

PERMESSO DI COSTRUIRE

AMPLIAMENTO DEL COMPARTO AUTODROMO DI MODENA

LOCALITA' MARZAGLIA – COMUNE DI MODENA

Provvedimento Autorizzatorio Unico (PAUR) e Valutazione di Impatto Ambientale (VIA), L.R. n. 4/2018, D.Lgs. 152/06
Progetto di modifica e ampliamento del comparto "Autodromo di Modena", in località Marzaglia, Comune di Modena (MO)



COMPARTO: AUTODROMO DI MODENA

PROPONENTE: AERAUTODROMO MODENA SPA

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STR-04.R01 - RELAZIONE ILLUSTRATIVA ELEMENTI ESSENZIALI DEL PROGETTO STRUTTURALE – RELAZIONE DI CALCOLO

P.d.C.2

RISTRUTTURAZIONE DI 2 EDIFICI
ESISTENTI E NUOVA COSTRUZIONE DI
EDIFICIO – DEMOLIZIONE DI VOLUMI



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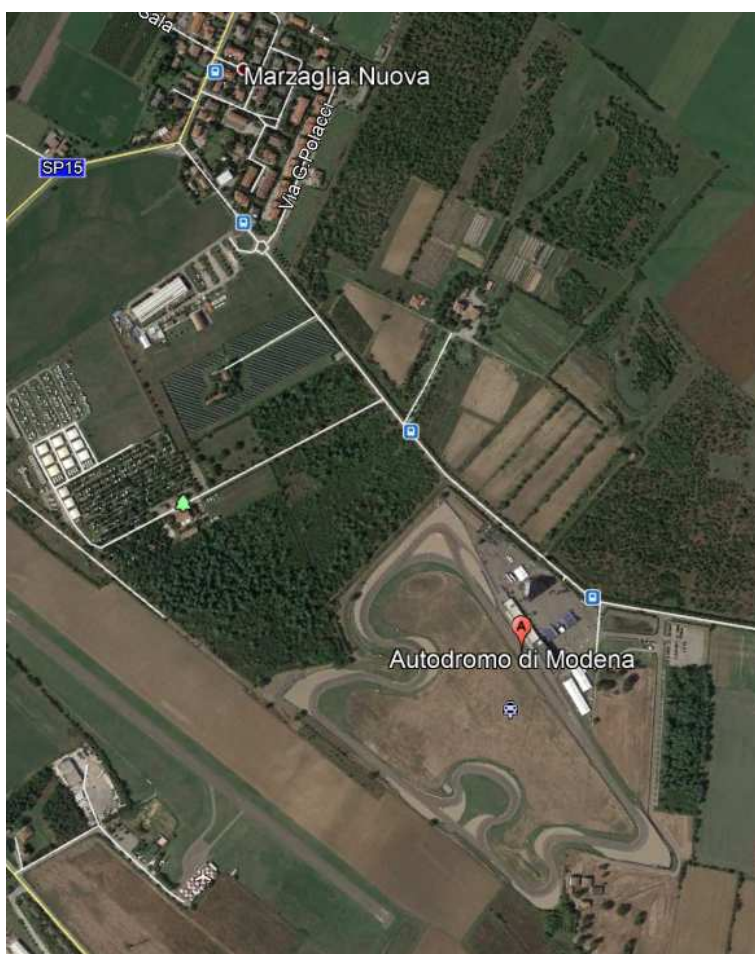
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1. ILLUSTRAZIONE SINTETICA DEGLI ELEMENTI ESSENZIALI DEL PROGETTO STRUTTURALE

a) Descrizione del contesto edilizio e delle caratteristiche geologiche, morfologiche e idrogeologiche del sito oggetto di intervento

a.1. Descrizione del contesto edilizio

Il fabbricato risulta essere:
Isolato dal contesto edilizio adiacente e inserito nel comparto autodromo di Modena



CONTESTO EDILIZIO

a.2. Caratteristiche geologiche, morfologiche e idrogeologiche del sito

Per le verifiche statiche del complesso terreno fondazione è stata presa in esame l'ipotesi di fondazione a plinti e cordoli di fondazione, e in relazione a ciò il valore della costante elastica (Winkler), determinato sulla base della relazione geologica del Dott. Geol. Pier Luigi Dallari, si quantifica in **$w = 1 \text{ kg/cm}^3$** .

