-30919,8	480,3	-9,4	0	Ok
215	1165	-1150	-30825,5	292,1	-9,4	0	Ok
215	1165	-1200	-30728,9	172,7	-9,3	0	Ok
215	1165	-1250	-30629,9	108,9	-9,3	0	Ok
215	1165	-1300	-30528,6	77,8	-9,3	0	Ok
215	1165	-1350	-30425,2	55,2	-9,2	0	Ok
215	1165	-1400	-30319,7	31,8	-9,2	0	Ok
215	1165	-1450	-30212,1	10,6	-9,2	0	Ok
215	1165	-1500	-30212,1	0	-9,2	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1165	215	1165	0	-32442,1	186281	-17,1	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 17,1 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 1207

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1207	SLU STR.	-8156,5	6465,0	-41230	627400	490800	0
2	1207	SLU STR.	29120	-13670	-42760	-845900	-2230000	0
3	1207	SLU STR.	-8318,5	6052,3	-31900	559500	526900	0
4	1207	SLU STR.	28960	-14080	-33430	-913700	-2194000	0
5	1207	SLU STR.	-8167,4	6437,3	-40700	622900	492600	0
6	1207	SLU STR.	29110	-13690	-42230	-850300	-2228000	0
7	1207	SLU STR.	-8329,4	6024,6	-31370	555100	528700	0
8	1207	SLU STR.	28950	-14110	-32900	-918200	-2192000	0
9	1207	SLU STR.	-8157,0	6399,3	-41850	625400	491600	0
10	1207	SLU STR.	29120	-13730	-43380	-847800	-2229000	0
11	1207	SLU STR.	-8319,0	5986,7	-32520	557500	527700	0

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PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 329 di
378

12	1207	SLU STR.	28960	-14140	-34050	-915700	-2193000	0
13	1207	SLU STR.	-8173,8	6384,2	-40260	606800	493800	0
14	1207	SLU STR.	29100	-13750	-41790	-866400	-2227000	0
15	1207	SLU STR.	-8335,7	5971,5	-30930	539000	529900	0
16	1207	SLU STR.	28940	-14160	-32460	-934300	-2191000	0
17	1207	SLU STR.	-14100	9604,9	-39920	852400	926200	0
18	1207	SLU STR.	48030	-23950	-42480	-1603000	-3608000	0
19	1207	SLU STR.	-14260	9192,3	-30590	784500	962300	0
20	1207	SLU STR.	47870	-24360	-33150	-1671000	-3572000	0
21	1207	SLU STR.	-8178,3	6409,6	-40170	618500	494400	0
22	1207	SLU STR.	29100	-13720	-41700	-854700	-2226000	0
23	1207	SLU STR.	-8340,3	5996,9	-30830	550600	530500	0
24	1207	SLU STR.	28940	-14130	-32370	-922600	-2190000	0
25	1207	SLU STR.	-7691,6	6490,9	-41600	630700	459200	0
26	1207	SLU STR.	29580	-13640	-43130	-842500	-2261000	0
27	1207	SLU STR.	-7853,5	6078,3	-32270	562800	495300	0
28	1207	SLU STR.	29420	-14050	-33800	-910400	-2225000	0
29	1207	SLU STR.	-7702,5	6463,2	-41070	626300	461000	0
30	1207	SLU STR.	29570	-13670	-42600	-846900	-2260000	0
31	1207	SLU STR.	-7864,4	6050,6	-31740	558400	497100	0
32	1207	SLU STR.	29410	-14080	-33270	-914800	-2223000	0
33	1207	SLU STR.	-7692,1	6425,3	-42220	628700	460000	0
34	1207	SLU STR.	29580	-13710	-43750	-844500	-2260000	0
35	1207	SLU STR.	-7854,0	6012,6	-32890	560800	496100	0
36	1207	SLU STR.	29420	-14120	-34420	-912400	-2224000	0
37	1207	SLU STR.	-7708,8	6410,1	-40630	610200	462200	0
38	1207	SLU STR.	29570	-13720	-42160	-863000	-2258000	0
39	1207	SLU STR.	-7870,8	5997,4	-31300	542300	498300	0
40	1207	SLU STR.	29400	-14130	-32830	-930900	-2222000	0
41	1207	SLU STR.	-13630	9630,9	-40290	855700	894600	0
42	1207	SLU STR.	48500	-23920	-42850	-1600000	-3640000	0
43	1207	SLU STR.	-13790	9218,2	-30960	787800	930700	0
44	1207	SLU STR.	48330	-24330	-33520	-1668000	-3603000	0
45	1207	SLU STR.	-7403,4	6452,9	-40780	624100	441700	0
46	1207	SLU STR.	29870	-13680	-42320	-849100	-2279000	0
47	1207	SLU STR.	-7565,4	6040,2	-31450	556200	477800	0
48	1207	SLU STR.	29710	-14090	-32980	-917000	-2243000	0
49	1207	SLU STR.	-7713,4	6435,6	-40540	621900	462800	0
50	1207	SLU STR.	29560	-13700	-42070	-851400	-2258000	0
51	1207	SLU STR.	-7875,3	6022,9	-31200	554000	498900	0
52	1207	SLU STR.	29400	-14110	-32740	-919200	-2222000	0
53	1207	SLU STR.	-8389,0	6452,0	-41040	625700	506600	0
54	1207	SLU STR.	28890	-13680	-42580	-847500	-2214000	0
55	1207	SLU STR.	-8550,9	6039,3	-31710	557800	542700	0
56	1207	SLU STR.	28720	-14090	-33250	-915400	-2178000	0
57	1207	SLU STR.	-8399,9	6424,3	-40510	621300	508400	0
58	1207	SLU STR.	28880	-13710	-42050	-852000	-2212000	0
59	1207	SLU STR.	-8561,8	6011,6	-31180	553400	544500	0
60	1207	SLU STR.	28710	-14120	-32710	-919800	-2176000	0
61	1207	SLU STR.	-8389,5	6386,4	-41660	623700	507400	0
62	1207	SLU STR.	28890	-13740	-43200	-849500	-2213000	0
63	1207	SLU STR.	-8551,4	5973,7	-32330	555800	543500	0
64	1207	SLU STR.	28720	-14160	-33860	-917400	-2177000	0
65	1207	SLU STR.	-8406,2	6371,2	-40070	605200	509600	0
66	1207	SLU STR.	28870	-13760	-41610	-868100	-2211000	0
67	1207	SLU STR.	-8568,2	5958,5	-30740	537300	545700	0
68	1207	SLU STR.	28710	-14170	-32280	-935900	-2175000	0
69	1207	SLU STR.	-14330	9592,0	-39740	850700	942000	0
70	1207	SLU STR.	47800	-23960	-42290	-1605000	-3592000	0
71	1207	SLU STR.	-14490	9179,3	-30410	782800	978100	0

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PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 330 di
378

72	1207	SLU STR.	47640	-24370	-32960	-1673000	-3556000	0
73	1207	SLU STR.	-8410,8	6396,6	-39980	616900	510200	0
74	1207	SLU STR.	28860	-13730	-41510	-856400	-2210000	0
75	1207	SLU STR.	-8572,7	5984,0	-30650	549000	546300	0
76	1207	SLU STR.	28700	-14150	-32180	-924300	-2174000	0
77	1207	SLU STR.	-8565,8	6388,0	-39860	615700	520700	0
78	1207	SLU STR.	28710	-13740	-41390	-857500	-2200000	0
79	1207	SLU STR.	-8727,7	5975,3	-30530	547900	556800	0
80	1207	SLU STR.	28550	-14160	-32060	-925400	-2164000	0
81	1207	SLU STR.	-8282,2	7615,2	-41040	698500	507600	0
82	1207	SLU STR.	28990	-12520	-42570	-774800	-2213000	0
83	1207	SLU STR.	-8444,1	7202,5	-31710	630600	543700	0
84	1207	SLU STR.	28830	-12930	-33240	-842600	-2177000	0
85	1207	SLU STR.	-8293,1	7587,5	-40510	694000	509400	0
86	1207	SLU STR.	28980	-12540	-42040	-779200	-2211000	0
87	1207	SLU STR.	-8455	7174,8	-31170	626200	545500	0
88	1207	SLU STR.	28820	-12960	-32710	-847100	-2175000	0
89	1207	SLU STR.	-8282,7	7549,5	-41660	696500	508400	0
90	1207	SLU STR.	28990	-12580	-43190	-776800	-2212000	0
91	1207	SLU STR.	-8444,6	7136,9	-32320	628600	544500	0
92	1207	SLU STR.	28830	-12990	-33860	-844600	-2176000	0
93	1207	SLU STR.	-8299,4	7534,4	-40070	677900	510600	0
94	1207	SLU STR.	28980	-12600	-41600	-795300	-2210000	0
95	1207	SLU STR.	-8461,3	7121,7	-30740	610100	546700	0
96	1207	SLU STR.	28810	-13010	-32270	-863200	-2174000	0
97	1207	SLU STR.	-14220	10760	-39730	923500	943000	0
98	1207	SLU STR.	47910	-22800	-42290	-1532000	-3591000	0
99	1207	SLU STR.	-14380	10340	-30400	855600	979100	0
100	1207	SLU STR.	47740	-23210	-32950	-1600000	-3555000	0
101	1207	SLU STR.	-8304,0	7559,8	-39970	689600	511200	0
102	1207	SLU STR.	28970	-12570	-41510	-783600	-2209000	0
103	1207	SLU STR.	-8465,9	7147,1	-30640	621700	547300	0
104	1207	SLU STR.	28810	-12980	-32170	-851500	-2173000	0
105	1207	SLU STR.	-8387,7	8326,6	-39850	737000	522400	0
106	1207	SLU STR.	28890	-11800	-41380	-736200	-2198000	0
107	1207	SLU STR.	-8549,7	7913,9	-30510	669100	558500	0
108	1207	SLU STR.	28730	-12220	-32050	-804100	-2162000	0
109	1207	SLU STR.	-8026,7	5289,1	-41420	552000	473600	0
110	1207	SLU STR.	29250	-14840	-42950	-921200	-2247000	0
111	1207	SLU STR.	-8188,7	4876,4	-32090	484200	509700	0
112	1207	SLU STR.	29090	-15250	-33620	-989100	-2211000	0
113	1207	SLU STR.	-8037,6	5261,4	-40890	547600	475300	0
114	1207	SLU STR.	29240	-14870	-42420	-925600	-2245000	0
115	1207	SLU STR.	-8199,6	4848,7	-31550	479700	511400	0
116	1207	SLU STR.	29080	-15280	-33090	-993500	-2209000	0
117	1207	SLU STR.	-8027,2	5223,5	-42040	550100	474400	0
118	1207	SLU STR.	29250	-14910	-43570	-923200	-2246000	0
119	1207	SLU STR.	-8189,2	4810,8	-32700	482200	510500	0
120	1207	SLU STR.	29090	-15320	-34240	-991100	-2210000	0
121	1207	SLU STR.	-8044,0	5208,3	-40450	531500	476600	0
122	1207	SLU STR.	29230	-14920	-41980	-941700	-2244000	0
123	1207	SLU STR.	-8205,9	4795,6	-31120	463600	512700	0
124	1207	SLU STR.	29070	-15330	-32650	-1010000	-2208000	0
125	1207	SLU STR.	-13970	8429,1	-40110	777000	909000	0
126	1207	SLU STR.	48160	-25120	-42670	-1678000	-3625000	0
127	1207	SLU STR.	-14130	8016,4	-30780	709200	945100	0
128	1207	SLU STR.	48000	-25530	-33330	-1746000	-3589000	0
129	1207	SLU STR.	-8048,5	5233,7	-40350	543200	477100	0
130	1207	SLU STR.	29230	-14900	-41890	-930000	-2243000	0
131	1207	SLU STR.	-8210,5	4821,1	-31020	475300	513200	0

132	1207	SLU STR.	29060	-15310	-32550	-997900	-2207000	0
133	1207	SLU STR.	-7962,0	4449,8	-40480	493000	465600	0
134	1207	SLU STR.	29310	-15680	-42010	-980200	-2255000	0
135	1207	SLU STR.	-8123,9	4037,1	-31150	425100	501700	0
136	1207	SLU STR.	29150	-16090	-32680	-1048000	-2219000	0
137	1207	SLE Rare	-5381,2	4469,9	-30700	444400	313700	0
138	1207	SLE Rare	19470	-8950,5	-31730	-537700	-1500000	0
139	1207	SLE Rare	-5388,4	4451,4	-30350	441500	314900	0
140	1207	SLE Rare	19460	-8969,0	-31370	-540700	-1499000	0
141	1207	SLE Rare	-5381,5	4426,1	-31120	443100	314300	0
142	1207	SLE Rare	19470	-8994,3	-32140	-539000	-1499000	0
143	1207	SLE Rare	-5392,7	4416,0	-30060	430800	315700	0
144	1207	SLE Rare	19460	-9004,4	-31080	-551400	-1498000	0
145	1207	SLE Rare	-9340,2	6563,2	-29830	594400	604000	0
146	1207	SLE Rare	32080	-15800	-31540	-1042000	-2419000	0
147	1207	SLE Rare	-5395,7	4433,0	-29990	438500	316100	0
148	1207	SLE Rare	19450	-8987,4	-31020	-543600	-1498000	0
149	1207	SLE Rare	-5071,2	4487,2	-30950	446700	292700	0
150	1207	SLE Rare	19780	-8933,2	-31970	-535500	-1521000	0
151	1207	SLE Rare	-5078,5	4468,7	-30600	443700	293800	0
152	1207	SLE Rare	19770	-8951,7	-31620	-538400	-1520000	0
153	1207	SLE Rare	-5071,6	4443,4	-31360	445300	293200	0
154	1207	SLE Rare	19780	-8977,0	-32380	-536800	-1520000	0
155	1207	SLE Rare	-5082,7	4433,3	-30300	433000	294700	0
156	1207	SLE Rare	19770	-8987,1	-31330	-549200	-1519000	0
157	1207	SLE Rare	-9030,2	6580,5	-30080	596700	582900	0
158	1207	SLE Rare	32390	-15790	-31780	-1040000	-2440000	0
159	1207	SLE Rare	-4879,1	4461,8	-30400	442300	281000	0
160	1207	SLE Rare	19970	-8958,6	-31430	-539900	-1533000	0
161	1207	SLE Rare	-5085,8	4450,3	-30240	440800	295000	0
162	1207	SLE Rare	19760	-8970,1	-31260	-541400	-1519000	0
163	1207	SLE Rare	-5536,2	4461,2	-30580	443300	324300	0
164	1207	SLE Rare	19310	-8959,2	-31600	-538800	-1489000	0
165	1207	SLE Rare	-5543,4	4442,8	-30230	440400	325500	0
166	1207	SLE Rare	19310	-8977,6	-31250	-541800	-1488000	0
167	1207	SLE Rare	-5536,5	4417,5	-30990	442000	324800	0
168	1207	SLE Rare	19310	-9002,9	-32020	-540100	-1489000	0
169	1207	SLE Rare	-5547,6	4407,3	-29930	429600	326300	0
170	1207	SLE Rare	19300	-9013,0	-30960	-552500	-1487000	0
171	1207	SLE Rare	-9495,2	6554,5	-29710	593300	614500	0
172	1207	SLE Rare	31920	-15810	-31410	-1044000	-2408000	0
173	1207	SLE Rare	-5550,7	4424,3	-29870	437400	326600	0
174	1207	SLE Rare	19300	-8996,1	-30890	-544700	-1487000	0
175	1207	SLE Rare	-5654	4418,5	-29790	436700	333700	0
176	1207	SLE Rare	19200	-9001,8	-30810	-545500	-1480000	0
177	1207	SLE Rare	-5464,9	5236,7	-30580	491800	324900	0
178	1207	SLE Rare	19390	-8183,7	-31600	-490300	-1489000	0
179	1207	SLE Rare	-5472,2	5218,2	-30220	488900	326100	0
180	1207	SLE Rare	19380	-8202,2	-31240	-493300	-1488000	0
181	1207	SLE Rare	-5465,3	5192,9	-30990	490500	325500	0
182	1207	SLE Rare	19390	-8227,5	-32010	-491600	-1488000	0
183	1207	SLE Rare	-5476,4	5182,8	-29930	478200	326900	0
184	1207	SLE Rare	19370	-8237,6	-30950	-504000	-1487000	0
185	1207	SLE Rare	-9424,0	7330,0	-29700	641800	615200	0
186	1207	SLE Rare	31990	-15040	-31410	-995100	-2408000	0
187	1207	SLE Rare	-5479,5	5199,8	-29870	485900	327300	0
188	1207	SLE Rare	19370	-8220,6	-30890	-496200	-1486000	0
189	1207	SLE Rare	-5535,3	5711,0	-29780	517500	334800	0
190	1207	SLE Rare	19310	-7709,4	-30800	-464600	-1479000	0
191	1207	SLE Rare	-5294,6	3686,0	-30830	394200	302200	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 332 di
378

192	1207	SLE Rare	19560	-9734,4	-31850	-587900	-1511000	0
193	1207	SLE Rare	-5301,9	3667,5	-30470	391300	303400	0
194	1207	SLE Rare	19550	-9752,9	-31500	-590900	-1510000	0
195	1207	SLE Rare	-5295,0	3642,2	-31240	392900	302800	0
196	1207	SLE Rare	19560	-9778,2	-32260	-589200	-1511000	0
197	1207	SLE Rare	-5306,1	3632,1	-30180	380500	304200	0
198	1207	SLE Rare	19540	-9788,3	-31200	-601600	-1509000	0
199	1207	SLE Rare	-9253,7	5779,3	-29960	544200	592500	0
200	1207	SLE Rare	32160	-16590	-31660	-1093000	-2430000	0
201	1207	SLE Rare	-5309,2	3649,0	-30120	388300	304600	0
202	1207	SLE Rare	19540	-9771,4	-31140	-593800	-1509000	0
203	1207	SLE Rare	-5251,5	3126,4	-30200	354900	296900	0
204	1207	SLE Rare	19600	-10290	-31230	-627300	-1517000	0
205	1207	SLE Freq.	490,8	1250,9	-28300	206000	-111600	0
206	1207	SLE Freq.	498,1	1269,4	-28660	209000	-112800	0
207	1207	SLE Freq.	500,2	1246,4	-29050	209100	-112800	0
208	1207	SLE Freq.	492,8	1239,6	-28340	200900	-111800	0
209	1207	SLE Freq.	-4439,8	3913,7	-28100	400900	248300	0
210	1207	SLE Freq.	16270	-7270,0	-28950	-417500	-1263000	0
211	1207	SLE Freq.	594,1	1256,7	-28390	206800	-118600	0
212	1207	SLE Freq.	439,1	1248,0	-28260	205700	-108100	0
213	1207	SLE Freq.	462,9	1506,5	-28260	221800	-107800	0
214	1207	SLE Freq.	519,6	989,6	-28350	189300	-115400	0
215	1207	SLE Quasi P.	490,8	1250,9	-28300	206000	-111600	0
216	1207	SLU A1 sism.	7267,4	6919,6	-40080	701600	-517800	0
217	1207	SLU A1 sism.	9049,9	214,0	-41190	228500	-738000	0
218	1207	SLU A1 sism.	-8068,4	2287,8	-15410	183600	514800	0
219	1207	SLU A1 sism.	-6285,8	-4417,8	-16520	-289500	294700	0
220	1207	SLU A1 sism.	7370,2	6031,3	-39680	622900	-533700	0
221	1207	SLU A1 sism.	8947,1	1102,3	-41600	307200	-722000	0
222	1207	SLU A1 sism.	-7965,6	1399,5	-15010	104900	498900	0
223	1207	SLU A1 sism.	-6388,6	-3529,5	-16930	-210800	310600	0
224	1207	SLU A1 sism.	5996,3	4330,2	-38370	460600	-422600	0
225	1207	SLU A1 sism.	7778,9	-2375,4	-39480	-12580	-642800	0
226	1207	SLU A1 sism.	-6797,3	4877,3	-17130	424700	419600	0
227	1207	SLU A1 sism.	-5014,8	-1828,3	-18240	-48500	199500	0
228	1207	SLU A1 sism.	6099,1	3441,9	-37970	381800	-438600	0
229	1207	SLU A1 sism.	7676,1	-1487,1	-39880	66150	-626900	0
230	1207	SLU A1 sism.	-6694,5	3989,0	-16720	345900	403700	0
231	1207	SLU A1 sism.	-5117,6	-940,0	-18640	30230	215400	0
232	1207	SLU A1 sism.	-179,8	13120	-30150	1072000	100400	0
233	1207	SLU A1 sism.	5762,1	-9230,3	-33850	-504900	-633400	0
234	1207	SLU A1 sism.	-4780,5	11730	-22750	916900	410200	0
235	1207	SLU A1 sism.	1161,3	-10620	-26450	-660200	-323600	0
236	1207	SLU A1 sism.	-561,1	12340	-29640	1000000	129000	0
237	1207	SLU A1 sism.	5380,8	-10010	-33340	-577200	-604800	0
238	1207	SLU A1 sism.	-4399,2	12510	-23270	989200	381700	0
239	1207	SLU A1 sism.	1542,7	-9843,0	-26970	-587900	-352200	0
240	1207	SLU A1 sism.	162,8	10160	-28810	809900	47340	0
241	1207	SLU A1 sism.	5419,4	-6269,3	-35200	-242400	-580300	0
242	1207	SLU A1 sism.	-4437,9	8771,2	-21400	654500	357100	0
243	1207	SLU A1 sism.	818,7	-7658,9	-27800	-397800	-270500	0
244	1207	SLU A1 sism.	-218,5	9383,9	-28290	737600	75890	0
245	1207	SLU A1 sism.	5038,1	-7046,2	-34690	-314700	-551700	0
246	1207	SLU A1 sism.	-4056,6	9548	-21920	726800	328600	0
247	1207	SLU A1 sism.	1200,0	-6882,0	-28320	-325500	-299100	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 17 Ø 20 = 53,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 5, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
128	1207	0	-33333,4	54368,0	3991368	0,872	0,139	0,858	Ok
34	1207	0	-43751,8	32603,8	2413096	0,517	0,183	0,505	Ok
128	1207	-50	-33295,7	34185,6	1463611	0,320	0,139	0,539	Ok
34	1207	-50	-43702,2	20552,7	904518,3	0,194	0,183	0,319	Ok
126	1207	-100	-42481,8	16826,7	289423,4	0,062	0,177	0,261	Ok
34	1207	-100	-43563,2	10164,7	202382,3	0,043	0,182	0,158	Ok
128	1207	-100	-33189,7	16811,6	276783,8	0,060	0,139	0,265	Ok
128	1207	-150	-33047,6	3660,5	1095250	0,239	0,138	0,058	Ok
34	1207	-150	-43376,6	2319,7	655508,3	0,140	0,181	0,036	Ok
128	1207	-200	-32934,3	2951,3	1274539	0,279	0,138	0,047	Ok
34	1207	-200	-43227,9	1771,1	761484,4	0,163	0,181	0,027	Ok
128	1207	-250	-32881,6	3540,8	1127184	0,247	0,137	0,056	Ok
34	1207	-250	-43158,7	2116,0	673497,7	0,144	0,180	0,033	Ok
128	1207	-300	-32856,8	3513,9	950176,9	0,208	0,137	0,055	Ok
34	1207	-300	-43126,2	2099,6	567791,7	0,122	0,180	0,033	Ok
128	1207	-350	-32827,9	3382,4	774512,5	0,169	0,137	0,053	Ok
34	1207	-350	-43088,3	2020,9	462894,1	0,099	0,180	0,031	Ok
128	1207	-400	-32795,1	3186,5	605421,9	0,132	0,137	0,050	Ok
34	1207	-400	-43045,2	1903,8	361930,1	0,078	0,180	0,030	Ok
128	1207	-450	-32754,6	2902,7	446131,8	0,098	0,137	0,046	Ok
34	1207	-450	-42992,0	1734,3	266834,5	0,057	0,180	0,027	Ok
128	1207	-500	-32702,5	2381,5	301045,6	0,066	0,137	0,038	Ok
34	1207	-500	-42923,7	1423,0	180252	0,039	0,179	0,022	Ok
128	1207	-550	-32642,9	1832,8	182039,4	0,040	0,136	0,029	Ok
34	1207	-550	-42845,5	1095,4	109285,7	0,023	0,179	0,017	Ok
128	1207	-600	-32579,7	1341,4	90529,9	0,020	0,136	0,021	Ok
34	1207	-600	-42762,5	802,1	54864,4	0,012	0,179	0,012	Ok
126	1207	-650	-41615,6	920,8	24696,3	0,005	0,174	0,014	Ok
34	1207	-650	-42674,9	551,8	16245,0	0,003	0,178	0,009	Ok
128	1207	-650	-32513,0	922,0	24057,3	0,005	0,136	0,015	Ok
128	1207	-700	-32442,8	579,6	23562,2	0,005	0,136	0,009	Ok
34	1207	-700	-42582,8	347,6	15290,3	0,003	0,178	0,005	Ok
128	1207	-750	-32369,3	312,2	52070,8	0,011	0,135	0,005	Ok
34	1207	-750	-42486,3	188,3	31433,1	0,007	0,177	0,003	Ok
128	1207	-800	-32292,6	113,5	67546,7	0,015	0,135	0,002	Ok
34	1207	-800	-42385,6	71,1	40483,7	0,009	0,177	0,001	Ok
128	1207	-850	-32212,7	32,0	73108,8	0,016	0,135	0,001	Ok
34	1207	-850	-42280,7	25,6	43731,8	0,009	0,177	0,000	Ok
126	1207	-850	-41231,2	34,4	72986,4	0,016	0,172	0,001	Ok
128	1207	-900	-32129,7	119,9	71680,3	0,016	0,134	0,002	Ok
34	1207	-900	-42171,9	72,8	42845,3	0,009	0,176	0,001	Ok
128	1207	-950	-32043,8	171,8	65703,7	0,014	0,134	0,003	Ok
34	1207	-950	-42059,1	103,0	39260,5	0,008	0,176	0,002	Ok
128	1207	-1000	-31955,0	194,3	57122,1	0,013	0,133	0,003	Ok
34	1207	-1000	-41942,6	116,2	34128,6	0,007	0,175	0,002	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 334 di
378

128	1207	-1050	-31863,5	195,6	47410,6	0,010	0,133	0,003	Ok
34	1207	-1050	-41822,4	116,9	28326,1	0,006	0,175	0,002	Ok
128	1207	-1100	-31769,3	182,6	37632,3	0,008	0,133	0,003	Ok
34	1207	-1100	-41698,7	109,1	22485,8	0,005	0,174	0,002	Ok
128	1207	-1150	-31672,4	160,7	28505,6	0,006	0,132	0,003	Ok
34	1207	-1150	-41571,6	96,0	17035,1	0,004	0,174	0,001	Ok
128	1207	-1200	-31573,1	134,2	20472,7	0,004	0,132	0,002	Ok
34	1207	-1200	-41441,3	80,2	12237,6	0,003	0,173	0,001	Ok
128	1207	-1250	-31471,4	106,1	13765,2	0,003	0,131	0,002	Ok
34	1207	-1250	-41307,8	63,4	8230,9	0,002	0,173	0,001	Ok
128	1207	-1300	-31367,3	78,5	8462,2	0,002	0,131	0,001	Ok
34	1207	-1300	-41171,2	46,9	5062,3	0,001	0,172	0,001	Ok
128	1207	-1350	-31261,1	52,7	4539,0	0,001	0,131	0,001	Ok
34	1207	-1350	-41031,7	31,5	2717,1	0,001	0,171	0,000	Ok
128	1207	-1400	-31152,7	29,3	1906,6	0,000	0,130	0,000	Ok
34	1207	-1400	-40889,4	17,6	1142,4	0,000	0,171	0,000	Ok
128	1207	-1450	-31042,2	8,8	440,3	0,000	0,130	0,000	Ok
34	1207	-1450	-40744,4	5,3	264,3	0,000	0,170	0,000	Ok
222	1207	-1500	-13977,6	1,3	0	0	0,058	0,000	Ok
34	1207	-1500	-40744,4	5,3	0	0	0,170	0,000	Ok
128	1207	-1500	-31042,2	8,8	0	0	0,130	0,000	Ok

Sezioni maggiormente sollecitate:

Pl.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
1207	128	1207	0	-33333,4	54368,0	3991368	0,872	0,139	0,858
1207	34	1207	0	-43751,8	32603,8	2413096	0,517	0,183	0,505

S/Su massime:

Ver. N/M = 0,872 < 1 Ok

Ver. (25) = 0,183 < 1 Ok

Ver. V = 0,858 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
200	1207	0	-31660,7	2664643	2763,9	-144,7	Ok
200	1207	-50	-31624,9	984921,1	656,2	-54,0	Ok
200	1207	-100	-31524,2	198774,2	-213,1	-15,6	Ok
200	1207	-150	-31389,3	728310,6	-491,8	-40,0	Ok
200	1207	-200	-31281,6	847135,1	-562,1	-46,5	Ok
200	1207	-250	-31231,6	749234	-503,9	-41,2	Ok
200	1207	-300	-31208	631608,5	-434,1	-34,9	Ok
200	1207	-350	-31180,6	514875,3	-366,1	-28,8	Ok
200	1207	-400	-31149,4	402511,9	-304,2	-23,4	Ok
200	1207	-450	-31110,9	296666	-252,7	-19,0	Ok
158	1207	-500	-31180,2	199386,8	-212,0	-15,5	Ok
158	1207	-550	-31123,4	120684,3	-179,1	-12,8	Ok
158	1207	-600	-31063,2	60206,4	-153,7	-10,7	Ok
158	1207	-650	-30999,6	16566,6	-135,3	-9,1	Ok
154	1207	-650	-31587,7	11250,2	-135,5	-9,1	Ok
204	1207	-650	-30456,6	11520,2	-131,0	-8,8	Ok
158	1207	-700	-30932,6	15918,8	-134,8	-9,1	Ok
154	1207	-700	-31519,5	10473,9	-134,9	-9,1	Ok
204	1207	-700	-30390,9	10970,8	-130,5	-8,8	Ok
158	1207	-750	-30862,6	34510,2	-142,2	-9,7	Ok
158	1207	-800	-30789,4	44700,1	-146,1	-10,1	Ok

MANDATARIA

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PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 335 di
378

158	1207	-850	-30713,2	48366,2	-147,3	-10,2	Ok
158	1207	-900	-30634,1	47418,2	-146,6	-10,1	Ok
158	1207	-950	-30552,2	43465,4	-144,6	-9,9	Ok
158	1207	-1000	-30467,6	37790,3	-141,9	-9,7	Ok
158	1207	-1050	-30380,3	31367,7	-138,9	-9,5	Ok
158	1207	-1100	-30290,4	24900,4	-135,8	-9,2	Ok
158	1207	-1150	-30198,1	18863,6	-132,9	-9,0	Ok
158	1207	-1200	-30103,4	13549,6	-130,3	-8,8	Ok
154	1207	-1200	-30674,6	8143,0	-130,5	-8,8	Ok
204	1207	-1200	-29576,2	8313,1	-126,0	-8,5	Ok
154	1207	-1250	-30575,7	5477,6	-129,0	-8,6	Ok
154	1207	-1300	-30474,7	3369,5	-127,7	-8,5	Ok
196	1207	-1350	-30257,9	1821,8	-126,1	-8,4	Ok
154	1207	-1400	-30266,1	760,8	-125,4	-8,4	Ok
154	1207	-1450	-30158,8	176,1	-125,0	-8,3	Ok
154	1207	-1500	-30158,8	0	-125,0	-8,3	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
1207	200	1207	0	-31660,7	2664643	2763,9	-144,7

Valori massimi SLE condizioni rare:

Ten.massima CLS = 144,7 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 2763,9 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1207	0	-28952,3	1330341	0,080	Ok
210	1207	-50	-28919,5	509494,5	0	Ok
210	1207	-100	-28827,4	127347,1	0	Ok
210	1207	-150	-28704,0	357109,4	0	Ok
210	1207	-200	-28605,6	414296,6	0	Ok
210	1207	-250	-28559,8	366492,8	0	Ok
210	1207	-300	-28538,2	309019,6	0	Ok
210	1207	-350	-28513,2	251985,2	0	Ok
210	1207	-400	-28484,7	197090,7	0	Ok
210	1207	-450	-28449,5	145393,7	0	Ok
210	1207	-500	-28404,2	98341,0	0	Ok
210	1207	-550	-28352,5	59800,6	0	Ok
210	1207	-600	-28297,6	30321,8	0	Ok
210	1207	-650	-28239,6	9809,5	0	Ok
210	1207	-700	-28178,7	8930,0	0	Ok
210	1207	-750	-28114,8	17262,4	0	Ok
210	1207	-800	-28048,2	22083,1	0	Ok
210	1207	-850	-27978,8	23812,8	0	Ok
210	1207	-900	-27906,7	23315,7	0	Ok
210	1207	-950	-27832,1	21360,3	0	Ok
210	1207	-1000	-27755,0	18567,6	0	Ok
210	1207	-1050	-27675,5	15412,0	0	Ok
210	1207	-1100	-27593,7	12236,2	0	Ok
210	1207	-1150	-27509,6	9272,3	0	Ok
210	1207	-1200	-27423,3	6663,1	0	Ok
210	1207	-1250	-27334,9	4483,5	0	Ok
210	1207	-1300	-27244,6	2759,1	0	Ok
207	1207	-1350	-27245,3	57,7	0	Ok
207	1207	-1400	-27150,8	37,0	0	Ok
207	1207	-1450	-27054,5	13,0	0	Ok
207	1207	-1500	-27054,5	0	0	Ok

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**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 336 di
378

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1207	210	1207	0	-28952,3	1330341	0,080

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0,080 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	1207	0	-28303,3	234313,7	-16,0	0	Ok
215	1207	-50	-28271,3	166363,9	-13,6	0	Ok
215	1207	-100	-28181,3	102790,3	-11,4	0	Ok
215	1207	-150	-28060,6	53722,2	-9,6	0	Ok
215	1207	-200	-27964,4	25313,6	-8,6	0	Ok
215	1207	-250	-27919,7	15730,3	-8,3	0	Ok
215	1207	-300	-27898,6	10491,7	-8,1	0	Ok
215	1207	-350	-27874,1	6255,4	-7,9	0	Ok
215	1207	-400	-27846,2	3324,7	-7,8	0	Ok
215	1207	-450	-27811,8	2962,3	-7,8	0	Ok
215	1207	-500	-27767,6	4446,0	-7,8	0	Ok
215	1207	-550	-27717,0	5564,8	-7,8	0	Ok
215	1207	-600	-27663,3	6003,7	-7,8	0	Ok
215	1207	-650	-27606,7	5907,2	-7,8	0	Ok
215	1207	-700	-27547,1	5447,2	-7,8	0	Ok
215	1207	-750	-27484,7	4772,5	-7,8	0	Ok
215	1207	-800	-27419,5	4000,1	-7,7	0	Ok
215	1207	-850	-27351,7	3216,3	-7,7	0	Ok
215	1207	-900	-27281,2	2480,0	-7,6	0	Ok
215	1207	-950	-27208,3	1827,9	-7,6	0	Ok
215	1207	-1000	-27132,9	1279,0	-7,5	0	Ok
215	1207	-1050	-27055,2	839,4	-7,5	0	Ok
215	1207	-1100	-26975,2	506,3	-7,5	0	Ok
215	1207	-1150	-26893,0	271,8	-7,4	0	Ok
215	1207	-1200	-26808,6	128,1	-7,4	0	Ok
215	1207	-1250	-26722,3	72,9	-7,4	0	Ok
215	1207	-1300	-26633,9	68,8	-7,4	0	Ok
215	1207	-1350	-26543,7	59,3	-7,3	0	Ok
215	1207	-1400	-26451,6	37,3	-7,3	0	Ok
215	1207	-1450	-26357,8	12,9	-7,3	0	Ok
215	1207	-1500	-26357,8	0	-7,3	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1207	215	1207	0	-28303,3	234313,7	-16,0	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 16,0 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 1275

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

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PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 337 di
378

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1275	SLU STR.	2773,0	-5996,9	-48990	-500500	-254200	0
2	1275	SLU STR.	-9470,9	14670	-48990	991300	659600	0
3	1275	SLU STR.	2807,4	-5719,4	-37890	-462400	-245500	0
4	1275	SLU STR.	-9436,4	14950	-37880	1029000	668300	0
5	1275	SLU STR.	2776,6	-5977,0	-48450	-497700	-254400	0
6	1275	SLU STR.	-9467,2	14690	-48440	994100	659400	0
7	1275	SLU STR.	2811,0	-5699,6	-37340	-459600	-245700	0
8	1275	SLU STR.	-9432,8	14970	-37330	1032000	668100	0
9	1275	SLU STR.	2782,4	-5942,4	-47920	-483900	-254600	0
10	1275	SLU STR.	-9461,5	14730	-47920	1008000	659200	0
11	1275	SLU STR.	2816,8	-5665,0	-36820	-445800	-245900	0
12	1275	SLU STR.	-9427,1	15000	-36810	1046000	667900	0
13	1275	SLU STR.	2778,6	-5911,8	-49570	-495800	-254100	0
14	1275	SLU STR.	-9465,2	14760	-49560	996000	659700	0
15	1275	SLU STR.	2813,0	-5634,3	-38460	-457700	-245400	0
16	1275	SLU STR.	-9430,8	15030	-38460	1034000	668400	0
17	1275	SLU STR.	4723,7	-9237,8	-47910	-731600	-399600	0
18	1275	SLU STR.	-15680	25210	-47890	1755000	1123000	0
19	1275	SLU STR.	4758,2	-8960,3	-36800	-693500	-390900	0
20	1275	SLU STR.	-15650	25490	-36780	1793000	1132000	0
21	1275	SLU STR.	2780,3	-5957,2	-47900	-494800	-254500	0
22	1275	SLU STR.	-9463,6	14710	-47900	997000	659300	0
23	1275	SLU STR.	2814,7	-5679,8	-36800	-456700	-245800	0
24	1275	SLU STR.	-9429,1	14990	-36790	1035000	668000	0
25	1275	SLU STR.	3242,8	-5993,8	-48880	-500000	-286500	0
26	1275	SLU STR.	-9001,0	14670	-48870	991800	627200	0
27	1275	SLU STR.	3277,2	-5716,4	-37770	-461900	-277800	0
28	1275	SLU STR.	-8966,6	14950	-37770	1030000	635900	0
29	1275	SLU STR.	3246,4	-5974,0	-48340	-497100	-286700	0
30	1275	SLU STR.	-8997,4	14690	-48330	994600	627100	0
31	1275	SLU STR.	3280,9	-5696,6	-37230	-459000	-278000	0
32	1275	SLU STR.	-8963,0	14970	-37220	1033000	635800	0
33	1275	SLU STR.	3252,2	-5939,4	-47810	-483400	-287000	0
34	1275	SLU STR.	-8991,7	14730	-47800	1008000	626800	0
35	1275	SLU STR.	3286,6	-5662,0	-36700	-445300	-278300	0
36	1275	SLU STR.	-8957,2	15010	-36700	1047000	635500	0
37	1275	SLU STR.	3248,4	-5908,7	-49460	-495300	-286500	0
38	1275	SLU STR.	-8995,4	14760	-49450	996500	627300	0
39	1275	SLU STR.	3282,9	-5631,3	-38350	-457200	-277800	0
40	1275	SLU STR.	-8961,0	15040	-38340	1035000	636000	0
41	1275	SLU STR.	5193,6	-9234,8	-47790	-731100	-431900	0
42	1275	SLU STR.	-15210	25210	-47780	1755000	1091000	0
43	1275	SLU STR.	5228,0	-8957,3	-36690	-693000	-423200	0
44	1275	SLU STR.	-15180	25490	-36670	1793000	1100000	0
45	1275	SLU STR.	3563,3	-5952,2	-47720	-494000	-308500	0
46	1275	SLU STR.	-8680,5	14720	-47710	997800	605300	0
47	1275	SLU STR.	3597,7	-5674,7	-36610	-455800	-299800	0
48	1275	SLU STR.	-8646,1	14990	-36600	1036000	614000	0
49	1275	SLU STR.	3250,1	-5954,2	-47790	-494300	-286900	0
50	1275	SLU STR.	-8993,7	14710	-47780	997500	626900	0
51	1275	SLU STR.	3284,5	-5676,7	-36680	-456200	-278200	0
52	1275	SLU STR.	-8959,3	14990	-36680	1036000	635600	0
53	1275	SLU STR.	2538,1	-5998,4	-49050	-500800	-238000	0
54	1275	SLU STR.	-9705,8	14670	-49040	991000	675800	0
55	1275	SLU STR.	2572,5	-5720,9	-37940	-462700	-229300	0
56	1275	SLU STR.	-9671,4	14950	-37940	1029000	684500	0
57	1275	SLU STR.	2541,7	-5978,6	-48510	-497900	-238200	0
58	1275	SLU STR.	-9702,1	14690	-48500	993900	675600	0

59	1275	SLU STR.	2576,1	-5701,1	-37400	-459800	-229500	0
60	1275	SLU STR.	-9667,7	14970	-37390	1032000	684300	0
61	1275	SLU STR.	2547,4	-5944,0	-47980	-484200	-238400	0
62	1275	SLU STR.	-9696,4	14720	-47970	1008000	675400	0
63	1275	SLU STR.	2581,9	-5666,5	-36870	-446100	-229700	0
64	1275	SLU STR.	-9662,0	15000	-36870	1046000	684100	0
65	1275	SLU STR.	2543,7	-5913,3	-49630	-496100	-237900	0
66	1275	SLU STR.	-9700,1	14750	-49620	995700	675900	0
67	1275	SLU STR.	2578,1	-5635,8	-38520	-457900	-229200	0
68	1275	SLU STR.	-9665,7	15030	-38510	1034000	684600	0
69	1275	SLU STR.	4488,8	-9239,3	-47960	-731900	-383400	0
70	1275	SLU STR.	-15920	25210	-47950	1754000	1140000	0
71	1275	SLU STR.	4523,3	-8961,8	-36850	-693800	-374700	0
72	1275	SLU STR.	-15880	25480	-36840	1793000	1148000	0
73	1275	SLU STR.	2545,4	-5958,7	-47960	-495100	-238300	0
74	1275	SLU STR.	-9698,5	14710	-47950	996700	675400	0
75	1275	SLU STR.	2579,8	-5681,3	-36850	-457000	-229600	0
76	1275	SLU STR.	-9664,0	14990	-36840	1035000	684100	0
77	1275	SLU STR.	2388,8	-5959,8	-48000	-495300	-227600	0
78	1275	SLU STR.	-9855,1	14710	-47990	996500	686200	0
79	1275	SLU STR.	2423,2	-5682,3	-36890	-457200	-218900	0
80	1275	SLU STR.	-9820,7	14990	-36880	1035000	694900	0
81	1275	SLU STR.	2940,2	-5011	-50600	-463000	-275800	0
82	1275	SLU STR.	-9303,6	15660	-50590	1029000	638000	0
83	1275	SLU STR.	2974,6	-4733,5	-39490	-424900	-267100	0
84	1275	SLU STR.	-9269,2	15930	-39490	1067000	646700	0
85	1275	SLU STR.	2943,9	-4991,2	-50060	-460200	-275900	0
86	1275	SLU STR.	-9300,0	15680	-50050	1032000	637900	0
87	1275	SLU STR.	2978,3	-4713,7	-38950	-422100	-267200	0
88	1275	SLU STR.	-9265,5	15950	-38940	1070000	646600	0
89	1275	SLU STR.	2949,6	-4956,6	-49530	-446400	-276200	0
90	1275	SLU STR.	-9294,2	15710	-49520	1045000	637600	0
91	1275	SLU STR.	2984,0	-4679,1	-38420	-408300	-267500	0
92	1275	SLU STR.	-9259,8	15990	-38420	1083000	646300	0
93	1275	SLU STR.	2945,9	-4925,9	-51180	-458300	-275700	0
94	1275	SLU STR.	-9298,0	15740	-51170	1034000	638100	0
95	1275	SLU STR.	2980,3	-4648,5	-40070	-420200	-267000	0
96	1275	SLU STR.	-9263,5	16020	-40060	1072000	646800	0
97	1275	SLU STR.	4891,0	-8251,9	-49510	-694100	-421100	0
98	1275	SLU STR.	-15520	26190	-49500	1792000	1102000	0
99	1275	SLU STR.	4925,4	-7974,5	-38400	-656000	-412500	0
100	1275	SLU STR.	-15480	26470	-38390	1830000	1111000	0
101	1275	SLU STR.	2947,5	-4971,4	-49510	-457300	-276100	0
102	1275	SLU STR.	-9296,3	15700	-49500	1034000	637700	0
103	1275	SLU STR.	2982,0	-4693,9	-38400	-419200	-267400	0
104	1275	SLU STR.	-9261,9	15970	-38390	1073000	646400	0
105	1275	SLU STR.	3059,0	-4314,2	-50580	-432300	-290500	0
106	1275	SLU STR.	-9184,8	16350	-50570	1059000	623300	0
107	1275	SLU STR.	3093,5	-4036,7	-39470	-394200	-281800	0
108	1275	SLU STR.	-9150,4	16630	-39470	1098000	632000	0
109	1275	SLU STR.	2607,3	-6957,4	-47400	-533400	-232700	0
110	1275	SLU STR.	-9636,5	13710	-47390	958400	681000	0
111	1275	SLU STR.	2641,7	-6680,0	-36290	-495300	-224000	0
112	1275	SLU STR.	-9602,1	13990	-36280	996500	689700	0
113	1275	SLU STR.	2611,0	-6937,6	-46850	-530600	-232900	0
114	1275	SLU STR.	-9632,9	13730	-46850	961200	680900	0
115	1275	SLU STR.	2645,4	-6660,2	-35750	-492500	-224200	0
116	1275	SLU STR.	-9598,4	14010	-35740	999300	689600	0
117	1275	SLU STR.	2616,7	-6903,0	-46330	-516900	-233200	0
118	1275	SLU STR.	-9627,1	13760	-46320	974900	680600	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 339 di
378

119	1275	SLU STR.	2651,1	-6625,6	-35220	-478700	-224500	0
120	1275	SLU STR.	-9592,7	14040	-35210	1013000	689300	0
121	1275	SLU STR.	2613,0	-6872,4	-47980	-528700	-232700	0
122	1275	SLU STR.	-9630,9	13800	-47970	963100	681100	0
123	1275	SLU STR.	2647,4	-6594,9	-36870	-490600	-224000	0
124	1275	SLU STR.	-9596,4	14070	-36860	1001000	689800	0
125	1275	SLU STR.	4558,1	-10200	-46310	-764600	-378100	0
126	1275	SLU STR.	-15850	24250	-46300	1722000	1145000	0
127	1275	SLU STR.	4592,5	-9920,9	-35200	-726400	-369400	0
128	1275	SLU STR.	-15810	24520	-35190	1760000	1154000	0
129	1275	SLU STR.	2614,6	-6917,8	-46310	-527800	-233100	0
130	1275	SLU STR.	-9629,2	13750	-46300	964000	680700	0
131	1275	SLU STR.	2649,0	-6640,4	-35200	-489700	-224400	0
132	1275	SLU STR.	-9594,8	14030	-35190	1002000	689400	0
133	1275	SLU STR.	2504,2	-7558,2	-45250	-549700	-218800	0
134	1275	SLU STR.	-9739,6	13110	-45240	942100	695000	0
135	1275	SLU STR.	2538,6	-7280,7	-34140	-511600	-210100	0
136	1275	SLU STR.	-9705,2	13390	-34130	980200	703700	0
137	1275	SLE Rare	1836,8	-4112,1	-36640	-349600	-173400	0
138	1275	SLE Rare	-6325,8	9666,3	-36640	645000	435800	0
139	1275	SLE Rare	1839,2	-4098,9	-36280	-347700	-173500	0
140	1275	SLE Rare	-6323,3	9679,5	-36270	646800	435700	0
141	1275	SLE Rare	1843,0	-4075,8	-35930	-338500	-173700	0
142	1275	SLE Rare	-6319,5	9702,6	-35920	656000	435500	0
143	1275	SLE Rare	1840,5	-4055,3	-37030	-346400	-173300	0
144	1275	SLE Rare	-6322,0	9723,0	-37020	648100	435900	0
145	1275	SLE Rare	3137,3	-6272,7	-35920	-503700	-270300	0
146	1275	SLE Rare	-10470	16690	-35910	1154000	745000	0
147	1275	SLE Rare	1841,7	-4085,6	-35920	-345800	-173600	0
148	1275	SLE Rare	-6320,9	9692,7	-35910	648700	435600	0
149	1275	SLE Rare	2150,0	-4110,0	-36570	-349200	-194900	0
150	1275	SLE Rare	-6012,6	9668,3	-36560	645300	414200	0
151	1275	SLE Rare	2152,4	-4096,8	-36200	-347300	-195100	0
152	1275	SLE Rare	-6010,1	9681,5	-36200	647200	414100	0
153	1275	SLE Rare	2156,3	-4073,8	-35860	-338200	-195200	0
154	1275	SLE Rare	-6006,3	9704,6	-35850	656400	414000	0
155	1275	SLE Rare	2153,8	-4053,3	-36950	-346100	-194900	0
156	1275	SLE Rare	-6008,8	9725,0	-36950	648500	414300	0
157	1275	SLE Rare	3450,5	-6270,7	-35840	-503300	-291900	0
158	1275	SLE Rare	-10150	16690	-35830	1154000	723400	0
159	1275	SLE Rare	2363,7	-4082,3	-35790	-345200	-209600	0
160	1275	SLE Rare	-5798,9	9696,1	-35790	649300	399600	0
161	1275	SLE Rare	2154,9	-4083,6	-35840	-345400	-195200	0
162	1275	SLE Rare	-6007,7	9694,7	-35840	649100	414000	0
163	1275	SLE Rare	1680,2	-4113,1	-36680	-349800	-162600	0
164	1275	SLE Rare	-6482,4	9665,3	-36680	644800	446600	0
165	1275	SLE Rare	1682,6	-4099,9	-36320	-347900	-162700	0
166	1275	SLE Rare	-6480,0	9678,5	-36310	646700	446500	0
167	1275	SLE Rare	1686,4	-4076,8	-35970	-338700	-162900	0
168	1275	SLE Rare	-6476,1	9701,6	-35960	655800	446300	0
169	1275	SLE Rare	1683,9	-4056,3	-37070	-346600	-162500	0
170	1275	SLE Rare	-6478,6	9722	-37060	647900	446700	0
171	1275	SLE Rare	2980,7	-6273,7	-35960	-503800	-259500	0
172	1275	SLE Rare	-10620	16690	-35950	1154000	755800	0
173	1275	SLE Rare	1685,0	-4086,7	-35950	-346000	-162800	0
174	1275	SLE Rare	-6477,5	9691,7	-35950	648600	446400	0
175	1275	SLE Rare	1580,6	-4087,3	-35980	-346100	-155600	0
176	1275	SLE Rare	-6581,9	9691,0	-35970	648400	453600	0
177	1275	SLE Rare	1948,3	-3454,8	-37710	-324600	-187800	0
178	1275	SLE Rare	-6214,3	10320	-37710	670000	421400	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 340 di
378

179	1275	SLE Rare	1950,7	-3441,6	-37350	-322700	-187900	0
180	1275	SLE Rare	-6211,8	10340	-37350	671800	421300	0
181	1275	SLE Rare	1954,5	-3418,6	-37000	-313500	-188000	0
182	1275	SLE Rare	-6208,0	10360	-37000	681000	421200	0
183	1275	SLE Rare	1952,1	-3398,1	-38100	-321400	-187700	0
184	1275	SLE Rare	-6210,5	10380	-38090	673100	421500	0
185	1275	SLE Rare	3248,8	-5615,5	-36990	-478700	-284700	0
186	1275	SLE Rare	-10360	17350	-36980	1179000	730600	0
187	1275	SLE Rare	1953,2	-3428,4	-36990	-320800	-188000	0
188	1275	SLE Rare	-6209,4	10350	-36980	673700	421200	0
189	1275	SLE Rare	2027,5	-2990,3	-37700	-304100	-197600	0
190	1275	SLE Rare	-6135,1	10790	-37700	690400	411600	0
191	1275	SLE Rare	1726,3	-4752,4	-35580	-371500	-159100	0
192	1275	SLE Rare	-6436,2	9025,9	-35570	623000	450100	0
193	1275	SLE Rare	1728,8	-4739,2	-35220	-369600	-159200	0
194	1275	SLE Rare	-6433,8	9039,1	-35210	624900	450000	0
195	1275	SLE Rare	1732,6	-4716,2	-34870	-360500	-159400	0
196	1275	SLE Rare	-6430,0	9062,2	-34860	634100	449800	0
197	1275	SLE Rare	1730,1	-4695,7	-35960	-368400	-159000	0
198	1275	SLE Rare	-6432,4	9082,6	-35960	626100	450200	0
199	1275	SLE Rare	3026,9	-6913,1	-34850	-525600	-256000	0
200	1275	SLE Rare	-10580	16050	-34840	1132000	759300	0
201	1275	SLE Rare	1731,2	-4726,0	-34850	-367700	-159300	0
202	1275	SLE Rare	-6431,3	9052,3	-34850	626800	449900	0
203	1275	SLE Rare	1657,6	-5153,0	-34140	-382400	-149800	0
204	1275	SLE Rare	-6505,0	8625,4	-34140	612200	459400	0
205	1275	SLE Freq.	-99,8	-845,4	-34050	-116000	-28980	0
206	1275	SLE Freq.	-102,2	-858,7	-34420	-117800	-28860	0
207	1275	SLE Freq.	-98,8	-838,9	-34060	-111100	-29010	0
208	1275	SLE Freq.	-100,5	-825,2	-34790	-116400	-28790	0
209	1275	SLE Freq.	1519,8	-3579,2	-34050	-313300	-149800	0
210	1275	SLE Freq.	-5282,3	7902,7	-34050	515500	357800	0
211	1275	SLE Freq.	4,7	-844,8	-34030	-115800	-36170	0
212	1275	SLE Freq.	-152,0	-845,8	-34060	-116000	-25380	0
213	1275	SLE Freq.	-62,6	-626,4	-34410	-107600	-33770	0
214	1275	SLE Freq.	-136,6	-1058,9	-33700	-123300	-24220	0
215	1275	SLE Quasi P.	-99,8	-845,4	-34050	-116000	-28980	0
216	1275	SLU A1 sism.	6785,9	24,0	-35050	-150000	-528000	0
217	1275	SLU A1 sism.	4938,3	-3070,6	-22720	-131800	-293700	0
218	1275	SLU A1 sism.	-5137,8	1379,7	-45380	-100100	235700	0
219	1275	SLU A1 sism.	-6985,4	-1714,9	-33050	-81960	470000	0
220	1275	SLU A1 sism.	6825,7	343,1	-35020	-123500	-524900	0
221	1275	SLU A1 sism.	4898,5	-3389,7	-22750	-158200	-296800	0
222	1275	SLU A1 sism.	-5098,0	1698,8	-45350	-73680	238800	0
223	1275	SLU A1 sism.	-7025,2	-2034,0	-33080	-108400	466900	0
224	1275	SLU A1 sism.	8227,5	1560,7	-35920	-39280	-637800	0
225	1275	SLU A1 sism.	6379,9	-1533,8	-23590	-21150	-403400	0
226	1275	SLU A1 sism.	-6579,4	-157,0	-44510	-210800	345500	0
227	1275	SLU A1 sism.	-8427,0	-3251,6	-32190	-192600	579800	0
228	1275	SLU A1 sism.	8267,3	1879,8	-35890	-12860	-634600	0
229	1275	SLU A1 sism.	6340,1	-1853,0	-23620	-47560	-406500	0
230	1275	SLU A1 sism.	-6539,6	162,1	-44480	-184300	348600	0
231	1275	SLU A1 sism.	-8466,8	-3570,7	-32220	-219000	576700	0
232	1275	SLU A1 sism.	4768,2	4108,8	-53050	-153700	-534100	0
233	1275	SLU A1 sism.	-1390,6	-6206,4	-11950	-93200	247000	0
234	1275	SLU A1 sism.	1191,1	4515,5	-56150	-138700	-305000	0
235	1275	SLU A1 sism.	-4967,7	-5799,7	-15050	-78250	476100	0
236	1275	SLU A1 sism.	5200,6	4569,8	-53310	-120500	-567000	0
237	1275	SLU A1 sism.	-958,1	-5745,4	-12210	-60000	214100	0
238	1275	SLU A1 sism.	758,6	4054,5	-55890	-171900	-272000	0