Dalla relazione sopracitata si assume inoltre un valore di progetto della resistenza $R_d = 3.04 \text{ kg/cm}^2$ da confrontarsi con le combinazioni di carico del tipo SLU A1.

In relazione a quanto esposto nella normativa tecnica nazionale NTC 2018, si procede alla verifica nei confronti degli stati limite ultimi (SLU) di resistenza del terreno (GEO) relativamente alle opere di fondazione in oggetto, di tipo superficiale, fornendo il valore di resistenza offerta dal sistema geotecnico (Rd GEO).

Le verifiche sono effettuate applicando la combinazione (A1+M1+R3) di coefficienti parziali prevista dall'approccio 2, tenendo conto dei valori dei coefficienti parziali riportati nelle tabelle 6.2.I, 6.2.II e 6.4.I.

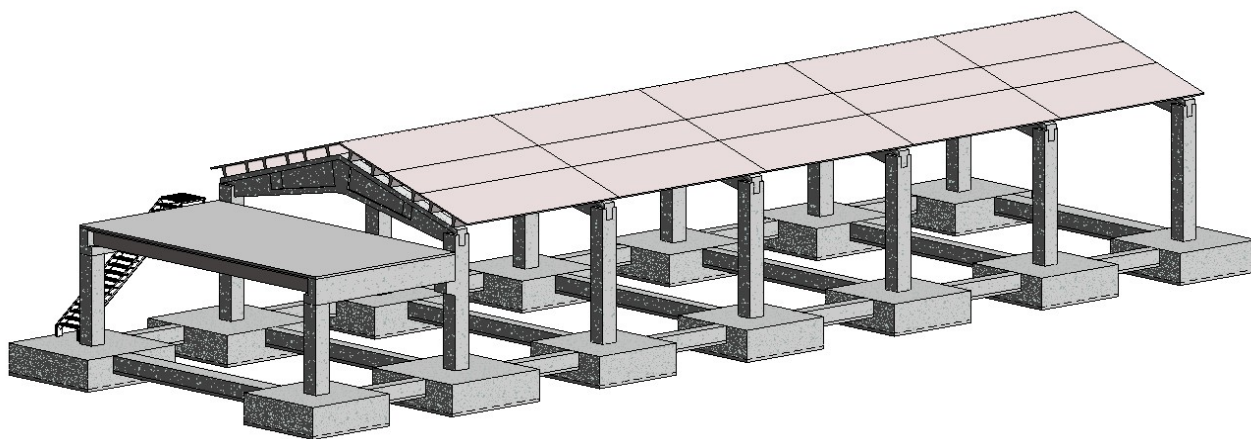
È stato eseguito il calcolo della Resistenza di Progetto Rd (kN/m²) in condizioni drenate e non drenate ipotizzando un carico applicato al terreno di fondazione pari a $P = 1.00 \text{ kg/cm}^2 \approx 100.0 \text{ kN/m}^2$ (Allegato n. 2).

RESISTENZA DI PROGETTO	(TERZAGHI 1955)	(HANSEN 1970)	(BRINCH-HANSEN 1970)
Condizioni Drenate	304.27 kN/m ²	306.04 kN/m ²	323.83 kN/m ²
Condizioni Non Drenate	239.57 kN/m ²	225.23 kN/m ²	201.77 kN/m ²