239	1275	SLU A1 sism.	-5400,2	-6260,7	-14790	-111400	509100	0
240	1275	SLU A1 sism.	4900,8	5172,5	-52940	-65600	-523700	0
241	1275	SLU A1 sism.	-1523,2	-7270,1	-12060	-181300	236700	0
242	1275	SLU A1 sism.	1323,7	5579,3	-56040	-50640	-294600	0
243	1275	SLU A1 sism.	-5100,3	-6863,4	-15160	-166300	465800	0
244	1275	SLU A1 sism.	5333,3	5633,6	-53200	-32400	-556700	0
245	1275	SLU A1 sism.	-1090,7	-6809,1	-12320	-148100	203700	0
246	1275	SLU A1 sism.	891,2	5118,2	-55780	-83840	-261700	0
247	1275	SLU A1 sism.	-5532,8	-7324,4	-14900	-199500	498700	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 10 Ø 20 = 31,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 10, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
72	1275	0	-36840,5	30028,5	2128793	0,675	0,154	0,789	Ok
234	1275	0	-56148,4	4669,9	335035,1	0,099	0,235	0,123	Ok
100	1275	0	-38390,4	30665,9	2140863	0,675	0,160	0,806	Ok
128	1275	-50	-35149,7	18228,5	747111	0,239	0,147	0,479	Ok
234	1275	-50	-56084,8	1963,2	406649	0,120	0,234	0,052	Ok
100	1275	-50	-38346,9	18928,2	718190,4	0,226	0,160	0,497	Ok
234	1275	-100	-55906,3	1422,7	428492,9	0,126	0,234	0,037	Ok
100	1275	-100	-38224,9	9014,0	230615,5	0,073	0,160	0,237	Ok
100	1275	-150	-38061,2	1656,2	679907,2	0,215	0,159	0,044	Ok
234	1275	-150	-55666,9	1632,4	378769,7	0,112	0,233	0,043	Ok
128	1275	-150	-34887,9	1813,9	607614,6	0,194	0,146	0,048	Ok
100	1275	-200	-37930,7	1871,7	762312,9	0,241	0,158	0,049	Ok
234	1275	-200	-55476,0	1216,7	301185,8	0,089	0,232	0,032	Ok
98	1275	-200	-48904,4	1900,3	765504,3	0,231	0,204	0,050	Ok
100	1275	-250	-37870,0	2147,8	668746,1	0,211	0,158	0,056	Ok
234	1275	-250	-55387,3	980,0	240738,9	0,071	0,231	0,026	Ok
98	1275	-250	-48826,1	2162,6	670505,5	0,203	0,204	0,057	Ok
100	1275	-300	-37841,5	2118,6	561359,7	0,177	0,158	0,056	Ok
234	1275	-300	-55345,5	910,8	191849,9	0,057	0,231	0,024	Ok
98	1275	-300	-48789,3	2130,7	562380,6	0,170	0,204	0,056	Ok
100	1275	-350	-37808,2	2029,7	455433,5	0,144	0,158	0,053	Ok
234	1275	-350	-55296,9	831,1	146422,1	0,043	0,231	0,022	Ok
98	1275	-350	-48746,4	2039,5	455848,3	0,138	0,204	0,054	Ok
100	1275	-400	-37770,4	1905,0	353949,7	0,112	0,158	0,050	Ok
234	1275	-400	-55241,6	748,8	105007,4	0,031	0,231	0,020	Ok
98	1275	-400	-48697,7	1912,8	353875,4	0,107	0,203	0,050	Ok
100	1275	-450	-37723,7	1728,7	258703,4	0,082	0,158	0,045	Ok
234	1275	-450	-55173,3	650,7	67781,0	0,020	0,230	0,017	Ok
98	1275	-450	-48637,5	1734,5	258238,6	0,078	0,203	0,046	Ok
100	1275	-500	-37663,8	1409,4	172275	0,054	0,157	0,037	Ok
234	1275	-500	-55085,6	492,3	35711,2	0,011	0,230	0,013	Ok
98	1275	-500	-48560,2	1412,4	171519,8	0,052	0,203	0,037	Ok

100	1275	-550	-37595,2	1076,6	101811,1	0,032	0,157	0,028	Ok
234	1275	-550	-54985,2	341,5	12747,8	0,004	0,230	0,009	Ok
98	1275	-550	-48471,7	1077,4	100904,3	0,031	0,202	0,028	Ok
72	1275	-600	-36007,5	757,4	47893,7	0,015	0,150	0,020	Ok
234	1275	-600	-54878,8	218,0	9734,5	0,003	0,229	0,006	Ok
100	1275	-600	-37522,4	781,0	47992,6	0,015	0,157	0,021	Ok
238	1275	-650	-54512,9	113,8	18729,1	0,006	0,228	0,003	Ok
234	1275	-650	-54766,4	121,5	18686,4	0,006	0,229	0,003	Ok
100	1275	-650	-37445,5	530,5	9037,0	0,003	0,156	0,014	Ok
234	1275	-700	-54648,2	50,9	24197,4	0,007	0,228	0,001	Ok
100	1275	-700	-37364,7	327,3	17651,7	0,006	0,156	0,009	Ok
100	1275	-750	-37280,0	169,6	33983,1	0,011	0,156	0,004	Ok
234	1275	-750	-54524,4	19,7	26309,6	0,008	0,228	0,001	Ok
100	1275	-800	-37191,6	53,2	42452,3	0,013	0,155	0,001	Ok
234	1275	-800	-54395,1	42,5	25929,3	0,008	0,227	0,001	Ok
128	1275	-800	-34090,8	57,0	37627,0	0,012	0,142	0,001	Ok
100	1275	-850	-37099,6	28,2	45101,9	0,014	0,155	0,001	Ok
234	1275	-850	-54260,5	60,4	23900,1	0,007	0,227	0,002	Ok
100	1275	-900	-37004,1	79,8	43702,2	0,014	0,155	0,002	Ok
234	1275	-900	-54120,8	68,6	20912,9	0,006	0,226	0,002	Ok
98	1275	-900	-47709,7	81,8	44045,2	0,013	0,199	0,002	Ok
100	1275	-950	-36905,2	108,6	39711,7	0,013	0,154	0,003	Ok
234	1275	-950	-53976,1	69,3	17499,5	0,005	0,225	0,002	Ok
98	1275	-950	-47582,1	110,2	39957,6	0,012	0,199	0,003	Ok
100	1275	-1000	-36802,9	120,1	34280,5	0,011	0,154	0,003	Ok
234	1275	-1000	-53826,5	64,8	14045,9	0,004	0,225	0,002	Ok
98	1275	-1000	-47450,3	121,4	34446,1	0,010	0,198	0,003	Ok
100	1275	-1050	-36697,5	119,3	28274,3	0,009	0,153	0,003	Ok
234	1275	-1050	-53672,3	57,1	10813,6	0,003	0,224	0,002	Ok
98	1275	-1050	-47314,3	120,2	28376,9	0,009	0,198	0,003	Ok
100	1275	-1100	-36588,9	110,2	22311,0	0,007	0,153	0,003	Ok
234	1275	-1100	-53513,6	47,8	7962,9	0,002	0,224	0,001	Ok
98	1275	-1100	-47174,4	110,8	22366,6	0,007	0,197	0,003	Ok
100	1275	-1150	-36477,4	96,1	16802,2	0,005	0,152	0,003	Ok
234	1275	-1150	-53350,5	38,1	5575,0	0,002	0,223	0,001	Ok
98	1275	-1150	-47030,6	96,5	16825,2	0,005	0,196	0,003	Ok
100	1275	-1200	-36363,0	79,6	11995,6	0,004	0,152	0,002	Ok
234	1275	-1200	-53183,2	28,8	3672,8	0,001	0,222	0,001	Ok
98	1275	-1200	-46883,1	79,8	11998,3	0,004	0,196	0,002	Ok
100	1275	-1250	-36245,9	62,4	8014,7	0,003	0,151	0,002	Ok
234	1275	-1250	-53011,8	20,3	2237,6	0,001	0,221	0,001	Ok
98	1275	-1250	-46732,1	62,5	8006,6	0,002	0,195	0,002	Ok
100	1275	-1300	-36126,1	45,8	4893,0	0,002	0,151	0,001	Ok
234	1275	-1300	-52836,6	13,2	1223,1	0,000	0,221	0,000	Ok
100	1275	-1350	-36003,7	30,4	2604,0	0,001	0,150	0,001	Ok
234	1275	-1350	-52657,6	7,5	566,4	0,000	0,220	0,000	Ok
100	1275	-1400	-35878,8	16,7	1083,5	0,000	0,150	0,000	Ok
234	1275	-1400	-52475,0	3,3	194,8	0,000	0,219	0,000	Ok
100	1275	-1450	-35751,6	4,9	246,7	0,000	0,149	0,000	Ok
234	1275	-1450	-52288,9	0,6	32,1	0,000	0,218	0,000	Ok
233	1275	-1500	-11133,1	0,9	0	0	0,047	0,000	Ok
234	1275	-1500	-52288,9	0,6	0	0	0,218	0,000	Ok
100	1275	-1500	-35751,6	4,9	0	0	0,149	0,000	Ok

Sezioni maggiormente sollecitate:

Pl.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
1275	72	1275	0	-36840,5	30028,5	2128793	0,675	0,154	0,789
1275	234	1275	0	-56148,4	4669,9	335035,1	0,099	0,235	0,123
1275	100	1275	0	-38390,4	30665,9	2140863	0,675	0,160	0,806

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 343 di
378

S/Su massime:

Ver. N/M = 0,675 < 1 Ok

Ver. (25) = 0,235 < 1 Ok

Ver. V = 0,806 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
186	1275	0	-36978,7	1386950	1542,7	-95,1	Ok
200	1275	0	-34844,8	1363029	1561,1	-93,7	Ok
172	1275	0	-35945,4	1379245	1559,0	-94,7	Ok
200	1275	-50	-34805,3	470078,4	-384,0	-30,6	Ok
186	1275	-100	-36819,3	170568,9	-243,9	-17,8	Ok
186	1275	-150	-36661,6	461679,2	-384,4	-30,4	Ok
186	1275	-200	-36535,9	511742,9	-414,4	-33,2	Ok
186	1275	-250	-36477,4	447795,9	-375,8	-29,6	Ok
186	1275	-300	-36449,9	375391,8	-336,2	-26,0	Ok
186	1275	-350	-36417,9	304105,8	-301,6	-23,0	Ok
186	1275	-400	-36381,5	235909,3	-271,0	-20,3	Ok
186	1275	-450	-36336,5	171979,2	-242,3	-17,8	Ok
186	1275	-500	-36278,8	114037,6	-216,2	-15,5	Ok
186	1275	-550	-36212,7	66891,3	-194,9	-13,6	Ok
186	1275	-600	-36142,6	30966,7	-178,6	-12,2	Ok
183	1275	-650	-37160,9	4989,0	-171,6	-11,5	Ok
184	1275	-700	-37075,1	9167,2	-173,1	-11,6	Ok
184	1275	-750	-36991,1	15617,6	-175,6	-11,9	Ok
186	1275	-800	-35824	28934,4	-176,2	-12,0	Ok
184	1275	-800	-36903,4	18809,8	-176,6	-11,9	Ok
204	1275	-800	-33073,1	14486,6	-157,2	-10,6	Ok
186	1275	-850	-35735,4	30567,6	-176,5	-12,1	Ok
184	1275	-850	-36812,1	19614,0	-176,5	-12,0	Ok
204	1275	-850	-32991,2	15476,0	-157,3	-10,6	Ok
186	1275	-900	-35643,4	29512,1	-175,6	-12,0	Ok
184	1275	-900	-36717,3	18776,6	-175,7	-11,9	Ok
204	1275	-900	-32906,3	15048,1	-156,7	-10,6	Ok
186	1275	-950	-35548,1	26745,5	-174,0	-11,8	Ok
184	1275	-950	-36619,1	16908,3	-174,5	-11,8	Ok
204	1275	-950	-32818,3	13709,2	-155,7	-10,5	Ok
186	1275	-1000	-35449,6	23036,8	-171,9	-11,7	Ok
184	1275	-1000	-36517,6	14487	-172,9	-11,7	Ok
204	1275	-1000	-32727,4	11859,0	-154,5	-10,4	Ok
184	1275	-1050	-36413,0	11869,2	-171,3	-11,5	Ok
184	1275	-1100	-36305,3	9306,8	-169,6	-11,4	Ok
184	1275	-1150	-36194,7	6964,9	-168,1	-11,3	Ok
184	1275	-1200	-36081,2	4940,2	-166,7	-11,2	Ok
184	1275	-1250	-35964,9	3277,8	-165,4	-11,1	Ok
183	1275	-1300	-35851,5	516,3	-163,4	-10,9	Ok
183	1275	-1350	-35730,0	293,0	-162,9	-10,9	Ok
183	1275	-1400	-35606,1	131,2	-162,3	-10,8	Ok
183	1275	-1450	-35479,8	33,0	-161,7	-10,8	Ok
183	1275	-1500	-35479,8	0	-161,7	-10,8	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 344 di
378

1275	186	1275	0	-36978,7	1386950	1542,7	-95,1
1275	200	1275	0	-34844,8	1363029	1561,1	-93,7
1275	172	1275	0	-35945,4	1379245	1559,0	-94,7

Valori massimi SLE condizioni rare:

Ten.massima CLS = 95,1 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 1561,1 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1275	0	-34048,0	627503,3	0	Ok
210	1275	-50	-34009,4	188149,6	0	Ok
210	1275	-100	-33901,2	100058,1	0	Ok
210	1275	-150	-33756,0	231790,9	0	Ok
210	1275	-200	-33640,3	250852,8	0	Ok
210	1275	-250	-33586,4	218322,8	0	Ok
210	1275	-300	-33561,1	182502	0	Ok
210	1275	-350	-33531,6	147373,1	0	Ok
210	1275	-400	-33498,1	113870,5	0	Ok
210	1275	-450	-33456,7	82541,9	0	Ok
210	1275	-500	-33403,5	54220,5	0	Ok
210	1275	-550	-33342,7	31272,7	0	Ok
210	1275	-600	-33278,1	13875,1	0	Ok
208	1275	-650	-33936,1	2876,9	0	Ok
208	1275	-700	-33862,8	2653,8	0	Ok
210	1275	-750	-33063,2	12118,4	0	Ok
210	1275	-800	-32984,8	14637,9	0	Ok
210	1275	-850	-32903,2	15286,9	0	Ok
210	1275	-900	-32818,5	14648,7	0	Ok
210	1275	-950	-32730,7	13201,1	0	Ok
210	1275	-1000	-32640,0	11317,6	0	Ok
210	1275	-1050	-32546,5	9277,7	0	Ok
210	1275	-1100	-32450,3	7278,7	0	Ok
208	1275	-1150	-33058,7	300,5	0	Ok
208	1275	-1200	-32955,1	203,7	0	Ok
208	1275	-1250	-32848,9	135,1	0	Ok
208	1275	-1300	-32740,3	86,9	0	Ok
208	1275	-1350	-32629,4	51,8	0	Ok
208	1275	-1400	-32516,2	25,6	0	Ok
208	1275	-1450	-32400,9	7,5	0	Ok
208	1275	-1500	-32400,9	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1275	210	1275	0	-34048,0	627503,3	0

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	1275	0	-34051,6	119520,9	-15,0	0	Ok
215	1275	-50	-34013,1	80832,2	-13,5	0	Ok
215	1275	-100	-33904,8	48736,1	-12,2	0	Ok
215	1275	-150	-33759,7	27285,9	-11,3	0	Ok
215	1275	-200	-33643,9	17076,8	-10,9	0	Ok

215	1275	-250	-33590,1	13193,5	-10,7	0	Ok
215	1275	-300	-33564,7	10489,2	-10,6	0	Ok
215	1275	-350	-33535,2	8141,4	-10,5	0	Ok
215	1275	-400	-33501,7	6182,9	-10,4	0	Ok
215	1275	-450	-33460,3	4674,8	-10,4	0	Ok
215	1275	-500	-33407,1	3720,6	-10,3	0	Ok
215	1275	-550	-33346,2	3258,1	-10,3	0	Ok
215	1275	-600	-33281,7	3021,4	-10,2	0	Ok
215	1275	-650	-33213,5	2822,1	-10,2	0	Ok
215	1275	-700	-33141,8	2585,3	-10,2	0	Ok
215	1275	-750	-33066,7	2301,3	-10,1	0	Ok
215	1275	-800	-32988,3	1986,0	-10,1	0	Ok
215	1275	-850	-32906,7	1661,9	-10,0	0	Ok
215	1275	-900	-32822,0	1349,2	-10,0	0	Ok
215	1275	-950	-32734,2	1063,0	-9,9	0	Ok
215	1275	-1000	-32643,5	813,0	-9,9	0	Ok
215	1275	-1050	-32550,0	603,7	-9,9	0	Ok
215	1275	-1100	-32453,7	435,8	-9,9	0	Ok
215	1275	-1150	-32354,8	306,4	-9,8	0	Ok
215	1275	-1200	-32253,4	210,4	-9,8	0	Ok
215	1275	-1250	-32149,5	141,1	-9,8	0	Ok
215	1275	-1300	-32043,2	91,0	-9,7	0	Ok
215	1275	-1350	-31934,6	54,0	-9,7	0	Ok
215	1275	-1400	-31823,9	26,4	-9,7	0	Ok
215	1275	-1450	-31711,0	7,7	-9,6	0	Ok
215	1275	-1500	-31711,0	0	-9,6	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1275	215	1275	0	-34051,6	119520,9	-15,0	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 15,0 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 1324

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1324	SLU STR.	-3158,0	-5985,1	-44970	-495800	193000	0
2	1324	SLU STR.	9777,1	14870	-44940	1019000	-783000	0
3	1324	SLU STR.	-3137,6	-5717,2	-34820	-459500	202200	0
4	1324	SLU STR.	9797,5	15140	-34790	1055000	-773800	0
5	1324	SLU STR.	-3155,9	-5965,5	-44430	-493000	192900	0
6	1324	SLU STR.	9779,2	14890	-44400	1022000	-783100	0
7	1324	SLU STR.	-3135,4	-5697,7	-34290	-456700	202100	0
8	1324	SLU STR.	9799,7	15160	-34250	1058000	-773900	0
9	1324	SLU STR.	-3152,3	-5927,9	-43930	-478800	192800	0
10	1324	SLU STR.	9782,8	14930	-43900	1036000	-783200	0
11	1324	SLU STR.	-3131,8	-5660,1	-33780	-442500	202000	0
12	1324	SLU STR.	9803,3	15200	-33750	1072000	-774000	0
13	1324	SLU STR.	-3150,7	-5894,2	-45580	-490100	192700	0
14	1324	SLU STR.	9784,4	14960	-45540	1024000	-783300	0
15	1324	SLU STR.	-3130,3	-5626,3	-35430	-453800	201900	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 346 di
378

16	1324	SLU STR.	9804,8	15230	-35400	1061000	-774000	0
17	1324	SLU STR.	-5206,9	-9256,8	-43900	-730600	347700	0
18	1324	SLU STR.	16350	25510	-43850	1794000	-1279000	0
19	1324	SLU STR.	-5186,4	-8988,9	-33750	-694300	357000	0
20	1324	SLU STR.	16370	25770	-33700	1830000	-1270000	0
21	1324	SLU STR.	-3153,7	-5946,0	-43900	-490200	192800	0
22	1324	SLU STR.	9781,4	14910	-43860	1024000	-783200	0
23	1324	SLU STR.	-3133,3	-5678,1	-33750	-453900	202000	0
24	1324	SLU STR.	9801,8	15180	-33720	1061000	-774000	0
25	1324	SLU STR.	-2690,4	-5987,4	-45100	-496400	160700	0
26	1324	SLU STR.	10240	14870	-45060	1018000	-815300	0
27	1324	SLU STR.	-2670,0	-5719,5	-34950	-460100	169900	0
28	1324	SLU STR.	10270	15140	-34920	1054000	-806100	0
29	1324	SLU STR.	-2688,3	-5967,8	-44560	-493600	160600	0
30	1324	SLU STR.	10250	14890	-44530	1021000	-815400	0
31	1324	SLU STR.	-2667,8	-5700,0	-34410	-457300	169800	0
32	1324	SLU STR.	10270	15160	-34380	1057000	-806200	0
33	1324	SLU STR.	-2684,7	-5930,2	-44050	-479400	160500	0
34	1324	SLU STR.	10250	14930	-44020	1035000	-815500	0
35	1324	SLU STR.	-2664,2	-5662,4	-33910	-443100	169700	0
36	1324	SLU STR.	10270	15200	-33870	1071000	-806300	0
37	1324	SLU STR.	-2683,2	-5896,5	-45700	-490700	160400	0
38	1324	SLU STR.	10250	14960	-45670	1024000	-815600	0
39	1324	SLU STR.	-2662,7	-5628,6	-35560	-454400	169600	0
40	1324	SLU STR.	10270	15230	-35520	1060000	-806400	0
41	1324	SLU STR.	-4739,3	-9259,1	-44030	-731200	315400	0
42	1324	SLU STR.	16820	25500	-43970	1793000	-1311000	0
43	1324	SLU STR.	-4718,9	-8991,2	-33880	-694900	324600	0
44	1324	SLU STR.	16840	25770	-33830	1829000	-1302000	0
45	1324	SLU STR.	-2374,4	-5949,8	-44110	-491200	138900	0
46	1324	SLU STR.	10560	14910	-44080	1023000	-837100	0
47	1324	SLU STR.	-2353,9	-5681,9	-33960	-454900	148200	0
48	1324	SLU STR.	10580	15180	-33930	1060000	-827800	0
49	1324	SLU STR.	-2686,1	-5948,3	-44020	-490800	160500	0
50	1324	SLU STR.	10250	14910	-43990	1024000	-815500	0
51	1324	SLU STR.	-2665,7	-5680,4	-33870	-454500	169700	0
52	1324	SLU STR.	10270	15180	-33840	1060000	-806300	0
53	1324	SLU STR.	-3391,8	-5983,9	-44910	-495400	209200	0
54	1324	SLU STR.	9543,3	14870	-44870	1019000	-766800	0
55	1324	SLU STR.	-3371,4	-5716,1	-34760	-459100	218400	0
56	1324	SLU STR.	9563,7	15140	-34730	1055000	-757600	0
57	1324	SLU STR.	-3389,7	-5964,4	-44370	-492600	209100	0
58	1324	SLU STR.	9545,4	14890	-44340	1022000	-766900	0
59	1324	SLU STR.	-3369,2	-5696,5	-34220	-456300	218300	0
60	1324	SLU STR.	9565,9	15160	-34190	1058000	-757700	0
61	1324	SLU STR.	-3386,1	-5926,8	-43860	-478500	209000	0
62	1324	SLU STR.	9549,0	14930	-43830	1036000	-767000	0
63	1324	SLU STR.	-3365,6	-5658,9	-33720	-442200	218200	0
64	1324	SLU STR.	9569,5	15200	-33680	1072000	-757800	0
65	1324	SLU STR.	-3384,5	-5893,0	-45510	-489800	208900	0
66	1324	SLU STR.	9550,6	14960	-45480	1025000	-767100	0
67	1324	SLU STR.	-3364,1	-5625,2	-35370	-453500	218100	0
68	1324	SLU STR.	9571,0	15230	-35330	1061000	-757900	0
69	1324	SLU STR.	-5440,7	-9255,6	-43840	-730200	363900	0
70	1324	SLU STR.	16120	25510	-43780	1794000	-1263000	0
71	1324	SLU STR.	-5420,2	-8987,8	-33690	-693900	373100	0
72	1324	SLU STR.	16140	25780	-33640	1830000	-1254000	0
73	1324	SLU STR.	-3387,5	-5944,8	-43830	-489800	209000	0
74	1324	SLU STR.	9547,6	14910	-43800	1025000	-767000	0
75	1324	SLU STR.	-3367,1	-5677,0	-33680	-453500	218200	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 347 di
378

76	1324	SLU STR.	9568,0	15180	-33650	1061000	-757800	0
77	1324	SLU STR.	-3543,4	-5944,1	-43790	-489600	219800	0
78	1324	SLU STR.	9391,7	14910	-43760	1025000	-756200	0
79	1324	SLU STR.	-3522,9	-5676,2	-33640	-453300	229000	0
80	1324	SLU STR.	9412,2	15180	-33610	1061000	-747000	0
81	1324	SLU STR.	-3013,2	-4921,9	-45850	-441600	173900	0
82	1324	SLU STR.	9921,9	15940	-45820	1073000	-802100	0
83	1324	SLU STR.	-2992,8	-4654,0	-35710	-405300	183200	0
84	1324	SLU STR.	9942,3	16200	-35670	1109000	-792800	0
85	1324	SLU STR.	-3011,1	-4902,3	-45320	-438800	173800	0
86	1324	SLU STR.	9924,0	15960	-45280	1076000	-802200	0
87	1324	SLU STR.	-2990,6	-4634,4	-35170	-402500	183100	0
88	1324	SLU STR.	9944,5	16220	-35140	1112000	-792900	0
89	1324	SLU STR.	-3007,5	-4864,7	-44810	-424700	173700	0
90	1324	SLU STR.	9927,6	15990	-44780	1090000	-802200	0
91	1324	SLU STR.	-2987,0	-4596,9	-34660	-388400	183000	0
92	1324	SLU STR.	9948,1	16260	-34630	1126000	-793000	0
93	1324	SLU STR.	-3005,9	-4831,0	-46460	-436000	173600	0
94	1324	SLU STR.	9929,2	16030	-46430	1079000	-802300	0
95	1324	SLU STR.	-2985,5	-4563,1	-36310	-399700	182900	0
96	1324	SLU STR.	9949,6	16290	-36280	1115000	-793100	0
97	1324	SLU STR.	-5062,1	-8193,5	-44780	-676400	328700	0
98	1324	SLU STR.	16500	26570	-44730	1848000	-1298000	0
99	1324	SLU STR.	-5041,6	-7925,7	-34640	-640100	337900	0
100	1324	SLU STR.	16520	26840	-34580	1884000	-1289000	0
101	1324	SLU STR.	-3008,9	-4882,7	-44780	-436000	173700	0
102	1324	SLU STR.	9926,2	15980	-44750	1079000	-802300	0
103	1324	SLU STR.	-2988,5	-4614,9	-34630	-399700	183000	0
104	1324	SLU STR.	9946,6	16240	-34600	1115000	-793000	0
105	1324	SLU STR.	-2912,4	-4173,9	-45370	-400000	161000	0
106	1324	SLU STR.	10020	16680	-45340	1115000	-815000	0
107	1324	SLU STR.	-2891,9	-3906,1	-35220	-363700	170200	0
108	1324	SLU STR.	10040	16950	-35190	1151000	-805800	0
109	1324	SLU STR.	-3299,4	-7017,7	-44090	-544500	211700	0
110	1324	SLU STR.	9635,6	13840	-44060	970100	-764300	0
111	1324	SLU STR.	-3279,0	-6749,8	-33940	-508200	220900	0
112	1324	SLU STR.	9656,1	14110	-33910	1006000	-755100	0
113	1324	SLU STR.	-3297,3	-6998,1	-43550	-541700	211600	0
114	1324	SLU STR.	9637,8	13860	-43520	972900	-764400	0
115	1324	SLU STR.	-3276,8	-6730,3	-33410	-505400	220800	0
116	1324	SLU STR.	9658,3	14130	-33370	1009000	-755200	0
117	1324	SLU STR.	-3293,7	-6960,5	-43050	-527500	211500	0
118	1324	SLU STR.	9641,4	13900	-43020	987100	-764500	0
119	1324	SLU STR.	-3273,2	-6692,7	-32900	-491200	220700	0
120	1324	SLU STR.	9661,9	14170	-32870	1023000	-755300	0
121	1324	SLU STR.	-3292,2	-6926,8	-44700	-538800	211400	0
122	1324	SLU STR.	9642,9	13930	-44660	975700	-764600	0
123	1324	SLU STR.	-3271,7	-6658,9	-34550	-502500	220600	0
124	1324	SLU STR.	9663,4	14200	-34520	1012000	-755400	0
125	1324	SLU STR.	-5348,3	-10290	-43020	-779300	366400	0
126	1324	SLU STR.	16210	24470	-42970	1745000	-1260000	0
127	1324	SLU STR.	-5327,9	-10020	-32870	-743000	375600	0
128	1324	SLU STR.	16230	24740	-32820	1781000	-1251000	0
129	1324	SLU STR.	-3295,1	-6978,6	-43020	-538900	211500	0
130	1324	SLU STR.	9640,0	13880	-42980	975700	-764500	0
131	1324	SLU STR.	-3274,7	-6710,7	-32870	-502600	220700	0
132	1324	SLU STR.	9660,4	14150	-32840	1012000	-755300	0
133	1324	SLU STR.	-3389,4	-7667,0	-42430	-571300	224000	0
134	1324	SLU STR.	9545,7	13190	-42400	943200	-752000	0
135	1324	SLU STR.	-3369,0	-7399,1	-32280	-535000	233200	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 348 di
378

136	1324	SLU STR.	9566,1	13460	-32250	979500	-742800	0
137	1324	SLE Rare	-2113,1	-4101,5	-33550	-345800	124700	0
138	1324	SLE Rare	6510,3	9803,9	-33530	663900	-526000	0
139	1324	SLE Rare	-2111,7	-4088,4	-33200	-344000	124600	0
140	1324	SLE Rare	6511,7	9816,9	-33170	665700	-526000	0
141	1324	SLE Rare	-2109,3	-4063,4	-32860	-334500	124600	0
142	1324	SLE Rare	6514,1	9842,0	-32840	675200	-526100	0
143	1324	SLE Rare	-2108,3	-4040,9	-33960	-342100	124500	0
144	1324	SLE Rare	6515,2	9864,5	-33940	667600	-526200	0
145	1324	SLE Rare	-3479,0	-6282,6	-32840	-502400	227800	0
146	1324	SLE Rare	10890	16890	-32810	1180000	-856600	0
147	1324	SLE Rare	-2110,2	-4075,4	-32840	-342100	124600	0
148	1324	SLE Rare	6513,2	9830,0	-32820	667600	-526100	0
149	1324	SLE Rare	-1801,4	-4103	-33640	-346300	103100	0
150	1324	SLE Rare	6822,0	9802,3	-33620	663400	-547500	0
151	1324	SLE Rare	-1799,9	-4090,0	-33280	-344400	103100	0
152	1324	SLE Rare	6823,5	9815,4	-33260	665300	-547600	0
153	1324	SLE Rare	-1797,5	-4064,9	-32940	-334900	103000	0
154	1324	SLE Rare	6825,9	9840,5	-32920	674800	-547700	0
155	1324	SLE Rare	-1796,5	-4042,4	-34040	-342500	102900	0
156	1324	SLE Rare	6826,9	9862,9	-34020	667200	-547700	0
157	1324	SLE Rare	-3167,3	-6284,1	-32930	-502800	206300	0
158	1324	SLE Rare	11210	16890	-32890	1180000	-878200	0
159	1324	SLE Rare	-1590,7	-4077,9	-32980	-342800	88630	0
160	1324	SLE Rare	7032,7	9827,4	-32960	666900	-562000	0
161	1324	SLE Rare	-1798,5	-4076,9	-32920	-342500	103000	0
162	1324	SLE Rare	6824,9	9828,4	-32900	667200	-547700	0
163	1324	SLE Rare	-2269,0	-4100,7	-33510	-345600	135500	0
164	1324	SLE Rare	6354,4	9804,6	-33490	664100	-515200	0
165	1324	SLE Rare	-2267,5	-4087,7	-33150	-343800	135400	0
166	1324	SLE Rare	6355,9	9817,7	-33130	665900	-515300	0
167	1324	SLE Rare	-2265,1	-4062,6	-32820	-334300	135300	0
168	1324	SLE Rare	6358,3	9842,7	-32790	675400	-515300	0
169	1324	SLE Rare	-2264,1	-4040,1	-33920	-341900	135300	0
170	1324	SLE Rare	6359,3	9865,2	-33890	667800	-515400	0
171	1324	SLE Rare	-3634,9	-6281,8	-32800	-502200	238600	0
172	1324	SLE Rare	10740	16890	-32760	1181000	-845800	0
173	1324	SLE Rare	-2266,1	-4074,6	-32800	-341900	135300	0
174	1324	SLE Rare	6357,3	9830,7	-32770	667800	-515300	0
175	1324	SLE Rare	-2370	-4074,1	-32770	-341800	142500	0
176	1324	SLE Rare	6253,4	9831,2	-32750	667900	-508100	0
177	1324	SLE Rare	-2016,6	-3392,7	-34140	-309800	112000	0
178	1324	SLE Rare	6606,8	10510	-34120	699900	-538700	0
179	1324	SLE Rare	-2015,1	-3379,6	-33780	-307900	111900	0
180	1324	SLE Rare	6608,3	10530	-33760	701800	-538800	0
181	1324	SLE Rare	-2012,7	-3354,6	-33450	-298500	111800	0
182	1324	SLE Rare	6610,7	10550	-33430	711200	-538800	0
183	1324	SLE Rare	-2011,7	-3332,1	-34550	-306000	111800	0
184	1324	SLE Rare	6611,7	10570	-34530	703700	-538900	0
185	1324	SLE Rare	-3382,5	-5573,8	-33430	-466300	215100	0
186	1324	SLE Rare	10990	17600	-33390	1217000	-869300	0
187	1324	SLE Rare	-2013,7	-3366,6	-33430	-306000	111800	0
188	1324	SLE Rare	6609,7	10540	-33410	703700	-538800	0
189	1324	SLE Rare	-1949,3	-2894,0	-33820	-282000	103300	0
190	1324	SLE Rare	6674,1	11010	-33800	727700	-547300	0
191	1324	SLE Rare	-2207,4	-4789,9	-32970	-378300	137100	0
192	1324	SLE Rare	6416	9115,5	-32950	631400	-513500	0
193	1324	SLE Rare	-2206,0	-4776,8	-32610	-376500	137100	0
194	1324	SLE Rare	6417,4	9128,5	-32590	633200	-513600	0
195	1324	SLE Rare	-2203,6	-4751,8	-32270	-367000	137000	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

BOX CARRI BOMBOLAI TABULATI
DI CALCOLO

REV. 00

Pag. 349 di
378

196	1324	SLE Rare	6419,8	9153,6	-32250	642700	-513600	0
197	1324	SLE Rare	-2202,5	-4729,3	-33370	-374600	136900	0
198	1324	SLE Rare	6420,9	9176,1	-33350	635100	-513700	0
199	1324	SLE Rare	-3573,3	-6971,0	-32250	-534900	240300	0
200	1324	SLE Rare	10800	16200	-32220	1148000	-844100	0
201	1324	SLE Rare	-2204,5	-4763,8	-32250	-374600	137000	0
202	1324	SLE Rare	6418,9	9141,6	-32230	635100	-513700	0
203	1324	SLE Rare	-2267,4	-5222,7	-31860	-396200	145300	0
204	1324	SLE Rare	6356,0	8682,6	-31840	613500	-505300	0
205	1324	SLE Freq.	-59,5	-813,6	-30950	-110000	-30350	0
206	1324	SLE Freq.	-61,0	-826,6	-31310	-111900	-30280	0
207	1324	SLE Freq.	-58,9	-805,6	-30970	-104900	-30350	0
208	1324	SLE Freq.	-58,2	-790,6	-31700	-110000	-30390	0
209	1324	SLE Freq.	-1770,5	-3572,6	-30960	-310300	98750	0
210	1324	SLE Freq.	5415,6	8015,2	-30940	531100	-443500	0
211	1324	SLE Freq.	44,4	-814,1	-30980	-110100	-37540	0
212	1324	SLE Freq.	-111,5	-813,3	-30940	-109900	-26760	0
213	1324	SLE Freq.	-27,4	-577,3	-31150	-97980	-34590	0
214	1324	SLE Freq.	-91,0	-1043,1	-30760	-120800	-26200	0
215	1324	SLE Quasi P.	-59,5	-813,6	-30950	-110000	-30350	0
216	1324	SLU A1 sism.	6843,1	1680,4	-37140	-9381,6	-528900	0
217	1324	SLU A1 sism.	5066,4	-3047,6	-30730	-216000	-308100	0
218	1324	SLU A1 sism.	-5185,5	1420,4	-31170	-4033,5	247400	0
219	1324	SLU A1 sism.	-6962,2	-3307,6	-24770	-210600	468200	0
220	1324	SLU A1 sism.	6807,7	1398,4	-37370	-34400	-518900	0
221	1324	SLU A1 sism.	5101,9	-2765,7	-30500	-191000	-318100	0
222	1324	SLU A1 sism.	-5220,9	1138,5	-31400	-29050	257400	0
223	1324	SLU A1 sism.	-6926,8	-3025,6	-24530	-185600	458200	0
224	1324	SLU A1 sism.	8223,3	918,7	-38280	-86830	-631800	0
225	1324	SLU A1 sism.	6446,6	-3809,3	-31870	-293400	-411000	0
226	1324	SLU A1 sism.	-6565,7	2182,1	-30030	73410	350300	0
227	1324	SLU A1 sism.	-8342,3	-2545,9	-23630	-133200	571100	0
228	1324	SLU A1 sism.	8187,9	636,7	-38510	-111800	-621800	0
229	1324	SLU A1 sism.	6482,0	-3527,4	-31640	-268400	-421100	0
230	1324	SLU A1 sism.	-6601,1	1900,2	-30260	48400	360400	0
231	1324	SLU A1 sism.	-8306,9	-2263,9	-23390	-108200	561100	0
232	1324	SLU A1 sism.	4705,9	7105,4	-42520	233500	-514800	0
233	1324	SLU A1 sism.	-1216,4	-8654,6	-21180	-455100	221200	0
234	1324	SLU A1 sism.	1097,3	7027,4	-40730	235100	-281900	0
235	1324	SLU A1 sism.	-4824,9	-8732,6	-19390	-453500	454100	0
236	1324	SLU A1 sism.	5119,9	6876,9	-42860	210300	-545700	0
237	1324	SLU A1 sism.	-802,3	-8883,1	-21520	-478400	190300	0
238	1324	SLU A1 sism.	683,3	7255,9	-40390	258400	-251000	0
239	1324	SLU A1 sism.	-5239,0	-8504,1	-19050	-430300	485000	0
240	1324	SLU A1 sism.	4587,8	6165,6	-43300	150100	-481300	0
241	1324	SLU A1 sism.	-1098,3	-7714,8	-20400	-371800	187800	0
242	1324	SLU A1 sism.	979,2	6087,6	-41510	151700	-248500	0
243	1324	SLU A1 sism.	-4706,9	-7792,8	-18610	-370100	420600	0
244	1324	SLU A1 sism.	5001,9	5937,1	-43640	126900	-512200	0
245	1324	SLU A1 sism.	-684,2	-7943,3	-20740	-395000	156900	0
246	1324	SLU A1 sism.	565,2	6316,1	-41160	175000	-217600	0
247	1324	SLU A1 sism.	-5120,9	-7564,3	-18270	-346900	451500	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 10 Ø 20 = 31,4 cmq

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. **350** di
378

Armatura a taglio - st. circolari:
tratto sup. (600 cm) Ø8 / 10, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
100	1324	0	-34584,1	31513,0	2282717	0,731	0,144	0,828	Ok
93	1324	0	-46460,3	5689,8	469301,6	0,143	0,194	0,149	Ok
100	1324	-50	-34544,9	19713,2	820833,2	0,263	0,144	0,518	Ok
93	1324	-50	-46407,7	3730,4	210509,5	0,064	0,194	0,098	Ok
234	1324	-100	-40551,7	1545,5	298790,7	0,093	0,169	0,041	Ok
93	1324	-100	-46260,0	1978,4	66490,2	0,020	0,193	0,052	Ok
100	1324	-100	-34435,0	9613,9	192463,2	0,062	0,144	0,253	Ok
100	1324	-150	-34287,5	2024,7	654715	0,210	0,143	0,053	Ok
93	1324	-150	-46061,9	615,8	100706,1	0,031	0,192	0,016	Ok
100	1324	-200	-34170,0	1778,2	752163,2	0,241	0,143	0,047	Ok
93	1324	-200	-45904,0	273,6	120060,4	0,037	0,192	0,007	Ok
98	1324	-200	-44196,2	1785,6	750292,2	0,231	0,185	0,047	Ok
100	1324	-250	-34115,3	2099,5	663446,8	0,213	0,143	0,055	Ok
93	1324	-250	-45830,5	328,8	107317,8	0,033	0,191	0,009	Ok
100	1324	-300	-34089,6	2079,2	558505,2	0,179	0,142	0,055	Ok
93	1324	-300	-45796,0	328,1	91025,5	0,028	0,191	0,009	Ok
100	1324	-350	-34059,6	1998,3	454571,4	0,146	0,142	0,053	Ok
93	1324	-350	-45755,7	317,4	74744,2	0,023	0,191	0,008	Ok
100	1324	-400	-34025,6	1880,2	354685	0,114	0,142	0,049	Ok
93	1324	-400	-45710,0	300,3	58993,7	0,018	0,191	0,008	Ok
100	1324	-450	-33983,5	1710,6	260708	0,084	0,142	0,045	Ok
93	1324	-450	-45653,5	274,9	44114,7	0,014	0,191	0,007	Ok
100	1324	-500	-33929,5	1400,6	175225,6	0,056	0,142	0,037	Ok
93	1324	-500	-45580,9	227,6	30551,7	0,009	0,190	0,006	Ok
100	1324	-550	-33867,7	1075,3	105263,1	0,034	0,141	0,028	Ok
93	1324	-550	-45497,9	177,2	19414,1	0,006	0,190	0,005	Ok
100	1324	-600	-33802,1	784,8	51627,1	0,017	0,141	0,021	Ok
93	1324	-600	-45409,8	131,7	10943,0	0,003	0,190	0,003	Ok
128	1324	-650	-32012,7	501,4	13190,8	0,004	0,134	0,013	Ok
93	1324	-650	-45316,8	92,6	5285,4	0,002	0,189	0,002	Ok
100	1324	-650	-33732,9	537,5	13040,7	0,004	0,141	0,014	Ok
234	1324	-700	-39639,1	76,5	17351,0	0,005	0,166	0,002	Ok
93	1324	-700	-45219,0	60,5	3652,9	0,001	0,189	0,002	Ok
100	1324	-700	-33660,1	336,1	15332,6	0,005	0,141	0,009	Ok
100	1324	-750	-33583,8	179,1	31729,6	0,010	0,140	0,005	Ok
93	1324	-750	-45116,5	35,6	5019,0	0,002	0,188	0,001	Ok
100	1324	-800	-33504,2	63,1	40560,9	0,013	0,140	0,002	Ok
93	1324	-800	-45009,5	17,9	6227,2	0,002	0,188	0,000	Ok
100	1324	-850	-33421,3	23,2	43605,1	0,014	0,140	0,001	Ok
93	1324	-850	-44898,2	9,6	6727,8	0,002	0,188	0,000	Ok
234	1324	-850	-39357,9	41,7	20418,7	0,006	0,164	0,001	Ok
100	1324	-900	-33335,2	73,7	42576,5	0,014	0,139	0,002	Ok
93	1324	-900	-44782,6	12,1	6631,4	0,002	0,187	0,000	Ok
98	1324	-900	-43116,5	74,5	42555,7	0,013	0,180	0,002	Ok
100	1324	-950	-33246,1	103,4	38910,7	0,013	0,139	0,003	Ok
93	1324	-950	-44662,8	15,9	6120,2	0,002	0,187	0,000	Ok
98	1324	-950	-43001,2	103,8	38855,6	0,012	0,180	0,003	Ok
100	1324	-1000	-33154,0	116,0	33748,0	0,011	0,139	0,003	Ok
93	1324	-1000	-44539,1	17,9	5359,7	0,002	0,186	0,000	Ok
98	1324	-1000	-42882,1	116,1	33675,5	0,010	0,179	0,003	Ok

100	1324	-1050	-33059,0	116,2	27952,4	0,009	0,138	0,003	Ok
93	1324	-1050	-44411,5	18,1	4482,3	0,001	0,186	0,000	Ok
100	1324	-1100	-32961,2	108,1	22144,8	0,007	0,138	0,003	Ok
93	1324	-1100	-44280,2	17,0	3586,6	0,001	0,185	0,000	Ok
100	1324	-1150	-32860,8	94,8	16743,0	0,005	0,137	0,002	Ok
93	1324	-1150	-44145,2	15,1	2740,5	0,001	0,184	0,000	Ok
100	1324	-1200	-32757,7	79,0	12002,2	0,004	0,137	0,002	Ok
93	1324	-1200	-44006,8	12,8	1987,4	0,001	0,184	0,000	Ok
100	1324	-1250	-32652,2	62,3	8054,1	0,003	0,136	0,002	Ok
93	1324	-1250	-43865,0	10,2	1351,1	0,000	0,183	0,000	Ok
100	1324	-1300	-32544,2	45,9	4940,8	0,002	0,136	0,001	Ok
93	1324	-1300	-43720,0	7,7	841,3	0,000	0,183	0,000	Ok
100	1324	-1350	-32434,0	30,7	2643,9	0,001	0,135	0,001	Ok
93	1324	-1350	-43571,8	5,2	458,3	0,000	0,182	0,000	Ok
100	1324	-1400	-32321,5	17,1	1107,5	0,000	0,135	0,000	Ok
93	1324	-1400	-43420,7	3,0	196,3	0,000	0,181	0,000	Ok
100	1324	-1450	-32206,9	5,1	254,8	0,000	0,135	0,000	Ok
93	1324	-1450	-43266,8	0,9	46,8	0,000	0,181	0,000	Ok
247	1324	-1500	-17011,1	1,4	0	0	0,071	0,000	Ok
93	1324	-1500	-43266,8	0,9	0	0	0,181	0,000	Ok
100	1324	-1500	-32206,9	5,1	0	0	0,135	0,000	Ok

Sezioni maggiormente sollecitate:

PL.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
1324	100	1324	0	-34584,1	31513,0	2282717	0,731	0,144	0,828
1324	93	1324	0	-46460,3	5689,8	469301,6	0,143	0,194	0,149

S/Su massime:

Ver. N/M = 0,731 < 1 Ok

Ver. (25) = 0,194 < 1 Ok

Ver. V = 0,828 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
186	1324	0	-33394,6	1495210	1861,4	-103,5	Ok
186	1324	-50	-33356,8	534825,3	-422,2	-34,4	Ok
186	1324	-100	-33250,6	141077,3	-214,4	-15,6	Ok
186	1324	-150	-33108,2	437717,3	-359,5	-28,6	Ok
186	1324	-200	-32994,7	499501,8	-398,1	-32,2	Ok
186	1324	-250	-32941,9	440005	-360,4	-28,7	Ok
186	1324	-300	-32917,1	370159,2	-320,1	-25,0	Ok
186	1324	-350	-32888,2	301055,6	-284,7	-21,8	Ok
186	1324	-400	-32855,3	234696,8	-254,4	-19,1	Ok
186	1324	-450	-32814,6	172306,2	-226,4	-16,7	Ok
186	1324	-500	-32762,5	115597,7	-200,9	-14,5	Ok
186	1324	-550	-32702,8	69244,1	-179,9	-12,6	Ok
186	1324	-600	-32639,5	33783,3	-163,8	-11,2	Ok
184	1324	-650	-33675,9	5240,7	-155,8	-10,4	Ok
184	1324	-700	-33603,2	7578,1	-156,6	-10,5	Ok
184	1324	-750	-33527,1	13783,7	-159,0	-10,7	Ok
186	1324	-800	-32351,8	27184,4	-159,6	-10,9	Ok
184	1324	-800	-33447,6	17114,5	-160,1	-10,8	Ok
204	1324	-800	-30844,5	13282,3	-146,5	-9,9	Ok
186	1324	-850	-32271,8	29117,7	-160,1	-10,9	Ok
184	1324	-850	-33364,8	18158,5	-160,2	-10,8	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 352 di
378

204	1324	-850	-30768,2	14380,2	-146,7	-9,9	Ok
186	1324	-900	-32188,7	28368,8	-159,4	-10,9	Ok
184	1324	-900	-33278,9	17590,5	-159,5	-10,8	Ok
204	1324	-900	-30688,9	14104,6	-146,2	-9,9	Ok
186	1324	-950	-32102,6	25886,2	-157,9	-10,8	Ok
184	1324	-950	-33190,0	15986,0	-158,4	-10,7	Ok
204	1324	-950	-30606,9	12933,5	-145,3	-9,8	Ok
186	1324	-1000	-32013,7	22424,3	-155,9	-10,6	Ok
184	1324	-1000	-33098	13803,5	-157,0	-10,6	Ok
204	1324	-1000	-30522,1	11248,3	-144,1	-9,7	Ok
184	1324	-1050	-33003,2	11389,5	-155,5	-10,5	Ok
184	1324	-1100	-32905,6	8991,7	-154,0	-10,4	Ok
184	1324	-1150	-32805,3	6775,6	-152,6	-10,2	Ok
184	1324	-1200	-32702,4	4840,9	-151,2	-10,1	Ok
184	1324	-1250	-32597,0	3237,3	-150,0	-10,0	Ok
184	1324	-1300	-32489,3	1978,7	-149,0	-10,0	Ok
183	1324	-1350	-32399,1	312,2	-147,7	-9,8	Ok
183	1324	-1400	-32286,8	134,0	-147,2	-9,8	Ok
183	1324	-1450	-32172,3	32,1	-146,7	-9,8	Ok
183	1324	-1500	-32172,3	0	-146,7	-9,8	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
1324	186	1324	0	-33394,6	1495210	1861,4	-103,5

Valori massimi SLE condizioni rare:

Ten.massima CLS = 103,5 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 1861,4 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1324	0	-30939,1	691885,9	0	Ok
210	1324	-50	-30904,0	248057,1	0	Ok
210	1324	-100	-30805,7	83234,1	0	Ok
210	1324	-150	-30673,8	210746,7	0	Ok
210	1324	-200	-30568,6	236840,2	0	Ok
210	1324	-250	-30519,7	208030,6	0	Ok
210	1324	-300	-30496,6	174757,8	0	Ok
210	1324	-350	-30469,9	141914	0	Ok
210	1324	-400	-30439,4	110432	0	Ok
210	1324	-450	-30401,8	80879,3	0	Ok
210	1324	-500	-30353,4	54068,3	0	Ok
210	1324	-550	-30298,1	32223,8	0	Ok
210	1324	-600	-30239,5	15620,5	0	Ok
208	1324	-650	-30919,2	2712,9	0	Ok
208	1324	-700	-30852,5	2481,1	0	Ok
210	1324	-750	-30044,2	10591,5	0	Ok
210	1324	-800	-29973,0	13164,7	0	Ok
210	1324	-850	-29898,8	13980,0	0	Ok
210	1324	-900	-29821,8	13551,9	0	Ok
210	1324	-950	-29742,1	12322,8	0	Ok
210	1324	-1000	-29659,7	10645,8	0	Ok
210	1324	-1050	-29574,7	8788,1	0	Ok
210	1324	-1100	-29487,2	6941,2	0	Ok
208	1324	-1100	-30211,9	389,3	0	Ok
214	1324	-1100	-29313,8	480,6	0	Ok
208	1324	-1150	-30119,8	270,8	0	Ok
208	1324	-1200	-30025,4	184,8	0	Ok

208	1324	-1250	-29928,7	124,1	0	Ok
208	1324	-1300	-29829,7	80,9	0	Ok
208	1324	-1350	-29728,7	48,8	0	Ok
208	1324	-1400	-29625,6	24,3	0	Ok
208	1324	-1450	-29520,5	7,2	0	Ok
208	1324	-1500	-29520,5	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1324	210	1324	0	-30939,1	691885,9	0

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	1324	0	-30952,5	114115,2	-13,9	0	Ok
215	1324	-50	-30917,5	76717,1	-12,4	0	Ok
215	1324	-100	-30819,1	45695,7	-11,2	0	Ok
215	1324	-150	-30687,1	25046,5	-10,3	0	Ok
215	1324	-200	-30581,9	15437,2	-9,9	0	Ok
215	1324	-250	-30533,0	11929,9	-9,7	0	Ok
215	1324	-300	-30509,9	9508,2	-9,6	0	Ok
215	1324	-350	-30483,1	7418,6	-9,6	0	Ok
215	1324	-400	-30452,7	5689,2	-9,5	0	Ok
215	1324	-450	-30415,0	4371,6	-9,4	0	Ok
215	1324	-500	-30366,7	3543,4	-9,4	0	Ok
215	1324	-550	-30311,4	3123,5	-9,3	0	Ok
215	1324	-600	-30252,7	2881,4	-9,3	0	Ok
215	1324	-650	-30190,7	2665,7	-9,3	0	Ok
215	1324	-700	-30125,5	2418,9	-9,2	0	Ok
215	1324	-750	-30057,3	2135,2	-9,2	0	Ok
215	1324	-800	-29986,0	1829,8	-9,2	0	Ok
215	1324	-850	-29911,8	1522,1	-9,1	0	Ok
215	1324	-900	-29834,8	1229,5	-9,1	0	Ok
215	1324	-950	-29755,0	964,7	-9,0	0	Ok
215	1324	-1000	-29672,6	735,6	-9,0	0	Ok
215	1324	-1050	-29587,6	545,5	-9,0	0	Ok
215	1324	-1100	-29500,1	394,2	-9,0	0	Ok
215	1324	-1150	-29410,2	278,4	-8,9	0	Ok
215	1324	-1200	-29318,0	192,9	-8,9	0	Ok
215	1324	-1250	-29223,5	130,9	-8,9	0	Ok
215	1324	-1300	-29126,9	85,5	-8,9	0	Ok
215	1324	-1350	-29028,2	51,3	-8,8	0	Ok
215	1324	-1400	-28927,5	25,2	-8,8	0	Ok
215	1324	-1450	-28825,0	7,4	-8,8	0	Ok
215	1324	-1500	-28825,0	0	-8,8	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1324	215	1324	0	-30952,5	114115,2	-13,9	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 13,9 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1366	SLU STR.	-8303,9	-6187,4	-39490	-525600	519400	0
2	1366	SLU STR.	28980	14510	-40850	965400	-2214000	0
3	1366	SLU STR.	-8433,3	-5865,8	-30560	-481400	549800	0
4	1366	SLU STR.	28860	14830	-31920	1010000	-2184000	0
5	1366	SLU STR.	-8312,8	-6163,4	-38980	-522200	520800	0
6	1366	SLU STR.	28980	14530	-40340	968900	-2213000	0
7	1366	SLU STR.	-8442,2	-5841,8	-30050	-477900	551200	0
8	1366	SLU STR.	28850	14850	-31400	1013000	-2183000	0
9	1366	SLU STR.	-8318,9	-6121,6	-38510	-507500	522100	0
10	1366	SLU STR.	28970	14570	-39870	983600	-2212000	0
11	1366	SLU STR.	-8448,2	-5800,0	-29580	-463200	552500	0
12	1366	SLU STR.	28840	14890	-30930	1028000	-2181000	0
13	1366	SLU STR.	-8304,2	-6100,5	-40130	-520400	520200	0
14	1366	SLU STR.	28980	14590	-41480	970600	-2214000	0
15	1366	SLU STR.	-8433,6	-5778,9	-31190	-476200	550500	0
16	1366	SLU STR.	28850	14910	-32550	1015000	-2183000	0
17	1366	SLU STR.	-14240	-9424,0	-38250	-755300	956200	0
18	1366	SLU STR.	47910	25060	-40520	1730000	-3600000	0
19	1366	SLU STR.	-14370	-9102,4	-29320	-711100	986600	0
20	1366	SLU STR.	47780	25390	-31580	1774000	-3570000	0
21	1366	SLU STR.	-8321,7	-6139,3	-38470	-518700	522300	0
22	1366	SLU STR.	28970	14550	-39830	972300	-2212000	0
23	1366	SLU STR.	-8451,1	-5817,8	-29530	-474500	552700	0
24	1366	SLU STR.	28840	14880	-30890	1017000	-2181000	0
25	1366	SLU STR.	-7846,1	-6198,5	-39870	-527900	488200	0
26	1366	SLU STR.	29440	14490	-41230	963100	-2246000	0
27	1366	SLU STR.	-7975,5	-5876,9	-30930	-483700	518600	0
28	1366	SLU STR.	29310	14820	-32290	1007000	-2215000	0
29	1366	SLU STR.	-7855	-6174,5	-39360	-524500	489700	0
30	1366	SLU STR.	29430	14520	-40720	966600	-2244000	0
31	1366	SLU STR.	-7984,4	-5852,9	-30420	-480200	520100	0
32	1366	SLU STR.	29300	14840	-31780	1011000	-2214000	0
33	1366	SLU STR.	-7861,0	-6132,7	-38890	-509800	490900	0
34	1366	SLU STR.	29430	14560	-40250	981300	-2243000	0
35	1366	SLU STR.	-7990,4	-5811,2	-29950	-465500	521300	0
36	1366	SLU STR.	29300	14880	-31310	1025000	-2212000	0
37	1366	SLU STR.	-7846,4	-6111,6	-40500	-522700	489000	0
38	1366	SLU STR.	29440	14580	-41860	968300	-2245000	0
39	1366	SLU STR.	-7975,8	-5790,0	-31570	-478500	519400	0
40	1366	SLU STR.	29310	14900	-32920	1013000	-2214000	0
41	1366	SLU STR.	-13780	-9435,1	-38630	-757600	925100	0
42	1366	SLU STR.	48360	25050	-40890	1727000	-3631000	0
43	1366	SLU STR.	-13910	-9113,5	-29690	-713400	955400	0
44	1366	SLU STR.	48240	25380	-31960	1772000	-3601000	0
45	1366	SLU STR.	-7558,7	-6157,9	-39100	-522500	470400	0
46	1366	SLU STR.	29730	14540	-40450	968500	-2263000	0
47	1366	SLU STR.	-7688,0	-5836,3	-30160	-478300	500700	0
48	1366	SLU STR.	29600	14860	-31520	1013000	-2233000	0
49	1366	SLU STR.	-7863,9	-6150,5	-38840	-521000	491100	0
50	1366	SLU STR.	29420	14540	-40200	970000	-2243000	0
51	1366	SLU STR.	-7993,3	-5828,9	-29910	-476800	521500	0
52	1366	SLU STR.	29300	14860	-31270	1014000	-2212000	0

53	1366	SLU STR.	-8532,8	-6181,8	-39310	-524500	535000	0
54	1366	SLU STR.	28760	14510	-40660	966500	-2199000	0
55	1366	SLU STR.	-8662,2	-5860,2	-30370	-480300	565400	0
56	1366	SLU STR.	28630	14830	-31730	1011000	-2168000	0
57	1366	SLU STR.	-8541,7	-6157,8	-38790	-521000	536400	0
58	1366	SLU STR.	28750	14540	-40150	970000	-2197000	0
59	1366	SLU STR.	-8671,1	-5836,2	-29860	-476800	566800	0
60	1366	SLU STR.	28620	14860	-31220	1014000	-2167000	0
61	1366	SLU STR.	-8547,8	-6116,0	-38320	-506300	537700	0
62	1366	SLU STR.	28740	14580	-39680	984700	-2196000	0
63	1366	SLU STR.	-8677,1	-5794,5	-29390	-462100	568000	0
64	1366	SLU STR.	28610	14900	-30750	1029000	-2166000	0
65	1366	SLU STR.	-8533,1	-6094,9	-39940	-519200	535700	0
66	1366	SLU STR.	28760	14600	-41300	971800	-2198000	0
67	1366	SLU STR.	-8662,5	-5773,4	-31000	-475000	566100	0
68	1366	SLU STR.	28630	14920	-32360	1016000	-2168000	0
69	1366	SLU STR.	-14470	-9418,4	-38060	-754200	971800	0
70	1366	SLU STR.	47680	25070	-40330	1731000	-3585000	0
71	1366	SLU STR.	-14600	-9096,8	-29130	-710000	1002000	0
72	1366	SLU STR.	47550	25390	-31390	1775000	-3554000	0
73	1366	SLU STR.	-8550,6	-6133,8	-38280	-517500	537900	0
74	1366	SLU STR.	28740	14560	-39640	973500	-2196000	0
75	1366	SLU STR.	-8680,0	-5812,2	-29340	-473300	568200	0
76	1366	SLU STR.	28610	14880	-30700	1018000	-2166000	0
77	1366	SLU STR.	-8703,2	-6130,1	-38150	-516800	548300	0
78	1366	SLU STR.	28590	14560	-39510	974300	-2186000	0
79	1366	SLU STR.	-8832,6	-5808,5	-29220	-472600	578600	0
80	1366	SLU STR.	28460	14880	-30580	1018000	-2155000	0
81	1366	SLU STR.	-8170,4	-5045,7	-39700	-455400	501700	0
82	1366	SLU STR.	29120	15650	-41060	1036000	-2232000	0
83	1366	SLU STR.	-8299,8	-4724,1	-30760	-411200	532100	0
84	1366	SLU STR.	28990	15970	-32120	1080000	-2202000	0
85	1366	SLU STR.	-8179,3	-5021,7	-39190	-451900	503100	0
86	1366	SLU STR.	29110	15670	-40540	1039000	-2231000	0
87	1366	SLU STR.	-8308,6	-4700,1	-30250	-407700	533500	0
88	1366	SLU STR.	28980	15990	-31610	1083000	-2200000	0
89	1366	SLU STR.	-8185,3	-4979,9	-38720	-437200	504400	0
90	1366	SLU STR.	29100	15710	-40070	1054000	-2229000	0
91	1366	SLU STR.	-8314,7	-4658,4	-29780	-393000	534700	0
92	1366	SLU STR.	28970	16030	-31140	1098000	-2199000	0
93	1366	SLU STR.	-8170,7	-4958,8	-40330	-450100	502400	0
94	1366	SLU STR.	29120	15730	-41690	1041000	-2231000	0
95	1366	SLU STR.	-8300,0	-4637,2	-31390	-405900	532800	0
96	1366	SLU STR.	28990	16060	-32750	1085000	-2201000	0
97	1366	SLU STR.	-14110	-8282,3	-38460	-685100	938500	0
98	1366	SLU STR.	48040	26210	-40720	1800000	-3618000	0
99	1366	SLU STR.	-14240	-7960,7	-29520	-640900	968900	0
100	1366	SLU STR.	47910	26530	-31790	1844000	-3587000	0
101	1366	SLU STR.	-8188,2	-4997,7	-38670	-448400	504600	0
102	1366	SLU STR.	29100	15700	-40030	1043000	-2229000	0
103	1366	SLU STR.	-8317,5	-4676,1	-29740	-404200	534900	0
104	1366	SLU STR.	28970	16020	-31100	1087000	-2199000	0
105	1366	SLU STR.	-8099,1	-4236,5	-38810	-401600	492800	0
106	1366	SLU STR.	29190	16460	-40170	1089000	-2241000	0
107	1366	SLU STR.	-8228,5	-3915,0	-29870	-357400	523100	0
108	1366	SLU STR.	29060	16780	-31230	1134000	-2211000	0
109	1366	SLU STR.	-8433,4	-7300,1	-39280	-590800	536700	0
110	1366	SLU STR.	28850	13390	-40640	900200	-2197000	0
111	1366	SLU STR.	-8562,8	-6978,6	-30340	-546600	567100	0
112	1366	SLU STR.	28730	13710	-31700	944400	-2167000	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 356 di
378

113	1366	SLU STR.	-8442,3	-7276,1	-38770	-587300	538100	0
114	1366	SLU STR.	28850	13420	-40130	903700	-2196000	0
115	1366	SLU STR.	-8571,7	-6954,5	-29830	-543100	568500	0
116	1366	SLU STR.	28720	13740	-31190	947900	-2165000	0
117	1366	SLU STR.	-8448,4	-7234,4	-38300	-572600	539400	0
118	1366	SLU STR.	28840	13460	-39660	918400	-2194000	0
119	1366	SLU STR.	-8577,7	-6912,8	-29360	-528400	569700	0
120	1366	SLU STR.	28710	13780	-30720	962600	-2164000	0
121	1366	SLU STR.	-8433,7	-7213,3	-39910	-585600	537500	0
122	1366	SLU STR.	28850	13480	-41270	905400	-2196000	0
123	1366	SLU STR.	-8563,1	-6891,7	-30980	-541400	567800	0
124	1366	SLU STR.	28730	13800	-32340	949600	-2166000	0
125	1366	SLU STR.	-14370	-10540	-38040	-820500	973500	0
126	1366	SLU STR.	47780	23950	-40300	1664000	-3583000	0
127	1366	SLU STR.	-14500	-10220	-29100	-776300	1004000	0
128	1366	SLU STR.	47650	24270	-31370	1709000	-3552000	0
129	1366	SLU STR.	-8451,2	-7252,1	-38250	-583900	539600	0
130	1366	SLU STR.	28840	13440	-39610	907100	-2194000	0
131	1366	SLU STR.	-8580,6	-6930,5	-29320	-539700	570000	0
132	1366	SLU STR.	28710	13760	-30680	951300	-2164000	0
133	1366	SLU STR.	-8537,6	-7993,9	-38110	-627300	551100	0
134	1366	SLU STR.	28750	12700	-39470	863700	-2183000	0
135	1366	SLU STR.	-8666,9	-7672,4	-29180	-583100	581500	0
136	1366	SLU STR.	28620	13020	-30540	907900	-2152000	0
137	1366	SLE Rare	-5490,7	-4253	-29410	-368200	334800	0
138	1366	SLE Rare	19370	9542,5	-30310	625800	-1488000	0
139	1366	SLE Rare	-5496,6	-4237,0	-29060	-365900	335700	0
140	1366	SLE Rare	19360	9558,5	-29970	628100	-1487000	0
141	1366	SLE Rare	-5500,7	-4209,1	-28750	-356100	336600	0
142	1366	SLE Rare	19360	9586,4	-29660	637900	-1486000	0
143	1366	SLE Rare	-5490,9	-4195,1	-29830	-364700	335300	0
144	1366	SLE Rare	19370	9600,4	-30730	629300	-1487000	0
145	1366	SLE Rare	-9448,4	-6410,7	-28580	-521300	626000	0
146	1366	SLE Rare	31980	16580	-30090	1135000	-2412000	0
147	1366	SLE Rare	-5502,6	-4221,0	-28720	-363600	336700	0
148	1366	SLE Rare	19360	9574,5	-29630	630400	-1486000	0
149	1366	SLE Rare	-5185,5	-4260,4	-29660	-369700	314000	0
150	1366	SLE Rare	19670	9535,1	-30560	624300	-1509000	0
151	1366	SLE Rare	-5191,4	-4244,4	-29320	-367400	315000	0
152	1366	SLE Rare	19670	9551,1	-30220	626600	-1508000	0
153	1366	SLE Rare	-5195,5	-4216,6	-29000	-357600	315800	0
154	1366	SLE Rare	19660	9579,0	-29910	636400	-1507000	0
155	1366	SLE Rare	-5185,7	-4202,5	-30080	-366200	314500	0
156	1366	SLE Rare	19670	9593,0	-30980	627800	-1508000	0
157	1366	SLE Rare	-9143,2	-6418,1	-28830	-522900	605200	0
158	1366	SLE Rare	32290	16570	-30340	1134000	-2432000	0
159	1366	SLE Rare	-4993,9	-4233,3	-29140	-366100	302100	0
160	1366	SLE Rare	19870	9562,2	-30050	627900	-1520000	0
161	1366	SLE Rare	-5197,3	-4228,4	-28970	-365100	315900	0
162	1366	SLE Rare	19660	9567,1	-29880	628900	-1507000	0
163	1366	SLE Rare	-5643,3	-4249,3	-29280	-367400	345200	0
164	1366	SLE Rare	19220	9546,2	-30190	626600	-1477000	0
165	1366	SLE Rare	-5649,2	-4233,3	-28940	-365100	346100	0
166	1366	SLE Rare	19210	9562,2	-29840	628900	-1476000	0
167	1366	SLE Rare	-5653,3	-4205,4	-28630	-355300	346900	0
168	1366	SLE Rare	19210	9590,1	-29530	638700	-1476000	0
169	1366	SLE Rare	-5643,5	-4191,4	-29700	-363900	345700	0
170	1366	SLE Rare	19220	9604,1	-30610	630100	-1477000	0
171	1366	SLE Rare	-9601,0	-6407,0	-28450	-520600	636400	0
172	1366	SLE Rare	31830	16590	-29960	1136000	-2401000	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 357 di
378

173	1366	SLE Rare	-5655,2	-4217,3	-28600	-362800	347100	0
174	1366	SLE Rare	19200	9578,3	-29500	631200	-1475000	0
175	1366	SLE Rare	-5756,9	-4214,8	-28510	-362300	354000	0
176	1366	SLE Rare	19100	9580,7	-29420	631700	-1469000	0
177	1366	SLE Rare	-5401,7	-3491,9	-29540	-321400	323000	0
178	1366	SLE Rare	19460	10300	-30450	672600	-1500000	0
179	1366	SLE Rare	-5407,6	-3475,9	-29200	-319000	323900	0
180	1366	SLE Rare	19450	10320	-30110	675000	-1499000	0
181	1366	SLE Rare	-5411,6	-3448,0	-28890	-309200	324800	0
182	1366	SLE Rare	19450	10350	-29790	684800	-1498000	0
183	1366	SLE Rare	-5401,9	-3434,0	-29960	-317900	323500	0
184	1366	SLE Rare	19460	10360	-30870	676100	-1499000	0
185	1366	SLE Rare	-9359,4	-5649,6	-28710	-474500	614200	0
186	1366	SLE Rare	32070	17340	-30220	1182000	-2423000	0
187	1366	SLE Rare	-5413,5	-3459,8	-28860	-316700	324900	0
188	1366	SLE Rare	19450	10340	-29760	677300	-1498000	0
189	1366	SLE Rare	-5354,2	-2952,4	-28950	-285500	317000	0
190	1366	SLE Rare	19500	10840	-29860	708500	-1506000	0
191	1366	SLE Rare	-5577,1	-4994,8	-29260	-411700	346300	0
192	1366	SLE Rare	19280	8800,7	-30170	582300	-1476000	0
193	1366	SLE Rare	-5583,0	-4978,8	-28920	-409300	347300	0
194	1366	SLE Rare	19280	8816,7	-29830	584700	-1475000	0
195	1366	SLE Rare	-5587	-4951,0	-28610	-399500	348100	0
196	1366	SLE Rare	19270	8844,5	-29510	594500	-1474000	0
197	1366	SLE Rare	-5577,2	-4936,9	-29680	-408200	346800	0
198	1366	SLE Rare	19280	8858,6	-30590	585800	-1476000	0
199	1366	SLE Rare	-9534,8	-7152,6	-28440	-564800	637500	0
200	1366	SLE Rare	31900	15840	-29950	1092000	-2400000	0
201	1366	SLE Rare	-5588,9	-4962,8	-28580	-407000	348200	0
202	1366	SLE Rare	19270	8832,7	-29490	587000	-1474000	0
203	1366	SLE Rare	-5646,5	-5457,4	-28490	-436000	355900	0
204	1366	SLE Rare	19210	8338,1	-29390	558000	-1467000	0
205	1366	SLE Freq.	392,3	-970,6	-27090	-133000	-94200	0
206	1366	SLE Freq.	398,2	-986,6	-27430	-135300	-95160	0
207	1366	SLE Freq.	393,5	-962,7	-27100	-128000	-94290	0
208	1366	SLE Freq.	400,0	-953,3	-27820	-133800	-95140	0
209	1366	SLE Freq.	-4540,1	-3707,8	-26910	-330200	267400	0
210	1366	SLE Freq.	16180	7788,5	-27660	498100	-1251000	0
211	1366	SLE Freq.	494,0	-973,1	-27170	-133500	-101100	0
212	1366	SLE Freq.	341,4	-969,4	-27040	-132800	-90740	0
213	1366	SLE Freq.	421,9	-716,9	-27130	-117400	-98140	0
214	1366	SLE Freq.	363,5	-1217,9	-27040	-147500	-90360	0
215	1366	SLE Quasi P.	392,3	-970,6	-27090	-133000	-94200	0
216	1366	SLU A1 sism.	7329,8	3052,8	-38150	112800	-598800	0
217	1366	SLU A1 sism.	5529,0	-3465,8	-36970	-331900	-375400	0
218	1366	SLU A1 sism.	-4744,5	1524,7	-17200	65880	187000	0
219	1366	SLU A1 sism.	-6545,3	-4994,0	-16020	-378800	410400	0
220	1366	SLU A1 sism.	7263,9	2183,9	-38570	36940	-586000	0
221	1366	SLU A1 sism.	5594,9	-2596,9	-36540	-256100	-388200	0
222	1366	SLU A1 sism.	-4810,4	655,7	-17630	-9945,6	199800	0
223	1366	SLU A1 sism.	-6479,4	-4125,0	-15600	-303000	397600	0
224	1366	SLU A1 sism.	8685,0	517,5	-40030	-120300	-699300	0
225	1366	SLU A1 sism.	6884,2	-6001,2	-38850	-565000	-475900	0
226	1366	SLU A1 sism.	-6099,7	4060	-15320	298900	287500	0
227	1366	SLU A1 sism.	-7900,5	-2458,7	-14140	-145700	510900	0
228	1366	SLU A1 sism.	8619,1	-351,5	-40450	-196100	-686500	0
229	1366	SLU A1 sism.	6950,1	-5132,2	-38430	-489200	-488700	0
230	1366	SLU A1 sism.	-6165,5	3191,1	-15740	223100	300300	0
231	1366	SLU A1 sism.	-7834,6	-1589,7	-13720	-69920	498100	0
232	1366	SLU A1 sism.	5204,7	10120	-32190	615200	-584400	0

233	1366	SLU A1 sism.	-797,9	-11610	-28260	-867100	160200	0
234	1366	SLU A1 sism.	1582,5	9664,6	-25910	601100	-348600	0
235	1366	SLU A1 sism.	-4420,2	-12060	-21980	-881200	396000	0
236	1366	SLU A1 sism.	5611,3	9362,5	-32760	545300	-614500	0
237	1366	SLU A1 sism.	-391,4	-12370	-28820	-937100	130100	0
238	1366	SLU A1 sism.	1175,9	10430	-25350	671000	-318500	0
239	1366	SLU A1 sism.	-4826,8	-11300	-21410	-811300	426100	0
240	1366	SLU A1 sism.	4985,1	7226,6	-33610	362400	-541700	0
241	1366	SLU A1 sism.	-578,3	-8709,3	-26840	-614400	117600	0
242	1366	SLU A1 sism.	1362,9	6768,1	-27330	348300	-306000	0
243	1366	SLU A1 sism.	-4200,6	-9167,7	-20560	-628500	353300	0
244	1366	SLU A1 sism.	5391,7	6466,0	-34170	292500	-571900	0
245	1366	SLU A1 sism.	-171,8	-9469,9	-27410	-684300	87410	0
246	1366	SLU A1 sism.	956,3	7528,7	-26760	418300	-275800	0
247	1366	SLU A1 sism.	-4607,2	-8407,1	-20000	-558500	383500	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 17 Ø 20 = 53,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 5, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
100	1366	0	-31786,1	54765	4033685	0,885	0,133	0,866	Ok
38	1366	0	-41860,0	32855,1	2444734	0,525	0,175	0,511	Ok
100	1366	-50	-31750,1	34479,2	1485787	0,326	0,133	0,545	Ok
38	1366	-50	-41812,6	20760,6	918353	0,197	0,175	0,323	Ok
100	1366	-100	-31649,1	16990,2	262184,5	0,058	0,132	0,269	Ok
38	1366	-100	-41679,5	10298,2	163557,6	0,035	0,174	0,160	Ok
100	1366	-150	-31513,6	3726,9	1094329	0,240	0,132	0,059	Ok
38	1366	-150	-41501,1	2346,7	646274,7	0,139	0,173	0,037	Ok
100	1366	-200	-31405,5	2942,2	1277909	0,281	0,131	0,047	Ok
38	1366	-200	-41358,7	1733,3	758732,8	0,163	0,173	0,027	Ok
100	1366	-250	-31355,2	3545,7	1130954	0,248	0,131	0,056	Ok
38	1366	-250	-41292,6	2100,7	672359,3	0,145	0,173	0,033	Ok
100	1366	-300	-31331,6	3520,7	953694,4	0,210	0,131	0,056	Ok
38	1366	-300	-41261,4	2087,7	567373,3	0,122	0,172	0,032	Ok
100	1366	-350	-31304,1	3390,3	777683,4	0,171	0,131	0,054	Ok
38	1366	-350	-41225,2	2011,9	463027,4	0,100	0,172	0,031	Ok
100	1366	-400	-31272,8	3195,0	608187,7	0,134	0,131	0,051	Ok
38	1366	-400	-41184,0	1897,1	362471,6	0,078	0,172	0,030	Ok
100	1366	-450	-31234,1	2911,4	448461,1	0,099	0,130	0,046	Ok
38	1366	-450	-41133,0	1729,8	267661,7	0,058	0,172	0,027	Ok
100	1366	-500	-31184,5	2389,9	302924,6	0,067	0,130	0,038	Ok
38	1366	-500	-41067,7	1421,4	181236	0,039	0,172	0,022	Ok
100	1366	-550	-31127,6	1840,4	183477,7	0,040	0,130	0,029	Ok
38	1366	-550	-40992,8	1096,0	110255,4	0,024	0,171	0,017	Ok
100	1366	-600	-31067,4	1347,9	91551,9	0,020	0,130	0,021	Ok
38	1366	-600	-40913,5	803,9	55626,2	0,012	0,171	0,013	Ok

98	1366	-650	-39719,1	925,9	25158,6	0,005	0,166	0,014	Ok
38	1366	-650	-40829,7	554,3	16138,8	0,003	0,171	0,009	Ok
100	1366	-650	-31003,7	927,4	24587,5	0,005	0,130	0,015	Ok
100	1366	-700	-30936,8	583,8	22918,6	0,005	0,129	0,009	Ok
38	1366	-700	-40741,6	350,2	13586,9	0,003	0,170	0,005	Ok
100	1366	-750	-30866,7	315,2	51743,2	0,011	0,129	0,005	Ok
38	1366	-750	-40649,2	190,5	30405,7	0,007	0,170	0,003	Ok
100	1366	-800	-30793,6	115,4	67404,9	0,015	0,129	0,002	Ok
38	1366	-800	-40552,9	72,1	39747,7	0,009	0,169	0,001	Ok
100	1366	-850	-30717,4	29,7	73092,4	0,016	0,128	0,000	Ok
38	1366	-850	-40452,5	19,6	43201,0	0,009	0,169	0,000	Ok
234	1366	-850	-25040,4	30,7	18003,7	0,004	0,105	0,000	Ok
100	1366	-900	-30638,3	118,9	71745,1	0,016	0,128	0,002	Ok
38	1366	-900	-40348,4	69,8	42474,0	0,009	0,169	0,001	Ok
100	1366	-950	-30556,4	171,3	65816,0	0,014	0,128	0,003	Ok
38	1366	-950	-40240,5	100,9	39013,7	0,008	0,168	0,002	Ok
100	1366	-1000	-30471,7	194,2	57256,2	0,013	0,127	0,003	Ok
38	1366	-1000	-40129	114,8	33976,7	0,007	0,168	0,002	Ok
100	1366	-1050	-30384,4	195,8	47548,0	0,010	0,127	0,003	Ok
38	1366	-1050	-40014,0	115,9	28243,8	0,006	0,167	0,002	Ok
100	1366	-1100	-30294,5	182,9	37760,4	0,008	0,127	0,003	Ok
38	1366	-1100	-39895,7	108,4	22451,4	0,005	0,167	0,002	Ok
100	1366	-1150	-30202,2	161,1	28616,6	0,006	0,126	0,003	Ok
38	1366	-1150	-39774,1	95,6	17031,2	0,004	0,166	0,001	Ok
100	1366	-1200	-30107,5	134,6	20562,5	0,005	0,126	0,002	Ok
38	1366	-1200	-39649,4	80,0	12250,3	0,003	0,166	0,001	Ok
100	1366	-1250	-30010,5	106,5	13832,7	0,003	0,125	0,002	Ok
38	1366	-1250	-39521,6	63,4	8250,0	0,002	0,165	0,001	Ok
100	1366	-1300	-29911,3	78,8	8508,3	0,002	0,125	0,001	Ok
38	1366	-1300	-39391,0	47,0	5080,7	0,001	0,165	0,001	Ok
100	1366	-1350	-29809,9	52,9	4566,5	0,001	0,125	0,001	Ok
38	1366	-1350	-39257,5	31,6	2730,8	0,001	0,164	0,000	Ok
100	1366	-1400	-29706,6	29,5	1919,5	0,000	0,124	0,000	Ok
38	1366	-1400	-39121,4	17,7	1149,9	0,000	0,163	0,000	Ok
100	1366	-1450	-29601,2	8,9	443,8	0,000	0,124	0,000	Ok
38	1366	-1450	-38982,6	5,3	266,6	0,000	0,163	0,000	Ok
231	1366	-1500	-12773,0	1,3	0	0	0,053	0,000	Ok
38	1366	-1500	-38982,6	5,3	0	0	0,163	0,000	Ok
100	1366	-1500	-29601,2	8,9	0	0	0,124	0,000	Ok

Sezioni maggiormente sollecitate:

PL.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
1366	100	1366	0	-31786,1	54765	4033685	0,885	0,133	0,866
1366	38	1366	0	-41860,0	32855,1	2444734	0,525	0,175	0,511

S/Su massime:

Ver. N/M = 0,885 < 1 Ok

Ver. (25) = 0,175 < 1 Ok

Ver. V = 0,866 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
186	1366	0	-30224,6	2696344	2832,7	-146,3	Ok
186	1366	-50	-30190,4	1001168	699,9	-54,9	Ok
186	1366	-100	-30094,3	178128,4	-198,7	-14,5	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 360 di
378

186	1366	-150	-29965,4	724280,7	-486,7	-39,8	Ok
186	1366	-200	-29862,7	847430,5	-559,5	-46,5	Ok
186	1366	-250	-29814,9	750345,3	-501,9	-41,2	Ok
186	1366	-300	-29792,4	632906,2	-432,1	-34,9	Ok
186	1366	-350	-29766,3	516253,2	-363,7	-28,7	Ok
186	1366	-400	-29736,5	403888,4	-300,8	-23,2	Ok
186	1366	-450	-29699,7	297979,6	-247,9	-18,7	Ok
186	1366	-500	-29652,5	201464,6	-206,5	-15,2	Ok
158	1366	-500	-29764,8	200538,3	-206,6	-15,2	Ok
204	1366	-500	-28834,7	115271,7	-167,3	-12,0	Ok
158	1366	-550	-29710,6	121672,5	-173,6	-12,4	Ok
158	1366	-600	-29653,1	60965,8	-148,2	-10,3	Ok
158	1366	-650	-29592,3	16831,1	-129,6	-8,8	Ok
156	1366	-650	-30221,0	11047,2	-129,8	-8,7	Ok
204	1366	-650	-28667,6	10597,2	-123,2	-8,3	Ok
158	1366	-700	-29528,5	15008,6	-128,6	-8,7	Ok
156	1366	-700	-30155,8	9098,4	-128,7	-8,6	Ok
204	1366	-700	-28605,8	8034,8	-121,9	-8,2	Ok
158	1366	-750	-29461,6	33969,6	-136,2	-9,3	Ok
158	1366	-800	-29391,7	44341,9	-140,2	-9,7	Ok
158	1366	-850	-29319,0	48137,9	-141,5	-9,8	Ok
158	1366	-900	-29243,5	47286,2	-140,8	-9,7	Ok
158	1366	-950	-29165,3	43403,2	-138,9	-9,6	Ok
158	1366	-1000	-29084,5	37776,3	-136,2	-9,3	Ok
158	1366	-1050	-29001,2	31384,5	-133,2	-9,1	Ok
158	1366	-1100	-28915,4	24934,3	-130,2	-8,9	Ok
158	1366	-1150	-28827,3	18904,0	-127,3	-8,6	Ok
158	1366	-1200	-28736,9	13589,3	-124,7	-8,4	Ok
156	1366	-1200	-29347,4	8145,6	-125,0	-8,4	Ok
204	1366	-1200	-27838,9	7760,8	-118,6	-8,0	Ok
156	1366	-1250	-29252,9	5487,3	-123,5	-8,3	Ok
156	1366	-1300	-29156,2	3380,4	-122,2	-8,2	Ok
156	1366	-1350	-29057,4	1817,6	-121,1	-8,1	Ok
156	1366	-1400	-28956,6	765,7	-120,0	-8,0	Ok
156	1366	-1450	-28853,9	177,7	-119,5	-8,0	Ok
156	1366	-1500	-28853,9	0	-119,5	-8,0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
1366	186	1366	0	-30224,6	2696344	2832,7	-146,3

Valori massimi SLE condizioni rare:

Ten.massima CLS = 146,3 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 2832,7 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1366	0	-27660,3	1346851	0,085	Ok
210	1366	-50	-27628,9	514338,2	0	Ok
210	1366	-100	-27541,0	97279,5	0	Ok
210	1366	-150	-27423,1	349542,5	0	Ok
210	1366	-200	-27329,1	411540,8	0	Ok
210	1366	-250	-27285,3	364996,4	0	Ok
210	1366	-300	-27264,8	308146,2	0	Ok
210	1366	-350	-27240,8	251609,6	0	Ok
210	1366	-400	-27213,6	197103,1	0	Ok
210	1366	-450	-27179,9	145696,5	0	Ok
210	1366	-500	-27136,7	98827,3	0	Ok
210	1366	-550	-27087,3	60324,7	0	Ok

210	1366	-600	-27034,8	30708,7	0	Ok
210	1366	-650	-26979,5	9491,6	0	Ok
210	1366	-700	-26921,2	7560,7	0	Ok
210	1366	-750	-26860,2	16435,4	0	Ok
210	1366	-800	-26796,6	21486,4	0	Ok
210	1366	-850	-26730,3	23373,9	0	Ok
210	1366	-900	-26661,4	22999,2	0	Ok
210	1366	-950	-26590,1	21140,6	0	Ok
210	1366	-1000	-26516,5	18423,1	0	Ok
210	1366	-1050	-26440,5	15324,1	0	Ok
210	1366	-1100	-26362,3	12188,9	0	Ok
210	1366	-1150	-26282,0	9252,2	0	Ok
210	1366	-1200	-26199,6	6659,6	0	Ok
210	1366	-1250	-26115,1	4488,4	0	Ok
210	1366	-1300	-26028,8	2766,6	0	Ok
208	1366	-1350	-26091,9	54,3	0	Ok
208	1366	-1400	-26001,4	30,1	0	Ok
208	1366	-1450	-25909,2	9,7	0	Ok
208	1366	-1500	-25909,2	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1366	210	1366	0	-27660,3	1346851	0,085

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0,085 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	1366	0	-27085,2	162997,2	-13,1	0	Ok
215	1366	-50	-27054,5	112165	-11,4	0	Ok
215	1366	-100	-26968,4	67147,1	-9,8	0	Ok
215	1366	-150	-26852,9	34457,1	-8,6	0	Ok
215	1366	-200	-26760,8	17321,9	-8,0	0	Ok
215	1366	-250	-26718,0	11917,5	-7,8	0	Ok
215	1366	-300	-26697,9	8872,7	-7,7	0	Ok
215	1366	-350	-26674,4	6494,5	-7,6	0	Ok
215	1366	-400	-26647,8	4860,1	-7,5	0	Ok
215	1366	-450	-26614,8	4074,1	-7,5	0	Ok
215	1366	-500	-26572,5	4029,4	-7,5	0	Ok
215	1366	-550	-26524,1	4163,7	-7,5	0	Ok
215	1366	-600	-26472,7	4143,3	-7,5	0	Ok
215	1366	-650	-26418,5	3922,7	-7,4	0	Ok
215	1366	-700	-26361,5	3545,7	-7,4	0	Ok
215	1366	-750	-26301,8	3074,6	-7,4	0	Ok
215	1366	-800	-26239,4	2566,1	-7,3	0	Ok
215	1366	-850	-26174,5	2064,6	-7,3	0	Ok
215	1366	-900	-26107,1	1601,2	-7,3	0	Ok
215	1366	-950	-26037,3	1195,5	-7,2	0	Ok
215	1366	-1000	-25965,2	857,3	-7,2	0	Ok
215	1366	-1050	-25890,8	589,4	-7,2	0	Ok
215	1366	-1100	-25814,2	389,3	-7,1	0	Ok
215	1366	-1150	-25735,5	251,0	-7,1	0	Ok
215	1366	-1200	-25654,8	164,8	-7,1	0	Ok
215	1366	-1250	-25572,2	115,2	-7,1	0	Ok
215	1366	-1300	-25487,6	83,5	-7,0	0	Ok
215	1366	-1350	-25401,3	56,5	-7,0	0	Ok

215	1366	-1400	-25313,2	30,8	-7,0	0	Ok
215	1366	-1450	-25223,4	9,7	-7,0	0	Ok
215	1366	-1500	-25223,4	0	-7,0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1366	215	1366	0	-27085,2	162997,2	-13,1	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 13,1 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 1448

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1448	SLU STR.	9217,4	5407,8	-56740	479000	-787500	0
2	1448	SLU STR.	-27400	-13680	-57210	-921900	1941000	0
3	1448	SLU STR.	9095,9	5194,9	-43780	443500	-754300	0
4	1448	SLU STR.	-27520	-13900	-44250	-957300	1974000	0
5	1448	SLU STR.	9210,4	5397,1	-56130	477100	-786000	0
6	1448	SLU STR.	-27410	-13690	-56600	-923800	1942000	0
7	1448	SLU STR.	9088,8	5184,2	-43170	441700	-752800	0
8	1448	SLU STR.	-27530	-13910	-43650	-959200	1976000	0
9	1448	SLU STR.	9182,2	5398,0	-57120	485700	-781200	0
10	1448	SLU STR.	-27430	-13690	-57600	-915200	1947000	0
11	1448	SLU STR.	9060,6	5185,1	-44160	450300	-748000	0
12	1448	SLU STR.	-27550	-13910	-44640	-950600	1980000	0
13	1448	SLU STR.	9215,2	5355,3	-55640	462800	-786100	0
14	1448	SLU STR.	-27400	-13740	-56110	-938000	1942000	0
15	1448	SLU STR.	9093,6	5142,4	-42680	427400	-752800	0
16	1448	SLU STR.	-27520	-13950	-43150	-973500	1976000	0
17	1448	SLU STR.	15020	8416,9	-55450	697600	-1218000	0
18	1448	SLU STR.	-46010	-23400	-56240	-1637000	3330000	0
19	1448	SLU STR.	14890	8204,0	-42490	662200	-1184000	0
20	1448	SLU STR.	-46130	-23620	-43280	-1673000	3363000	0
21	1448	SLU STR.	9203,3	5386,4	-55520	475300	-784500	0
22	1448	SLU STR.	-27410	-13710	-56000	-925600	1944000	0
23	1448	SLU STR.	9081,8	5173,5	-42560	439800	-751200	0
24	1448	SLU STR.	-27530	-13920	-43040	-961000	1977000	0
25	1448	SLU STR.	9690,3	5383,3	-56380	475900	-819300	0
26	1448	SLU STR.	-26930	-13710	-56850	-924900	1909000	0
27	1448	SLU STR.	9568,8	5170,4	-43420	440500	-786100	0
28	1448	SLU STR.	-27050	-13920	-43890	-960400	1942000	0
29	1448	SLU STR.	9683,3	5372,6	-55770	474100	-817800	0
30	1448	SLU STR.	-26930	-13720	-56240	-926800	1911000	0
31	1448	SLU STR.	9561,7	5159,7	-42810	438700	-784600	0
32	1448	SLU STR.	-27050	-13930	-43280	-962200	1944000	0
33	1448	SLU STR.	9655,0	5373,4	-56760	482700	-813100	0
34	1448	SLU STR.	-26960	-13720	-57230	-918200	1915000	0
35	1448	SLU STR.	9533,5	5160,5	-43800	447200	-779800	0
36	1448	SLU STR.	-27080	-13930	-44270	-953600	1949000	0
37	1448	SLU STR.	9688,0	5330,7	-55280	459800	-817900	0
38	1448	SLU STR.	-26930	-13760	-55750	-941100	1911000	0
39	1448	SLU STR.	9566,5	5117,8	-42320	424400	-784700	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 363 di
378

40	1448	SLU STR.	-27050	-13970	-42790	-976500	1944000	0
41	1448	SLU STR.	15490	8392,3	-55090	694600	-1249000	0
42	1448	SLU STR.	-45540	-23430	-55880	-1640000	3298000	0
43	1448	SLU STR.	15370	8179,4	-42130	659200	-1216000	0
44	1448	SLU STR.	-45660	-23640	-42920	-1676000	3331000	0
45	1448	SLU STR.	9991,5	5345,5	-54920	470200	-837500	0
46	1448	SLU STR.	-26620	-13750	-55390	-930700	1891000	0
47	1448	SLU STR.	9869,9	5132,6	-41960	434800	-804300	0
48	1448	SLU STR.	-26750	-13960	-42440	-966100	1924000	0
49	1448	SLU STR.	9676,2	5361,9	-55160	472200	-816300	0
50	1448	SLU STR.	-26940	-13730	-55640	-928600	1912000	0
51	1448	SLU STR.	9554,7	5149,0	-42200	436800	-783100	0
52	1448	SLU STR.	-27060	-13940	-42680	-964100	1945000	0
53	1448	SLU STR.	8981,0	5420,1	-56920	480500	-771600	0
54	1448	SLU STR.	-27630	-13670	-57390	-920400	1957000	0
55	1448	SLU STR.	8859,4	5207,2	-43960	445000	-738400	0
56	1448	SLU STR.	-27760	-13880	-44430	-955800	1990000	0
57	1448	SLU STR.	8973,9	5409,4	-56310	478600	-770100	0
58	1448	SLU STR.	-27640	-13680	-56780	-922300	1958000	0
59	1448	SLU STR.	8852,4	5196,5	-43350	443200	-736800	0
60	1448	SLU STR.	-27760	-13900	-43830	-957700	1992000	0
61	1448	SLU STR.	8945,7	5410,3	-57300	487200	-765300	0
62	1448	SLU STR.	-27670	-13680	-57780	-913700	1963000	0
63	1448	SLU STR.	8824,2	5197,3	-44340	451800	-732100	0
64	1448	SLU STR.	-27790	-13890	-44820	-949100	1996000	0
65	1448	SLU STR.	8978,7	5367,6	-55820	464300	-770100	0
66	1448	SLU STR.	-27640	-13720	-56290	-936500	1958000	0
67	1448	SLU STR.	8857,2	5154,7	-42860	428900	-736900	0
68	1448	SLU STR.	-27760	-13940	-43330	-972000	1992000	0
69	1448	SLU STR.	14780	8429,2	-55630	699100	-1202000	0
70	1448	SLU STR.	-46250	-23390	-56420	-1636000	3346000	0
71	1448	SLU STR.	14660	8216,3	-42670	663700	-1168000	0
72	1448	SLU STR.	-46370	-23600	-43460	-1671000	3379000	0
73	1448	SLU STR.	8966,9	5398,7	-55700	476800	-768600	0
74	1448	SLU STR.	-27650	-13690	-56180	-924100	1960000	0
75	1448	SLU STR.	8845,3	5185,8	-42750	441300	-735300	0
76	1448	SLU STR.	-27770	-13910	-43220	-959500	1993000	0
77	1448	SLU STR.	8809,3	5406,9	-55820	477800	-757900	0
78	1448	SLU STR.	-27810	-13680	-56300	-923100	1971000	0
79	1448	SLU STR.	8687,7	5194,0	-42870	442400	-724700	0
80	1448	SLU STR.	-27930	-13900	-43340	-958500	2004000	0
81	1448	SLU STR.	8968,9	6439,0	-54310	516400	-754300	0
82	1448	SLU STR.	-27650	-12650	-54780	-884500	1974000	0
83	1448	SLU STR.	8847,4	6226,1	-41350	481000	-721000	0
84	1448	SLU STR.	-27770	-12870	-41820	-919900	2007000	0
85	1448	SLU STR.	8961,9	6428,4	-53700	514600	-752800	0
86	1448	SLU STR.	-27650	-12660	-54180	-886300	1976000	0
87	1448	SLU STR.	8840,3	6215,4	-40740	479100	-719500	0
88	1448	SLU STR.	-27780	-12880	-41220	-921700	2009000	0
89	1448	SLU STR.	8933,6	6429,2	-54690	523100	-748000	0
90	1448	SLU STR.	-27680	-12660	-55170	-877800	1980000	0
91	1448	SLU STR.	8812,1	6216,3	-41730	487700	-714800	0
92	1448	SLU STR.	-27800	-12880	-42210	-913200	2014000	0
93	1448	SLU STR.	8966,6	6386,5	-53210	500300	-752800	0
94	1448	SLU STR.	-27650	-12710	-53680	-900600	1976000	0
95	1448	SLU STR.	8845,1	6173,6	-40250	464800	-719600	0
96	1448	SLU STR.	-27770	-12920	-40720	-936000	2009000	0
97	1448	SLU STR.	14770	9448,1	-53020	735100	-1184000	0
98	1448	SLU STR.	-46260	-22370	-53810	-1600000	3363000	0
99	1448	SLU STR.	14650	9235,2	-40060	699600	-1151000	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 364 di
378

100	1448	SLU STR.	-46380	-22580	-40850	-1635000	3396000	0
101	1448	SLU STR.	8954,8	6417,7	-53090	512700	-751200	0
102	1448	SLU STR.	-27660	-12670	-53570	-888200	1977000	0
103	1448	SLU STR.	8833,3	6204,8	-40140	477300	-718000	0
104	1448	SLU STR.	-27780	-12890	-40610	-923600	2010000	0
105	1448	SLU STR.	8789,1	7105,1	-51480	537700	-729100	0
106	1448	SLU STR.	-27830	-11990	-51950	-863200	1999000	0
107	1448	SLU STR.	8667,6	6892,2	-38520	502200	-695800	0
108	1448	SLU STR.	-27950	-12200	-38990	-898600	2033000	0
109	1448	SLU STR.	9459,0	4368,7	-59160	440300	-819700	0
110	1448	SLU STR.	-27160	-14720	-59630	-960600	1909000	0
111	1448	SLU STR.	9337,5	4155,8	-46200	404800	-786500	0
112	1448	SLU STR.	-27280	-14940	-46670	-996100	1942000	0
113	1448	SLU STR.	9451,9	4358,0	-58550	438400	-818200	0
114	1448	SLU STR.	-27160	-14730	-59020	-962500	1910000	0
115	1448	SLU STR.	9330,4	4145,1	-45590	403000	-785000	0
116	1448	SLU STR.	-27290	-14950	-46060	-997900	1943000	0
117	1448	SLU STR.	9423,7	4358,8	-59540	447000	-813500	0
118	1448	SLU STR.	-27190	-14730	-60010	-953900	1915000	0
119	1448	SLU STR.	9302,2	4145,9	-46580	411500	-780200	0
120	1448	SLU STR.	-27310	-14950	-47060	-989300	1948000	0
121	1448	SLU STR.	9456,7	4316,2	-58060	424100	-818300	0
122	1448	SLU STR.	-27160	-14780	-58530	-976800	1910000	0
123	1448	SLU STR.	9335,2	4103,3	-45100	388700	-785000	0
124	1448	SLU STR.	-27280	-14990	-45570	-1012000	1943000	0
125	1448	SLU STR.	15260	7377,7	-57870	658900	-1250000	0
126	1448	SLU STR.	-45770	-24440	-58660	-1676000	3298000	0
127	1448	SLU STR.	15140	7164,8	-44910	623500	-1217000	0
128	1448	SLU STR.	-45890	-24650	-45700	-1711000	3331000	0
129	1448	SLU STR.	9444,9	4347,3	-57940	436600	-816700	0
130	1448	SLU STR.	-27170	-14740	-58420	-964300	1912000	0
131	1448	SLU STR.	9323,3	4134,4	-44980	401100	-783500	0
132	1448	SLU STR.	-27290	-14960	-45460	-999800	1945000	0
133	1448	SLU STR.	9605,9	3654,5	-59550	410700	-838200	0
134	1448	SLU STR.	-27010	-15440	-60030	-990100	1890000	0
135	1448	SLU STR.	9484,4	3441,6	-46600	375300	-804900	0
136	1448	SLU STR.	-27130	-15650	-47070	-1026000	1924000	0
137	1448	SLE Rare	6193,6	3690,4	-42540	333200	-538400	0
138	1448	SLE Rare	-18220	-9037,5	-42860	-600700	1281000	0
139	1448	SLE Rare	6188,9	3683,2	-42140	332000	-537400	0
140	1448	SLE Rare	-18220	-9044,6	-42460	-601900	1282000	0
141	1448	SLE Rare	6170,0	3683,8	-42800	337700	-534200	0
142	1448	SLE Rare	-18240	-9044,1	-43120	-596200	1285000	0
143	1448	SLE Rare	6192,1	3655,3	-41810	322500	-537400	0
144	1448	SLE Rare	-18220	-9072,5	-42130	-611400	1282000	0
145	1448	SLE Rare	10060	5696,4	-41690	479000	-825100	0
146	1448	SLE Rare	-30630	-15520	-42210	-1078000	2207000	0
147	1448	SLE Rare	6184,2	3676,1	-41740	330800	-536400	0
148	1448	SLE Rare	-18230	-9051,7	-42050	-603200	1283000	0
149	1448	SLE Rare	6508,8	3674,0	-42300	331200	-559600	0
150	1448	SLE Rare	-17900	-9053,9	-42620	-602700	1259000	0
151	1448	SLE Rare	6504,1	3666,9	-41900	330000	-558600	0
152	1448	SLE Rare	-17910	-9061,0	-42220	-603900	1260000	0
153	1448	SLE Rare	6485,3	3667,4	-42560	335700	-555400	0
154	1448	SLE Rare	-17930	-9060,4	-42880	-598200	1264000	0
155	1448	SLE Rare	6507,3	3639,0	-41570	320500	-558600	0
156	1448	SLE Rare	-17900	-9088,9	-41890	-613500	1260000	0
157	1448	SLE Rare	10370	5680,0	-41440	477000	-846300	0
158	1448	SLE Rare	-30310	-15530	-41970	-1080000	2185000	0
159	1448	SLE Rare	6709,6	3648,8	-41330	327400	-571700	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 365 di
378

160	1448	SLE Rare	-17700	-9079,0	-41650	-606500	1247000	0
161	1448	SLE Rare	6499,4	3659,7	-41490	328800	-557600	0
162	1448	SLE Rare	-17910	-9068,1	-41810	-605200	1261000	0
163	1448	SLE Rare	6035,9	3698,6	-42670	334200	-527800	0
164	1448	SLE Rare	-18370	-9029,3	-42980	-599700	1291000	0
165	1448	SLE Rare	6031,2	3691,4	-42260	333000	-526800	0
166	1448	SLE Rare	-18380	-9036,4	-42580	-600900	1292000	0
167	1448	SLE Rare	6012,4	3692,0	-42920	338700	-523600	0
168	1448	SLE Rare	-18400	-9035,9	-43240	-595200	1295000	0
169	1448	SLE Rare	6034,4	3663,5	-41930	323500	-526800	0
170	1448	SLE Rare	-18380	-9064,3	-42250	-610400	1292000	0
171	1448	SLE Rare	9901,2	5704,6	-41810	480000	-814500	0
172	1448	SLE Rare	-30780	-15510	-42330	-1077000	2217000	0
173	1448	SLE Rare	6026,5	3684,3	-41860	331800	-525800	0
174	1448	SLE Rare	-18380	-9043,6	-42170	-602100	1293000	0
175	1448	SLE Rare	5921,4	3689,8	-41940	332400	-518700	0
176	1448	SLE Rare	-18490	-9038,1	-42250	-601500	1300000	0
177	1448	SLE Rare	6027,9	4377,8	-40930	358200	-516200	0
178	1448	SLE Rare	-18380	-8350	-41240	-575700	1303000	0
179	1448	SLE Rare	6023,2	4370,7	-40520	357000	-515200	0
180	1448	SLE Rare	-18390	-8357,1	-40840	-577000	1304000	0
181	1448	SLE Rare	6004,4	4371,3	-41180	362700	-512100	0
182	1448	SLE Rare	-18410	-8356,6	-41500	-571200	1307000	0
183	1448	SLE Rare	6026,4	4342,8	-40190	347400	-515300	0
184	1448	SLE Rare	-18380	-8385,0	-40510	-586500	1304000	0
185	1448	SLE Rare	9893,1	6383,9	-40070	504000	-802900	0
186	1448	SLE Rare	-30790	-14830	-40590	-1053000	2229000	0
187	1448	SLE Rare	6018,5	4363,6	-40120	355700	-514200	0
188	1448	SLE Rare	-18390	-8364,3	-40430	-578200	1305000	0
189	1448	SLE Rare	5908,0	4821,9	-39040	372400	-499400	0
190	1448	SLE Rare	-18500	-7906,0	-39350	-561500	1320000	0
191	1448	SLE Rare	6354,6	2997,6	-44160	307400	-559900	0
192	1448	SLE Rare	-18060	-9730,2	-44470	-626500	1259000	0
193	1448	SLE Rare	6349,9	2990,5	-43750	306200	-558900	0
194	1448	SLE Rare	-18060	-9737,4	-44070	-627700	1260000	0
195	1448	SLE Rare	6331,1	2991,0	-44410	311900	-555700	0
196	1448	SLE Rare	-18080	-9736,8	-44730	-622000	1263000	0
197	1448	SLE Rare	6353,1	2962,6	-43420	296700	-558900	0
198	1448	SLE Rare	-18060	-9765,3	-43740	-637200	1260000	0
199	1448	SLE Rare	10220	5003,6	-43300	453200	-846600	0
200	1448	SLE Rare	-30460	-16210	-43820	-1103000	2185000	0
201	1448	SLE Rare	6345,2	2983,3	-43350	305000	-557800	0
202	1448	SLE Rare	-18070	-9744,5	-43660	-629000	1261000	0
203	1448	SLE Rare	6452,6	2521,5	-44420	287800	-572200	0
204	1448	SLE Rare	-17960	-10210	-44740	-646200	1247000	0
205	1448	SLE Freq.	375,7	656,0	-39880	109000	-103700	0
206	1448	SLE Freq.	380,5	663,1	-40290	110200	-104800	0
207	1448	SLE Freq.	366,3	661,1	-40590	113600	-102300	0
208	1448	SLE Freq.	381,0	642,1	-39930	103400	-104400	0
209	1448	SLE Freq.	5219,1	3181,3	-39820	294300	-464600	0
210	1448	SLE Freq.	-15120	-7425,2	-40080	-484000	1051000	0
211	1448	SLE Freq.	480,8	650,5	-39800	108300	-110800	0
212	1448	SLE Freq.	323,2	658,7	-39920	109300	-100200	0
213	1448	SLE Freq.	320,5	885,1	-39340	117300	-96350	0
214	1448	SLE Freq.	429,4	425,1	-40420	100400	-110900	0
215	1448	SLE Quasi P.	375,7	656,0	-39880	109000	-103700	0
216	1448	SLU A1 sism.	6541,3	-1072,9	-18060	-228900	-410600	0
217	1448	SLU A1 sism.	8898,7	-3423,1	-36810	-103800	-723900	0
218	1448	SLU A1 sism.	-8147,2	4735,0	-42950	321700	516400	0
219	1448	SLU A1 sism.	-5789,9	2384,9	-61710	446900	203200	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 366 di
378

220	1448	SLU A1 sism.	6488,0	-125,0	-18300	-148800	-412100	0
221	1448	SLU A1 sism.	8952,0	-4371,0	-36570	-184000	-722400	0
222	1448	SLU A1 sism.	-8200,5	5683,0	-43200	401900	514900	0
223	1448	SLU A1 sism.	-5736,6	1436,9	-61470	366700	204600	0
224	1448	SLU A1 sism.	5104,8	2887,5	-17340	110400	-295700	0
225	1448	SLU A1 sism.	7462,1	537,4	-36100	235500	-609000	0
226	1448	SLU A1 sism.	-6710,6	774,6	-43670	-17630	401500	0
227	1448	SLU A1 sism.	-4353,3	-1575,6	-62430	107500	88270	0
228	1448	SLU A1 sism.	5051,5	3835,5	-17580	190600	-297200	0
229	1448	SLU A1 sism.	7515,4	-410,6	-35850	155400	-607500	0
230	1448	SLU A1 sism.	-6764,0	1722,5	-43920	62540	400100	0
231	1448	SLU A1 sism.	-4300,0	-2523,5	-62190	27330	89740	0
232	1448	SLU A1 sism.	-1349,8	3701,7	-4888,2	-182200	279300	0
233	1448	SLU A1 sism.	6507,9	-4132,1	-67410	234900	-764900	0
234	1448	SLU A1 sism.	-5756,4	5444,1	-12360	-16990	557400	0
235	1448	SLU A1 sism.	2101,3	-2389,7	-74880	400100	-486800	0
236	1448	SLU A1 sism.	-1780,8	4889,8	-4672,5	-80380	313800	0
237	1448	SLU A1 sism.	6076,9	-2944,0	-67200	336700	-730400	0
238	1448	SLU A1 sism.	-5325,4	4255,9	-12570	-118800	523000	0
239	1448	SLU A1 sism.	2532,3	-3577,9	-75100	298300	-521300	0
240	1448	SLU A1 sism.	-1527,5	6861,5	-5699,6	85040	274400	0
241	1448	SLU A1 sism.	6685,6	-7292,0	-66600	-32330	-760000	0
242	1448	SLU A1 sism.	-5934,1	8603,9	-13170	250200	552500	0
243	1448	SLU A1 sism.	2279,0	-5549,6	-74070	132900	-481900	0
244	1448	SLU A1 sism.	-1958,5	8049,7	-5483,8	186800	308900	0
245	1448	SLU A1 sism.	6254,6	-6103,8	-66380	69480	-725500	0
246	1448	SLU A1 sism.	-5503,1	7415,8	-13380	148400	518100	0
247	1448	SLU A1 sism.	2710,0	-6737,7	-74280	31070	-516400	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 17 Ø 20 = 53,4 cmq

Armatura a taglio - st. circolari:

tratto sup. (600 cm) Ø8 / 5, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
100	1448	0	-40850,8	51587,0	3769456	0,812	0,171	0,804	Ok
239	1448	0	-75095,5	4383,3	600580,6	0,122	0,314	0,065	Ok
72	1448	0	-43460,1	52030,4	3769650	0,808	0,182	0,807	Ok
100	1448	-50	-40804,5	32384,6	1368033	0,295	0,170	0,504	Ok
239	1448	-50	-75010,4	2710,5	587225,3	0,119	0,313	0,040	Ok
72	1448	-50	-43410,8	32558,6	1349347	0,289	0,181	0,505	Ok
235	1448	-100	-74556,9	2672,4	533113	0,109	0,311	0,039	Ok
239	1448	-100	-74771,7	2546,4	527865,6	0,107	0,312	0,038	Ok
100	1448	-100	-40674,6	15876,3	251641,7	0,054	0,170	0,247	Ok
128	1448	-150	-45306,1	3202,3	1092430	0,233	0,189	0,050	Ok
239	1448	-150	-74451,6	2244,9	424028,9	0,086	0,311	0,033	Ok
100	1448	-150	-40500,5	3383,9	1045143	0,225	0,169	0,053	Ok
128	1448	-200	-45150,8	2970,0	1251636	0,267	0,189	0,046	Ok

239	1448	-200	-74196,3	1389,1	318995,9	0,065	0,310	0,021	Ok
128	1448	-250	-45078,5	3497,7	1103183	0,236	0,188	0,054	Ok
239	1448	-250	-74077,5	1064,6	250435,1	0,051	0,309	0,016	Ok
128	1448	-300	-45044,5	3462,3	928303,9	0,198	0,188	0,054	Ok
239	1448	-300	-74021,6	979,5	197484,2	0,040	0,309	0,014	Ok
128	1448	-350	-45005,0	3326,2	755194,3	0,161	0,188	0,051	Ok
239	1448	-350	-73956,6	886,0	148803,1	0,030	0,309	0,013	Ok
128	1448	-400	-44960,0	3128,6	588890,5	0,126	0,188	0,048	Ok
239	1448	-400	-73882,7	792,4	104874,3	0,021	0,309	0,012	Ok
128	1448	-450	-44904,4	2845,4	432466,9	0,092	0,188	0,044	Ok
239	1448	-450	-73791,3	682,8	65865,6	0,013	0,308	0,010	Ok
72	1448	-500	-42637,5	2307,0	289173,5	0,062	0,178	0,036	Ok
239	1448	-500	-73674,1	509,0	33167,1	0,007	0,308	0,008	Ok
128	1448	-500	-44833,0	2328,3	290208,8	0,062	0,187	0,036	Ok
72	1448	-550	-42559,8	1772,2	173830,3	0,037	0,178	0,028	Ok
239	1448	-550	-73539,8	346,1	13447,1	0,003	0,307	0,005	Ok
128	1448	-550	-44751,3	1786,3	173807,2	0,037	0,187	0,028	Ok
100	1448	-600	-39927,1	1275,8	85391,9	0,018	0,167	0,020	Ok
239	1448	-600	-73397,5	214,8	16579,6	0,003	0,307	0,003	Ok
128	1448	-600	-44664,7	1302,5	84522,9	0,018	0,187	0,020	Ok
235	1448	-650	-73036,7	95,6	25506,0	0,005	0,305	0,001	Ok
239	1448	-650	-73247,1	114,7	24773,4	0,005	0,306	0,002	Ok
128	1448	-650	-44573,2	890,8	19566,5	0,004	0,186	0,014	Ok
235	1448	-700	-72879,1	34,6	29536,0	0,006	0,304	0,001	Ok
239	1448	-700	-73089,0	47,5	29382,3	0,006	0,305	0,001	Ok
72	1448	-700	-42298,9	554,9	23898,5	0,005	0,177	0,009	Ok
128	1448	-750	-44376,2	294,5	53025,9	0,011	0,185	0,005	Ok
239	1448	-750	-72923,4	36,5	30609,8	0,006	0,305	0,001	Ok
100	1448	-750	-39669,2	295,2	49719,6	0,011	0,166	0,005	Ok
128	1448	-800	-44271	100,8	67720,1	0,014	0,185	0,002	Ok
239	1448	-800	-72750,5	59,4	29379,9	0,006	0,304	0,001	Ok
100	1448	-800	-39575,2	105,5	64477,8	0,014	0,165	0,002	Ok
128	1448	-850	-44161,5	36,1	72730,9	0,016	0,184	0,001	Ok
239	1448	-850	-72570,5	74,9	26568,6	0,005	0,303	0,001	Ok
235	1448	-850	-72362,1	75,7	25732,6	0,005	0,302	0,001	Ok
128	1448	-900	-44047,8	123,1	70959,2	0,015	0,184	0,002	Ok
239	1448	-900	-72383,7	80,6	22892,8	0,005	0,302	0,001	Ok
126	1448	-900	-56538,3	126,3	71625,7	0,015	0,236	0,002	Ok
128	1448	-950	-43930,0	172,7	64806,7	0,014	0,184	0,003	Ok
239	1448	-950	-72190,1	78,9	18898,6	0,004	0,302	0,001	Ok
128	1448	-1000	-43808,3	193,5	56174,9	0,012	0,183	0,003	Ok
239	1448	-1000	-71990,1	72,2	14976,3	0,003	0,301	0,001	Ok
128	1448	-1050	-43682,8	193,6	46501,9	0,010	0,182	0,003	Ok
239	1448	-1050	-71783,9	62,5	11383,0	0,002	0,300	0,001	Ok
128	1448	-1100	-43553,6	180,0	36820,0	0,008	0,182	0,003	Ok
239	1448	-1100	-71571,6	51,5	8269,4	0,002	0,299	0,001	Ok
128	1448	-1150	-43420,8	157,8	27822,5	0,006	0,181	0,002	Ok
239	1448	-1150	-71353,5	40,4	5703,6	0,001	0,298	0,001	Ok
128	1448	-1200	-43284,7	131,3	19932,2	0,004	0,181	0,002	Ok
239	1448	-1200	-71129,7	29,9	3693,5	0,001	0,297	0,000	Ok
128	1448	-1250	-43145,2	103,5	13366,4	0,003	0,180	0,002	Ok
239	1448	-1250	-70900,5	20,7	2205,0	0,000	0,296	0,000	Ok
128	1448	-1300	-43002,6	76,3	8193,2	0,002	0,180	0,001	Ok
239	1448	-1300	-70666,1	13,1	1176,5	0,000	0,295	0,000	Ok
72	1448	-1350	-40758,1	50,7	4362,8	0,001	0,170	0,001	Ok
239	1448	-1350	-70426,7	7,2	530,1	0,000	0,294	0,000	Ok
128	1448	-1350	-42856,9	51,0	4380,2	0,001	0,179	0,001	Ok
72	1448	-1400	-40616,8	28,1	1828,1	0,000	0,170	0,000	Ok
239	1448	-1400	-70182,5	3,0	178,8	0,000	0,293	0,000	Ok
72	1448	-1450	-40472,7	8,4	420,7	0,000	0,169	0,000	Ok

239	1448	-1450	-69933,6	0,7	32,8	0,000	0,292	0,000	Ok
236	1448	-1500	-4351,3	0,7	0	0	0,018	0,000	Ok
239	1448	-1500	-69933,6	0,7	0	0	0,292	0,000	Ok
72	1448	-1500	-40472,7	8,4	0	0	0,169	0,000	Ok

Sezioni maggiormente sollecitate:

Pl.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
1448	100	1448	0	-40850,8	51587,0	3769456	0,812	0,171	0,804
1448	239	1448	0	-75095,5	4383,3	600580,6	0,122	0,314	0,065
1448	72	1448	0	-43460,1	52030,4	3769650	0,808	0,182	0,807

S/Su massime:

Ver. N/M = 0,812 < 1 Ok

Ver. (25) = 0,314 < 1 Ok

Ver. V = 0,807 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
172	1448	0	-42332,7	2464662	2302,6	-134,4	Ok
186	1448	0	-40593,2	2464729	2336,0	-134,3	Ok
186	1448	-50	-40547,2	875323,4	-596,4	-48,2	Ok
200	1448	-100	-43635,7	230865,3	-276,7	-20,1	Ok
200	1448	-150	-43448,9	742972,2	-524,7	-41,4	Ok
200	1448	-200	-43299,9	842441,1	-582,4	-46,6	Ok
200	1448	-250	-43230,6	740865,6	-523,0	-41,3	Ok
200	1448	-300	-43198,0	622700,3	-456,4	-35,4	Ok
200	1448	-350	-43160,0	505927,3	-395,1	-30,1	Ok
200	1448	-400	-43116,9	393891,6	-342,7	-25,6	Ok
200	1448	-450	-43063,6	288622,1	-298,3	-21,9	Ok
200	1448	-500	-42995,1	192987,9	-258,3	-18,6	Ok
200	1448	-550	-42916,8	114872,2	-225,5	-15,8	Ok
200	1448	-600	-42833,7	55080,7	-200,3	-13,7	Ok
203	1448	-650	-43329,9	8356,4	-183,0	-12,3	Ok
204	1448	-700	-43543,8	13741,1	-186,1	-12,5	Ok
200	1448	-750	-42557,1	36586,3	-191,5	-13,0	Ok
200	1448	-800	-42456,2	46218,8	-195,1	-13,3	Ok
200	1448	-850	-42351,1	49377,9	-196,0	-13,4	Ok
200	1448	-900	-42242,1	48015,9	-195,0	-13,3	Ok
200	1448	-950	-42129,1	43746,4	-192,7	-13,2	Ok
200	1448	-1000	-42012,4	37845,0	-189,8	-12,9	Ok
200	1448	-1050	-41892,0	31274,0	-186,5	-12,7	Ok
200	1448	-1100	-41768,2	24722,4	-183,3	-12,4	Ok
200	1448	-1150	-41640,9	18651,3	-180,3	-12,1	Ok
204	1448	-1150	-42509,8	11580,3	-180,9	-12,1	Ok
204	1448	-1200	-42376,5	8242,0	-179,0	-12,0	Ok
204	1448	-1250	-42240	5488,7	-177,3	-11,9	Ok
204	1448	-1300	-42100,4	3338,9	-175,8	-11,7	Ok
204	1448	-1350	-41957,7	1769,6	-173,8	-11,6	Ok
204	1448	-1400	-41812,2	732,7	-173,2	-11,5	Ok
204	1448	-1450	-41663,9	165,6	-172,6	-11,5	Ok
204	1448	-1500	-41663,9	0	-172,6	-11,5	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 369 di
378

			cm	daN	daN cm	daN/cmq	daN/cmq
1448	172	1448	0	-42332,7	2464662	2302,6	-134,4
1448	186	1448	0	-40593,2	2464729	2336,0	-134,3

Valori massimi SLE condizioni rare:

Ten.massima CLS = 134,4 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 2336,0 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1448	0	-40084,5	1157237	0,043	Ok
210	1448	-50	-40039,1	376864,2	0	Ok
210	1448	-100	-39911,7	142841,5	0	Ok
210	1448	-150	-39740,8	384879,5	0	Ok
210	1448	-200	-39604,6	426603,1	0	Ok
210	1448	-250	-39541,2	373300,3	0	Ok
210	1448	-300	-39511,4	312944,6	0	Ok
210	1448	-350	-39476,7	253520,7	0	Ok
210	1448	-400	-39437,2	196672,1	0	Ok
210	1448	-450	-39388,4	143380,3	0	Ok
210	1448	-500	-39325,8	95081,2	0	Ok
210	1448	-550	-39254,2	55782,5	0	Ok
210	1448	-600	-39178,2	25843,0	0	Ok
207	1448	-650	-39595,1	4190,5	0	Ok
210	1448	-700	-39013,6	10574,3	0	Ok
210	1448	-750	-38925,2	19532	0	Ok
210	1448	-800	-38832,9	24122,2	0	Ok
210	1448	-850	-38736,8	25482,3	0	Ok
210	1448	-900	-38637,0	24602	0	Ok
210	1448	-950	-38533,7	22295,6	0	Ok
210	1448	-1000	-38427,0	19204	0	Ok
210	1448	-1050	-38316,9	15808,5	0	Ok
210	1448	-1100	-38203,6	12451,4	0	Ok
210	1448	-1150	-38087,1	9360,1	0	Ok
210	1448	-1200	-37967,7	6670,0	0	Ok
210	1448	-1250	-37845,4	4447,6	0	Ok
207	1448	-1250	-38326,6	83,2	0	Ok
214	1448	-1250	-38163,5	91,1	0	Ok
207	1448	-1300	-38199,9	40,6	0	Ok
207	1448	-1350	-38070,5	29,0	0	Ok
207	1448	-1400	-37938,5	19,7	0	Ok
207	1448	-1450	-37803,9	7,6	0	Ok
207	1448	-1500	-37803,9	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1448	210	1448	0	-40084,5	1157237	0,043

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0,043 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
		cm	daN	daN cm	daN/cm ²	mm	
215	1448	0	-39884,0	150446,4	-16,2	0	Ok
215	1448	-50	-39838,8	112286	-14,9	0	Ok
215	1448	-100	-39712,0	74224,7	-13,5	0	Ok
215	1448	-150	-39542,0	43043,2	-12,4	0	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 370 di
378

215	1448	-200	-39406,4	23741,8	-11,7	0	Ok
215	1448	-250	-39343,3	16264,3	-11,4	0	Ok
215	1448	-300	-39313,6	11709,9	-11,3	0	Ok
215	1448	-350	-39279,1	7808,1	-11,1	0	Ok
215	1448	-400	-39239,9	4592,6	-11,0	0	Ok
215	1448	-450	-39191,3	2353,9	-10,9	0	Ok
215	1448	-500	-39129,0	2278,1	-10,8	0	Ok
215	1448	-550	-39057,8	3261,4	-10,9	0	Ok
215	1448	-600	-38982,1	3900,5	-10,9	0	Ok
215	1448	-650	-38902,3	4104,5	-10,9	0	Ok
215	1448	-700	-38818,3	3973,9	-10,9	0	Ok
215	1448	-750	-38730,4	3621,0	-10,8	0	Ok
215	1448	-800	-38638,6	3141,8	-10,8	0	Ok
215	1448	-850	-38543,0	2611,0	-10,7	0	Ok
215	1448	-900	-38443,7	2082,9	-10,6	0	Ok
215	1448	-950	-38340,9	1594,0	-10,6	0	Ok
215	1448	-1000	-38234,7	1166,3	-10,6	0	Ok
215	1448	-1050	-38125,2	810,7	-10,5	0	Ok
215	1448	-1100	-38012,4	529,4	-10,5	0	Ok
215	1448	-1150	-37896,5	319,4	-10,5	0	Ok
215	1448	-1200	-37777,7	173,9	-10,4	0	Ok
215	1448	-1250	-37656,0	84,8	-10,4	0	Ok
215	1448	-1300	-37531,5	43,3	-10,4	0	Ok
215	1448	-1350	-37404,4	30,3	-10,3	0	Ok
215	1448	-1400	-37274,6	20,0	-10,3	0	Ok
215	1448	-1450	-37142,5	7,5	-10,3	0	Ok
215	1448	-1500	-37142,5	0	-10,3	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1448	215	1448	0	-39884,0	150446,4	-16,2	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 16,2 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

PALO 1449

VERIFICHE DEL PLINTO

Sollecitazioni alla base del pilastro

Cmb	Plin.	Tipo	Vx	Vy	N	Mx	My	T
			daN	daN	daN	daN cm	daN cm	daN cm
1	1449	SLU STR.	9245,7	-5657,0	-53500	-450900	-776100	0
2	1449	SLU STR.	-28810	15560	-54350	1144000	2110000	0
3	1449	SLU STR.	9198,6	-5502,3	-41260	-432300	-754400	0
4	1449	SLU STR.	-28860	15710	-42110	1162000	2132000	0
5	1449	SLU STR.	9242,8	-5649,2	-52930	-449800	-775200	0
6	1449	SLU STR.	-28820	15570	-53780	1145000	2111000	0
7	1449	SLU STR.	9195,7	-5494,6	-40690	-431200	-753500	0
8	1449	SLU STR.	-28860	15720	-41550	1163000	2133000	0
9	1449	SLU STR.	9246,1	-5613,1	-52390	-436100	-775000	0
10	1449	SLU STR.	-28810	15600	-53240	1158000	2111000	0
11	1449	SLU STR.	9199	-5458,5	-40150	-417400	-753300	0
12	1449	SLU STR.	-28860	15760	-41000	1177000	2133000	0
13	1449	SLU STR.	9222,3	-5641,8	-53960	-457000	-771600	0
14	1449	SLU STR.	-28840	15570	-54820	1137000	2114000	0
15	1449	SLU STR.	9175,2	-5487,1	-41730	-438400	-749900	0

16	1449	SLU STR.	-28880	15730	-42580	1156000	2136000	0
17	1449	SLU STR.	15280	-9009,2	-52230	-701900	-1232000	0
18	1449	SLU STR.	-48150	26350	-53650	1956000	3578000	0
19	1449	SLU STR.	15230	-8854,6	-39990	-683300	-1211000	0
20	1449	SLU STR.	-48200	26510	-41410	1974000	3599000	0
21	1449	SLU STR.	9239,9	-5641,5	-52370	-448800	-774400	0
22	1449	SLU STR.	-28820	15570	-53220	1146000	2112000	0
23	1449	SLU STR.	9192,8	-5486,9	-40130	-430200	-752600	0
24	1449	SLU STR.	-28870	15730	-40980	1164000	2133000	0
25	1449	SLU STR.	9715,8	-5652,6	-53140	-449800	-808200	0
26	1449	SLU STR.	-28340	15560	-53990	1145000	2078000	0
27	1449	SLU STR.	9668,7	-5498,0	-40900	-431200	-786500	0
28	1449	SLU STR.	-28390	15720	-41750	1163000	2100000	0
29	1449	SLU STR.	9712,9	-5644,9	-52570	-448700	-807400	0
30	1449	SLU STR.	-28350	15570	-53420	1146000	2079000	0
31	1449	SLU STR.	9665,8	-5490,3	-40330	-430100	-785600	0
32	1449	SLU STR.	-28390	15730	-41180	1164000	2100000	0
33	1449	SLU STR.	9716,2	-5608,7	-52030	-435000	-807100	0
34	1449	SLU STR.	-28340	15610	-52880	1159000	2079000	0
35	1449	SLU STR.	9669,1	-5454,1	-39790	-416400	-785400	0
36	1449	SLU STR.	-28390	15760	-40640	1178000	2101000	0
37	1449	SLU STR.	9692,4	-5637,4	-53600	-455900	-803700	0
38	1449	SLU STR.	-28370	15580	-54450	1139000	2082000	0
39	1449	SLU STR.	9645,3	-5482,8	-41360	-437300	-782000	0
40	1449	SLU STR.	-28410	15730	-42210	1157000	2104000	0
41	1449	SLU STR.	15750	-9004,8	-51860	-700800	-1265000	0
42	1449	SLU STR.	-47680	26360	-53280	1957000	3546000	0
43	1449	SLU STR.	15700	-8850,2	-39620	-682200	-1243000	0
44	1449	SLU STR.	-47730	26510	-41040	1975000	3567000	0
45	1449	SLU STR.	10020	-5634,2	-51750	-447000	-827900	0
46	1449	SLU STR.	-28040	15580	-52600	1148000	2058000	0
47	1449	SLU STR.	9976,3	-5479,6	-39510	-428300	-806200	0
48	1449	SLU STR.	-28080	15740	-40360	1166000	2080000	0
49	1449	SLU STR.	9710	-5637,1	-52000	-447700	-806500	0
50	1449	SLU STR.	-28350	15580	-52850	1147000	2080000	0
51	1449	SLU STR.	9662,9	-5482,5	-39760	-429100	-784700	0
52	1449	SLU STR.	-28400	15730	-40610	1165000	2101000	0
53	1449	SLU STR.	9010,7	-5659,1	-53690	-451400	-760100	0
54	1449	SLU STR.	-29050	15560	-54540	1143000	2126000	0
55	1449	SLU STR.	8963,6	-5504,5	-41450	-432800	-738300	0
56	1449	SLU STR.	-29100	15710	-42300	1162000	2148000	0
57	1449	SLU STR.	9007,8	-5651,4	-53120	-450400	-759200	0
58	1449	SLU STR.	-29050	15570	-53970	1144000	2127000	0
59	1449	SLU STR.	8960,7	-5496,8	-40880	-431800	-737500	0
60	1449	SLU STR.	-29100	15720	-41730	1163000	2149000	0
61	1449	SLU STR.	9011,1	-5615,3	-52580	-436600	-759000	0
62	1449	SLU STR.	-29050	15600	-53430	1158000	2127000	0
63	1449	SLU STR.	8964,0	-5460,6	-40340	-418000	-737200	0
64	1449	SLU STR.	-29100	15760	-41190	1176000	2149000	0
65	1449	SLU STR.	8987,3	-5643,9	-54150	-457500	-755500	0
66	1449	SLU STR.	-29070	15570	-55000	1137000	2131000	0
67	1449	SLU STR.	8940,2	-5489,3	-41910	-438900	-733800	0
68	1449	SLU STR.	-29120	15730	-42760	1156000	2152000	0
69	1449	SLU STR.	15050	-9011,4	-52410	-702400	-1216000	0
70	1449	SLU STR.	-48390	26350	-53830	1955000	3594000	0
71	1449	SLU STR.	15000	-8856,7	-40170	-683800	-1195000	0
72	1449	SLU STR.	-48430	26500	-41590	1974000	3615000	0
73	1449	SLU STR.	9004,9	-5643,7	-52550	-449300	-758300	0
74	1449	SLU STR.	-29050	15570	-53400	1145000	2128000	0
75	1449	SLU STR.	8957,8	-5489,1	-40310	-430700	-736600	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 372 di
378

76	1449	SLU STR.	-29100	15730	-41160	1164000	2150000	0
77	1449	SLU STR.	8848,2	-5645,1	-52670	-449700	-747600	0
78	1449	SLU STR.	-29210	15570	-53520	1145000	2138000	0
79	1449	SLU STR.	8801,1	-5490,5	-40430	-431100	-725900	0
80	1449	SLU STR.	-29260	15730	-41280	1163000	2160000	0
81	1449	SLU STR.	9481,4	-4633,2	-56040	-414600	-807000	0
82	1449	SLU STR.	-28580	16580	-56890	1180000	2079000	0
83	1449	SLU STR.	9434,3	-4478,6	-43800	-396000	-785300	0
84	1449	SLU STR.	-28630	16740	-44650	1198000	2101000	0
85	1449	SLU STR.	9478,5	-4625,5	-55470	-413500	-806100	0
86	1449	SLU STR.	-28580	16590	-56320	1181000	2080000	0
87	1449	SLU STR.	9431,4	-4470,9	-43230	-394900	-784400	0
88	1449	SLU STR.	-28630	16750	-44080	1200000	2102000	0
89	1449	SLU STR.	9481,8	-4589,4	-54930	-399800	-805900	0
90	1449	SLU STR.	-28580	16630	-55780	1195000	2080000	0
91	1449	SLU STR.	9434,7	-4434,7	-42690	-381200	-784200	0
92	1449	SLU STR.	-28630	16780	-43540	1213000	2102000	0
93	1449	SLU STR.	9458,0	-4618,0	-56500	-420700	-802500	0
94	1449	SLU STR.	-28600	16600	-57350	1174000	2084000	0
95	1449	SLU STR.	9410,9	-4463,4	-44260	-402100	-780700	0
96	1449	SLU STR.	-28650	16750	-45110	1192000	2105000	0
97	1449	SLU STR.	15520	-7985,4	-54770	-665600	-1263000	0
98	1449	SLU STR.	-47920	27380	-56180	1992000	3547000	0
99	1449	SLU STR.	15470	-7830,8	-42530	-647000	-1242000	0
100	1449	SLU STR.	-47960	27530	-43950	2010000	3569000	0
101	1449	SLU STR.	9475,6	-4617,8	-54900	-412500	-805300	0
102	1449	SLU STR.	-28580	16600	-55750	1182000	2081000	0
103	1449	SLU STR.	9428,5	-4463,1	-42660	-393900	-783500	0
104	1449	SLU STR.	-28630	16750	-43510	1201000	2103000	0
105	1449	SLU STR.	9632,7	-3935,3	-56590	-388300	-825900	0
106	1449	SLU STR.	-28430	17280	-57440	1206000	2060000	0
107	1449	SLU STR.	9585,6	-3780,6	-44350	-369700	-804100	0
108	1449	SLU STR.	-28470	17440	-45200	1225000	2082000	0
109	1449	SLU STR.	9005,8	-6673,3	-50960	-485800	-744500	0
110	1449	SLU STR.	-29050	14540	-51810	1109000	2142000	0
111	1449	SLU STR.	8958,7	-6518,7	-38720	-467200	-722800	0
112	1449	SLU STR.	-29100	14700	-39570	1127000	2163000	0
113	1449	SLU STR.	9002,9	-6665,6	-50390	-484700	-743700	0
114	1449	SLU STR.	-29060	14550	-51240	1110000	2142000	0
115	1449	SLU STR.	8955,8	-6511,0	-38150	-466100	-721900	0
116	1449	SLU STR.	-29100	14710	-39000	1128000	2164000	0
117	1449	SLU STR.	9006,2	-6629,5	-49850	-471000	-743400	0
118	1449	SLU STR.	-29050	14590	-50700	1123000	2143000	0
119	1449	SLU STR.	8959,1	-6474,9	-37610	-452400	-721700	0
120	1449	SLU STR.	-29100	14740	-38460	1142000	2164000	0
121	1449	SLU STR.	8982,4	-6658,1	-51420	-491900	-740000	0
122	1449	SLU STR.	-29080	14560	-52270	1103000	2146000	0
123	1449	SLU STR.	8935,3	-6503,5	-39180	-473300	-718300	0
124	1449	SLU STR.	-29120	14710	-40030	1121000	2168000	0
125	1449	SLU STR.	15040	-10030	-49690	-736800	-1201000	0
126	1449	SLU STR.	-48390	25340	-51110	1921000	3609000	0
127	1449	SLU STR.	14990	-9871,0	-37450	-718200	-1179000	0
128	1449	SLU STR.	-48440	25490	-38870	1939000	3631000	0
129	1449	SLU STR.	9000,0	-6657,9	-49820	-483700	-742800	0
130	1449	SLU STR.	-29060	14560	-50670	1111000	2143000	0
131	1449	SLU STR.	8952,9	-6503,3	-37580	-465100	-721000	0
132	1449	SLU STR.	-29110	14710	-38440	1129000	2165000	0
133	1449	SLU STR.	8840,1	-7335,5	-48130	-507000	-721700	0
134	1449	SLU STR.	-29220	13880	-48980	1087000	2164000	0
135	1449	SLU STR.	8793,0	-7180,9	-35890	-488400	-700000	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 373 di
378

136	1449	SLU STR.	-29270	14040	-36740	1106000	2186000	0
137	1449	SLE Rare	6184,3	-3835,5	-40130	-308400	-526500	0
138	1449	SLE Rare	-19190	10310	-40690	754500	1398000	0
139	1449	SLE Rare	6182,4	-3830,4	-39750	-307800	-525900	0
140	1449	SLE Rare	-19190	10310	-40310	755200	1398000	0
141	1449	SLE Rare	6184,6	-3806,3	-39390	-298600	-525800	0
142	1449	SLE Rare	-19190	10340	-39950	764400	1398000	0
143	1449	SLE Rare	6168,7	-3825,4	-40430	-312500	-523500	0
144	1449	SLE Rare	-19200	10320	-41000	750500	1401000	0
145	1449	SLE Rare	10210	-6070,4	-39280	-475800	-830700	0
146	1449	SLE Rare	-32080	17500	-40220	1296000	2376000	0
147	1449	SLE Rare	6180,5	-3825,2	-39370	-307100	-525300	0
148	1449	SLE Rare	-19190	10320	-39940	755900	1399000	0
149	1449	SLE Rare	6497,7	-3832,6	-39880	-307700	-547900	0
150	1449	SLE Rare	-18880	10310	-40450	755300	1376000	0
151	1449	SLE Rare	6495,8	-3827,5	-39500	-307000	-547300	0
152	1449	SLE Rare	-18880	10320	-40070	756000	1377000	0
153	1449	SLE Rare	6498,0	-3803,4	-39140	-297800	-547200	0
154	1449	SLE Rare	-18880	10340	-39710	765100	1377000	0
155	1449	SLE Rare	6482,1	-3822,5	-40190	-311800	-544900	0
156	1449	SLE Rare	-18890	10320	-40760	751200	1379000	0
157	1449	SLE Rare	10520	-6067,5	-39030	-475100	-852100	0
158	1449	SLE Rare	-31770	17510	-39980	1297000	2355000	0
159	1449	SLE Rare	6702,8	-3820,4	-38960	-305800	-561000	0
160	1449	SLE Rare	-18670	10320	-39530	757100	1363000	0
161	1449	SLE Rare	6493,8	-3822,3	-39120	-306300	-546700	0
162	1449	SLE Rare	-18880	10320	-39690	756600	1377000	0
163	1449	SLE Rare	6027,6	-3837,0	-40250	-308800	-515800	0
164	1449	SLE Rare	-19350	10310	-40820	754200	1408000	0
165	1449	SLE Rare	6025,7	-3831,8	-39870	-308100	-515200	0
166	1449	SLE Rare	-19350	10310	-40440	754900	1409000	0
167	1449	SLE Rare	6027,9	-3807,7	-39510	-298900	-515100	0
168	1449	SLE Rare	-19350	10340	-40080	764000	1409000	0
169	1449	SLE Rare	6012,0	-3826,9	-40560	-312900	-512800	0
170	1449	SLE Rare	-19360	10320	-41120	750100	1411000	0
171	1449	SLE Rare	10050	-6071,8	-39400	-476100	-820000	0
172	1449	SLE Rare	-32240	17500	-40350	1295000	2387000	0
173	1449	SLE Rare	6023,8	-3826,7	-39490	-307400	-514600	0
174	1449	SLE Rare	-19350	10320	-40060	755600	1409000	0
175	1449	SLE Rare	5919,3	-3827,6	-39570	-307700	-507500	0
176	1449	SLE Rare	-19450	10320	-40140	755300	1417000	0
177	1449	SLE Rare	6341,4	-3153,0	-41820	-284300	-547100	0
178	1449	SLE Rare	-19030	10990	-42380	778700	1377000	0
179	1449	SLE Rare	6339,5	-3147,9	-41440	-283600	-546500	0
180	1449	SLE Rare	-19030	11000	-42010	779400	1378000	0
181	1449	SLE Rare	6341,7	-3123,8	-41080	-274400	-546300	0
182	1449	SLE Rare	-19030	11020	-41650	788600	1378000	0
183	1449	SLE Rare	6325,8	-3142,9	-42130	-288300	-544100	0
184	1449	SLE Rare	-19050	11000	-42690	774600	1380000	0
185	1449	SLE Rare	10370	-5387,9	-40970	-451600	-851300	0
186	1449	SLE Rare	-31920	18190	-41910	1320000	2355000	0
187	1449	SLE Rare	6337,6	-3142,7	-41060	-282900	-545900	0
188	1449	SLE Rare	-19040	11000	-41630	780100	1378000	0
189	1449	SLE Rare	6442,3	-2687,7	-42190	-266700	-559600	0
190	1449	SLE Rare	-18930	11460	-42750	796200	1364000	0
191	1449	SLE Rare	6024,4	-4513,1	-38430	-331700	-505400	0
192	1449	SLE Rare	-19350	9631,1	-39000	731300	1419000	0
193	1449	SLE Rare	6022,5	-4508,0	-38050	-331000	-504800	0
194	1449	SLE Rare	-19350	9636,3	-38620	732000	1419000	0
195	1449	SLE Rare	6024,6	-4483,9	-37690	-321800	-504700	0

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 374 di
378

196	1449	SLE Rare	-19350	9660,4	-38260	741100	1419000	0
197	1449	SLE Rare	6008,8	-4503,0	-38740	-335800	-502400	0
198	1449	SLE Rare	-19360	9641,3	-39310	727200	1422000	0
199	1449	SLE Rare	10050	-6747,9	-37580	-499100	-809700	0
200	1449	SLE Rare	-32240	16830	-38530	1273000	2397000	0
201	1449	SLE Rare	6020,5	-4502,8	-37670	-330300	-504300	0
202	1449	SLE Rare	-19350	9641,5	-38240	732600	1420000	0
203	1449	SLE Rare	5913,9	-4954,6	-36540	-345800	-490200	0
204	1449	SLE Rare	-19460	9189,7	-37110	717100	1434000	0
205	1449	SLE Freq.	147,5	-477,4	-37680	-57290	-68520	0
206	1449	SLE Freq.	149,5	-482,6	-38060	-57990	-69100	0
207	1449	SLE Freq.	150,3	-464,8	-37690	-51630	-68810	0
208	1449	SLE Freq.	139,7	-477,5	-38390	-60940	-67280	0
209	1449	SLE Freq.	5181,9	-3283,8	-37560	-268200	-450300	0
210	1449	SLE Freq.	-15960	8503,1	-38040	617600	1153000	0
211	1449	SLE Freq.	252,0	-476,4	-37600	-57050	-75650	0
212	1449	SLE Freq.	95,3	-477,9	-37720	-57410	-64950	0
213	1449	SLE Freq.	199,9	-249,9	-38240	-49230	-75380	0
214	1449	SLE Freq.	94,2	-703,3	-37110	-65050	-61500	0
215	1449	SLE Quasi P.	147,5	-477,4	-37680	-57290	-68520	0
216	1449	SLU A1 sism.	6948,6	-1213,5	-33940	-246700	-559300	0
217	1449	SLU A1 sism.	4722,0	-3345,7	-14490	-86910	-265200	0
218	1449	SLU A1 sism.	-4426,9	2390,9	-60870	-27670	128100	0
219	1449	SLU A1 sism.	-6653,6	258,7	-41410	132100	422200	0
220	1449	SLU A1 sism.	7067,5	-258,1	-33680	-165300	-563900	0
221	1449	SLU A1 sism.	4603,1	-4301,2	-14750	-168300	-260500	0
222	1449	SLU A1 sism.	-4308,0	3346,4	-60610	53710	123500	0
223	1449	SLU A1 sism.	-6772,5	-696,7	-41670	50750	426900	0
224	1449	SLU A1 sism.	8481,9	2366,6	-34470	35140	-681000	0
225	1449	SLU A1 sism.	6255,3	234,3	-15010	194900	-386900	0
226	1449	SLU A1 sism.	-5960,2	-1189,1	-60340	-309500	249900	0
227	1449	SLU A1 sism.	-8186,8	-3321,4	-40880	-149700	544000	0
228	1449	SLU A1 sism.	8600,8	3322,0	-34210	116500	-685700	0
229	1449	SLU A1 sism.	6136,4	-721,1	-15270	113600	-382300	0
230	1449	SLU A1 sism.	-5841,3	-233,7	-60080	-228100	245200	0
231	1449	SLU A1 sism.	-8305,7	-4276,8	-41150	-231100	548600	0
232	1449	SLU A1 sism.	5564,9	2535,6	-66070	-356500	-661800	0
233	1449	SLU A1 sism.	-1857,2	-4571,8	-1206,6	176200	318600	0
234	1449	SLU A1 sism.	2152,3	3617,0	-74150	-290800	-455600	0
235	1449	SLU A1 sism.	-5269,9	-3490,4	-9284,1	241900	524800	0
236	1449	SLU A1 sism.	6024,9	3609,7	-66230	-271900	-698300	0
237	1449	SLU A1 sism.	-1397,2	-3497,8	-1364,2	260700	282100	0
238	1449	SLU A1 sism.	1692,3	2543,0	-73990	-375300	-419100	0
239	1449	SLU A1 sism.	-5729,9	-4564,5	-9126,5	157300	561300	0
240	1449	SLU A1 sism.	5961,3	5720,4	-65190	-85200	-677300	0
241	1449	SLU A1 sism.	-2253,6	-7756,5	-2084,8	-95090	334000	0
242	1449	SLU A1 sism.	2548,6	6801,7	-73270	-19490	-471100	0
243	1449	SLU A1 sism.	-5666,2	-6675,2	-10160	-29380	540300	0
244	1449	SLU A1 sism.	6421,3	6794,4	-65350	-643,5	-713800	0
245	1449	SLU A1 sism.	-1793,6	-6682,5	-2242,4	-10540	297500	0
246	1449	SLU A1 sism.	2088,6	5727,7	-73110	-104000	-434600	0
247	1449	SLU A1 sism.	-6126,2	-7749,2	-10000	-113900	576800	0

VERIFICHE PALI

Diametro palo = 60,0 cm

Armatura corrente: 17 Ø 20 = 53,4 cmq

MANDATARIA

MANDANTE

PROGETTISTA INDICATO



**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**

REV. 00

Pag. 375 di
378

Armatura a taglio - st. circolari:
tratto sup. (600 cm) Ø8 / 5, tratto inf. (900 cm) Ø8 / 15

VERIFICHE VERIFICHE STATO LIMITE ULTIMO:

Ver. N/M = rapporto Sd/Su con sollecitazioni ultime proporzionali

Ver. (25)= rapporto Nd/Nu, dove Nu viene ottenuto con riduzione del 25% di fcd

Ver.V = verifica a taglio, rapporto Vd/Vrd

(Verifica positiva per valori inferiori a 1)

Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V	Stato
		cm	daN	daN	daN cm				
128	1449	0	-38867,3	54736,0	4116422	0,890	0,162	0,855	Ok
234	1449	0	-74147,8	4208,9	540485,1	0,110	0,310	0,062	Ok
72	1449	0	-41592,3	55211,3	4119078	0,886	0,174	0,859	Ok
128	1449	-50	-38823,3	34738,5	1563322	0,338	0,162	0,543	Ok
234	1449	-50	-74063,8	2362,9	553330,6	0,113	0,309	0,035	Ok
72	1449	-50	-41545,2	34933,5	1545151	0,332	0,174	0,544	Ok
233	1449	-100	-1201,4	1545,4	448952,6	0,108	0,005	0,026	Ok
234	1449	-100	-73828,1	2292,7	511652,9	0,104	0,308	0,034	Ok
128	1449	-100	-38699,8	17341,1	174938	0,038	0,162	0,271	Ok
100	1449	-150	-43568,2	3825,8	1088572	0,233	0,182	0,059	Ok
234	1449	-150	-73512,0	2134,2	417507,6	0,085	0,307	0,032	Ok
128	1449	-150	-38534,1	4010,5	1040928	0,225	0,161	0,063	Ok
100	1449	-200	-43418,8	2913,9	1279675	0,274	0,181	0,045	Ok
234	1449	-200	-73259,9	1363,5	316608,6	0,065	0,306	0,020	Ok
100	1449	-250	-43349,3	3542,2	1133989	0,243	0,181	0,055	Ok
234	1449	-250	-73142,7	1052,9	249125,5	0,051	0,306	0,016	Ok
100	1449	-300	-43316,6	3520,8	956882,4	0,205	0,181	0,055	Ok
234	1449	-300	-73087,5	970,2	196692,8	0,040	0,305	0,014	Ok
100	1449	-350	-43278,6	3393,2	780843,1	0,167	0,181	0,053	Ok
234	1449	-350	-73023,3	878,6	148409,3	0,030	0,305	0,013	Ok
100	1449	-400	-43235,3	3199,7	611185,6	0,131	0,181	0,050	Ok
234	1449	-400	-72950,3	786,5	104761,8	0,021	0,305	0,012	Ok
100	1449	-450	-43181,9	2917,5	451202,4	0,097	0,180	0,045	Ok
234	1449	-450	-72860,1	678,5	65896,6	0,013	0,304	0,010	Ok
72	1449	-500	-40805,0	2374,8	304143,8	0,065	0,170	0,037	Ok
234	1449	-500	-72744,3	506,7	33058,4	0,007	0,304	0,008	Ok
100	1449	-500	-43113,2	2397,3	305329,8	0,065	0,180	0,037	Ok
72	1449	-550	-40730,7	1833,2	185401,5	0,040	0,170	0,029	Ok
234	1449	-550	-72611,8	345,3	12282,3	0,003	0,303	0,005	Ok
100	1449	-550	-43034,7	1848,2	185469	0,040	0,180	0,029	Ok
128	1449	-600	-37988,5	1327,4	93845,9	0,020	0,159	0,021	Ok
234	1449	-600	-72471,2	214,8	15119,5	0,003	0,303	0,003	Ok
100	1449	-600	-42951,4	1355,4	93066,5	0,020	0,179	0,021	Ok
128	1449	-650	-37910,7	918,6	27489,6	0,006	0,158	0,014	Ok
234	1449	-650	-72322,8	114,7	23706,6	0,005	0,302	0,002	Ok
100	1449	-650	-42863,4	934,1	25325,5	0,005	0,179	0,015	Ok
233	1449	-700	-1174,3	53,8	25341,0	0,006	0,005	0,001	Ok
234	1449	-700	-72166,7	45,8	28550,0	0,006	0,301	0,001	Ok
72	1449	-700	-40481,0	588,4	20062,2	0,004	0,169	0,009	Ok
100	1449	-750	-42674,0	319,7	50906,8	0,011	0,178	0,005	Ok
234	1449	-750	-72003,2	32,2	29955,3	0,006	0,301	0,000	Ok
128	1449	-750	-37743,1	320,1	47632,9	0,010	0,158	0,005	Ok
100	1449	-800	-42572,8	118,3	66884,2	0,014	0,178	0,002	Ok
234	1449	-800	-71832,4	56,3	28873,8	0,006	0,300	0,001	Ok
128	1449	-800	-37653,7	123,1	63633,0	0,014	0,157	0,002	Ok
100	1449	-850	-42467,5	24,0	72795,2	0,016	0,177	0,000	Ok
234	1449	-850	-71654,7	72,5	26188,1	0,005	0,299	0,001	Ok
238	1449	-850	-71502,4	72,6	25183,4	0,005	0,299	0,001	Ok
100	1449	-900	-42358,1	116,4	71608,8	0,015	0,177	0,002	Ok

234	1449	-900	-71470,2	78,8	22616,9	0,005	0,299	0,001	Ok
100	1449	-950	-42244,9	169,8	65791,2	0,014	0,176	0,003	Ok
234	1449	-950	-71279,1	77,5	18707,4	0,004	0,298	0,001	Ok
100	1449	-1000	-42127,8	193,3	57303,5	0,012	0,176	0,003	Ok
234	1449	-1000	-71081,6	71,2	14850,9	0,003	0,297	0,001	Ok
100	1449	-1050	-42007,1	195,4	47636,2	0,010	0,175	0,003	Ok
234	1449	-1050	-70878,0	61,8	11306,8	0,002	0,296	0,001	Ok
100	1449	-1100	-41882,9	182,9	37866	0,008	0,175	0,003	Ok
234	1449	-1100	-70668,4	51,0	8227,8	0,002	0,295	0,001	Ok
100	1449	-1150	-41755,2	161,3	28722,4	0,006	0,174	0,003	Ok
234	1449	-1150	-70453,0	40,1	5684,6	0,001	0,294	0,001	Ok
100	1449	-1200	-41624,3	135,0	20657,1	0,004	0,174	0,002	Ok
234	1449	-1200	-70232,1	29,8	3687,4	0,001	0,293	0,000	Ok
100	1449	-1250	-41490,2	106,9	13909,2	0,003	0,173	0,002	Ok
234	1449	-1250	-70005,8	20,7	2204,7	0,000	0,292	0,000	Ok
100	1449	-1300	-41353,0	79,3	8563,7	0,002	0,173	0,001	Ok
234	1449	-1300	-69774,4	13,1	1177,2	0,000	0,291	0,000	Ok
100	1449	-1350	-41212,9	53,3	4601,2	0,001	0,172	0,001	Ok
234	1449	-1350	-69538,0	7,2	529,3	0,000	0,291	0,000	Ok
72	1449	-1400	-38871,2	29,7	1931,1	0,000	0,162	0,000	Ok
234	1449	-1400	-69296,8	3,0	176,3	0,000	0,289	0,000	Ok
72	1449	-1450	-38733,4	9,0	448,2	0,000	0,162	0,000	Ok
234	1449	-1450	-69051,1	0,6	30,3	0,000	0,288	0,000	Ok
233	1449	-1500	-1123,6	0,7	0	0	0,005	0,000	Ok
234	1449	-1500	-69051,1	0,6	0	0	0,288	0,000	Ok
72	1449	-1500	-38733,4	9,0	0	0	0,162	0,000	Ok

Sezioni maggiormente sollecitate:

sezioni maggioramento collegate:									
Pl.	Cmb.	Palo	Quota	N	V	M	Ver. N/M	Ver.(25)	Ver.V
			cm	daN	daN	daN cm			
1449	128	1449	0	-38867,3	54736,0	4116422	0,890	0,162	0,855
1449	234	1449	0	-74147,8	4208,9	540485,1	0,110	0,310	0,062
1449	72	1449	0	-41592,3	55211,3	4119078	0,886	0,174	0,859

S/Su massime:

Ver. N/M = 0,890 < 1 Ok

Ver. (25) = 0,310 < 1 Ok

Ver. V = 0,859 < 1 Ok

VERIFICHE STATO LIMITE DI ESERCIZIO:

Combinazioni di tipo: **SLE condizioni rare.**

Tensione lim. CLS = 149,4 daN/cm²

Tensione lim. acciaio = 3600 daN/cm²

Cmb.	Palo	Quota	N	M	Tens. A	Tens. C	Stato
		cm	daN	daN cm	daN/cm ²	daN/cm ²	
172	1449	0	-40345,9	2715662	2658,5	-147,8	Ok
200	1449	0	-38529,3	2713953	2691,7	-147,7	Ok
200	1449	-50	-38485,6	1018603	-677,5	-55,9	Ok
186	1449	-100	-41733,7	167344,8	-242,4	-17,3	Ok
186	1449	-150	-41555,0	735380,2	-516,2	-40,9	Ok
186	1449	-200	-41412,5	858591,3	-588,2	-47,3	Ok
186	1449	-250	-41346,3	759761,6	-529,9	-42,1	Ok
186	1449	-300	-41315,1	640631,8	-461,5	-36,0	Ok
186	1449	-350	-41278,8	522349,7	-397,4	-30,5	Ok
186	1449	-400	-41237,5	408451,7	-341,8	-25,7	Ok
186	1449	-450	-41186,5	301120,2	-295,7	-21,8	Ok
186	1449	-500	-41121,1	203321,8	-254,8	-18,4	Ok
186	1449	-550	-41046,1	123050,2	-221,2	-15,6	Ok
186	1449	-600	-40966,7	61246,6	-195,2	-13,4	Ok
186	1449	-650	-40882,8	16003,3	-176,0	-11,8	Ok

MANDATARIA

MANDANTE

PROGETTISTA INDICATO

**BOX CARRI BOMBOLAI TABULATI
DI CALCOLO**



REV. 00

Pag. 377 di
378

190	1449	-650	-41701,4	7872,8	-176,0	-11,8	Ok
204	1449	-650	-36198,3	10289,3	-154,2	-10,4	Ok
190	1449	-700	-41611,4	11213,8	-177,1	-11,9	Ok
186	1449	-750	-40702,1	34736,8	-183,1	-12,4	Ok
186	1449	-800	-40605,6	45291,0	-187,0	-12,8	Ok
186	1449	-850	-40505,1	49118,4	-188,2	-12,9	Ok
186	1449	-900	-40400,8	48212,1	-187,4	-12,8	Ok
186	1449	-950	-40292,8	44225,1	-185,3	-12,7	Ok
186	1449	-1000	-40181,2	38470,5	-182,4	-12,4	Ok
186	1449	-1050	-40066,1	31944,8	-179,3	-12,2	Ok
186	1449	-1100	-39947,6	25366,7	-176,0	-11,9	Ok
186	1449	-1150	-39825,8	19222,0	-173,0	-11,7	Ok
190	1449	-1150	-40623,2	11889,8	-173,2	-11,6	Ok
204	1449	-1150	-35262,5	11119,1	-150,7	-10,1	Ok
190	1449	-1200	-40495,9	8510,9	-171,3	-11,5	Ok
190	1449	-1250	-40365,4	5702,4	-169,6	-11,3	Ok
190	1449	-1300	-40231,9	3492,0	-168,1	-11,2	Ok
190	1449	-1350	-40095,6	1864,9	-166,1	-11,1	Ok
190	1449	-1400	-39956,6	779,2	-165,5	-11,0	Ok
190	1449	-1450	-39814,9	178,5	-165,0	-11,0	Ok
190	1449	-1500	-39814,9	0	-165,0	-11,0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. A	Tens. C
			cm	daN	daN cm	daN/cm ²	daN/cm ²
1449	172	1449	0	-40345,9	2715662	2658,5	-147,8
1449	200	1449	0	-38529,3	2713953	2691,7	-147,7

Valori massimi SLE condizioni rare:

Ten.massima CLS = 147,8 daN/cm² < Ten. lim. CLS = 149,4 daN/cm² Ok

Ten.massima acciaio = 2691,7 daN/cm² < Ten. lim. acciaio = 3600 daN/cm² Ok

Combinazioni di tipo: **SLE condizioni frequenti.**

Fessure: Wk amm. < 0,400 mm

Cmb.	Palo	Quota	N	M	Wk	Stato
		cm	daN	daN cm	mm	
210	1449	0	-38037,2	1308093	0,070	Ok
210	1449	-50	-37994,1	466752	0	Ok
210	1449	-100	-37873,2	98804,0	0	Ok
210	1449	-150	-37711,0	374232,9	0	Ok
210	1449	-200	-37581,7	431126,5	0	Ok
210	1449	-250	-37521,6	380425,1	0	Ok
210	1449	-300	-37493,3	320307,2	0	Ok
210	1449	-350	-37460,4	260745,6	0	Ok
210	1449	-400	-37422,9	203487	0	Ok
210	1449	-450	-37376,6	149600,6	0	Ok
210	1449	-500	-37317,2	100566,2	0	Ok
210	1449	-550	-37249,2	60406,7	0	Ok
210	1449	-600	-37177,1	29564,7	0	Ok
210	1449	-650	-37101,0	7049,7	0	Ok
210	1449	-700	-37020,9	8376,4	0	Ok
210	1449	-750	-36937,0	18019,6	0	Ok
210	1449	-800	-36849,4	23154,6	0	Ok
210	1449	-850	-36758,3	24939,0	0	Ok
210	1449	-900	-36663,6	24374,3	0	Ok
210	1449	-950	-36565,6	22289,2	0	Ok
210	1449	-1000	-36464,3	19340,2	0	Ok
210	1449	-1050	-36359,8	16024,2	0	Ok
210	1449	-1100	-36252,3	12698,4	0	Ok
210	1449	-1150	-36141,8	9603,1	0	Ok
210	1449	-1200	-36028,5	6885,4	0	Ok

210	1449	-1250	-35912,4	4621,2	0	Ok
210	1449	-1300	-35793,7	2835,3	0	Ok
208	1449	-1300	-36123,9	61,6	0	Ok
214	1449	-1300	-34923,4	105,0	0	Ok
208	1449	-1350	-36001,5	31,5	0	Ok
208	1449	-1400	-35876,7	14,8	0	Ok
208	1449	-1450	-35749,4	4,7	0	Ok
208	1449	-1500	-35749,4	0	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Wk
			cm	daN	daN cm	mm
1449	210	1449	0	-38037,2	1308093	0,070

Valori massimi SLE condizioni frequenti:

Fessure Wk massima = 0,070 mm < Wk amm. = 0,400 mm Ok

Combinazioni di tipo: **SLE condizioni quasi permanenti.**

Tensione lim. CLS = 112,1 daN/cm²

Fessure: Wk amm. < 0,300 mm

Cmb.	Palo	Quota	N	M	Tens. C	Wk	Stato
			daN	daN cm	daN/cm ²	mm	
215	1449	0	-37677,2	89312,9	-13,5	0	Ok
215	1449	-50	-37634,5	68233,0	-12,8	0	Ok
215	1449	-100	-37514,7	47746,2	-12,0	0	Ok
215	1449	-150	-37354,1	30838,3	-11,4	0	Ok
215	1449	-200	-37226,0	19922,6	-11,0	0	Ok
215	1449	-250	-37166,5	14888,3	-10,8	0	Ok
215	1449	-300	-37138,4	11424,3	-10,7	0	Ok
215	1449	-350	-37105,8	8353,3	-10,5	0	Ok
215	1449	-400	-37068,7	5704,4	-10,4	0	Ok
215	1449	-450	-37022,9	3544,8	-10,3	0	Ok
215	1449	-500	-36964,0	2193,9	-10,2	0	Ok
215	1449	-550	-36896,7	2013,4	-10,2	0	Ok
215	1449	-600	-36825,2	2323,5	-10,3	0	Ok
215	1449	-650	-36749,8	2549,6	-10,2	0	Ok
215	1449	-700	-36670,5	2582,0	-10,2	0	Ok
215	1449	-750	-36587,4	2449,2	-10,2	0	Ok
215	1449	-800	-36500,7	2204,1	-10,2	0	Ok
215	1449	-850	-36410,4	1896,8	-10,1	0	Ok
215	1449	-900	-36316,6	1567,7	-10,0	0	Ok
215	1449	-950	-36219,5	1246,5	-10,0	0	Ok
215	1449	-1000	-36119,2	953,0	-10,0	0	Ok
215	1449	-1050	-36015,7	698,9	-9,9	0	Ok
215	1449	-1100	-35909,2	489,4	-9,9	0	Ok
215	1449	-1150	-35799,7	325,1	-9,9	0	Ok
215	1449	-1200	-35687,5	203,1	-9,9	0	Ok
215	1449	-1250	-35572,5	118,4	-9,8	0	Ok
215	1449	-1300	-35454,9	64,3	-9,8	0	Ok
215	1449	-1350	-35334,8	32,8	-9,8	0	Ok
215	1449	-1400	-35212,2	15,1	-9,7	0	Ok
215	1449	-1450	-35087,4	4,7	-9,7	0	Ok
215	1449	-1500	-35087,4	0	-9,7	0	Ok

Sezioni maggiormente sollecitate:

Plin.	Cmb.	Palo	Quota	N	M	Tens. C	Wk
			cm	daN	daN cm	daN/cm ²	mm
1449	215	1449	0	-37677,2	89312,9	-13,5	0

Valori massimi SLE condizioni quasi permanenti:

Ten.massima CLS = 13,5 daN/cm² < Ten. lim. CLS = 112,1 daN/cm² Ok

Fessure Wk massima = 0 mm < Wk amm. = 0,300 mm Ok

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Pag. 379 di
380

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REV. 00

Pag. **380** di
380