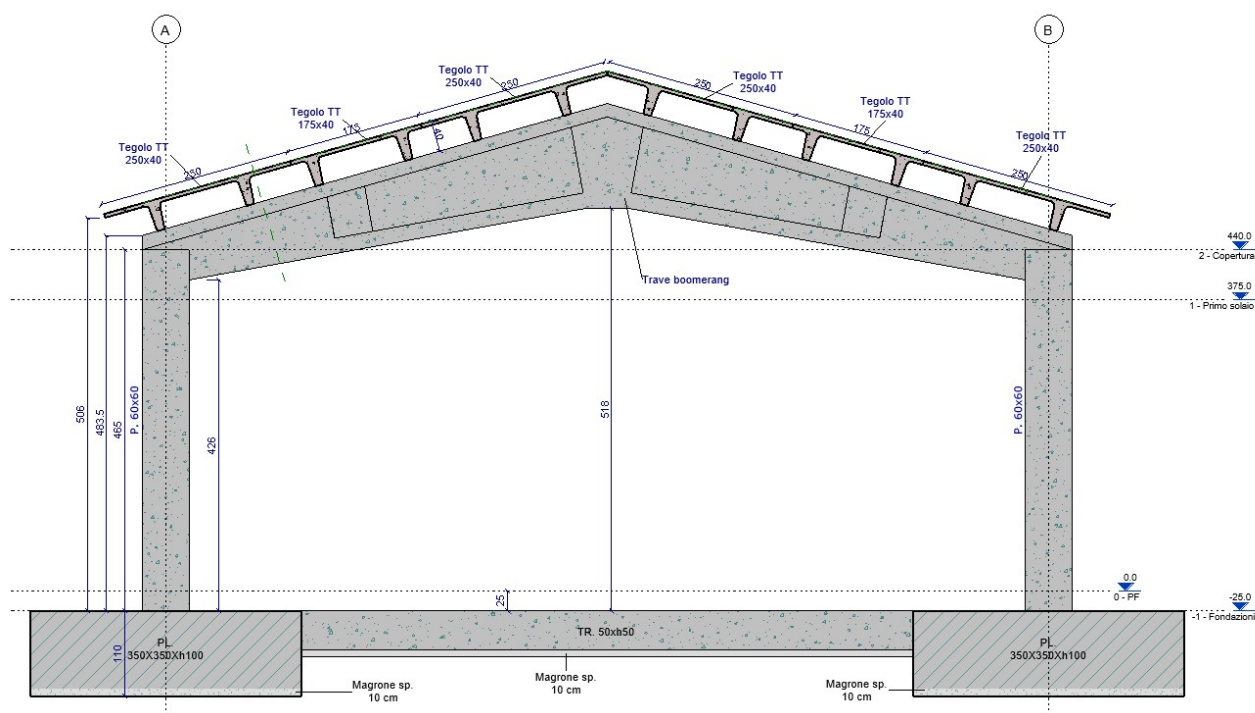
Dal punto di vista sismico si può considerare il profilo stratigrafico del sottosuolo di fondazione dell'area investigata appartenente alla **classe C**, caratterizzata da valori di V_s^{30} compresi tra 180 e 360 m/sec.

b) Descrizione generale della struttura in elevazione e in fondazione

Oggetto dell'intervento è la realizzazione di un edificio con struttura prefabbricata all'interno del comparto Autodromo di Modena.



La struttura portante è costituita da 14 pilastri prefabbricati di sezione 60x60 cm, travi di copertura a boomerang e tegoli tipo TT prefabbricati, come mostrato nell'immagine seguente.



Le strutture di fondazione sono costituite da plinti di dimensioni 350x350xH100 cm e 400x400xH100 cm collegati da cordoli di fondazione di sezione 50xH50 cm o 80xH50 cm. Tali elementi sono stati dimensionati in modo tale da svolgere solamente la funzione di collegamento tra le fondazioni e non per assorbire le azioni di flessione.

La struttura è stata calcolata con comportamento non dissipativo, i pilastri sono stati collegati alla fondazione con tecnologia "armatubo", il fissaggio delle travi principali prefabbricate ai pilastri è assicurato da dispositivi meccanici di collegamento (barre filettate le cui caratteristiche sono riportate nella seguente relazione di calcolo).

Il piano rigido è calcolato solo per il solaio piano in cui è prevista la realizzazione di una soletta armata con rete connessa sia ai tegoli che alle travi tramite cavallotti sporgenti.

Eventuali vincoli imposti dal progetto architettonico
Non presenti

c) Normativa tecnica e riferimenti tecnici utilizzati

c.1. Norme di riferimento cogenti

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".

c.2. Altre norme e documenti tecnici integrativi

1. Circolare 21gennaio 2019, n. 7 - Istruzioni per l'applicazione delle "Nuove norme tecniche per le costruzioni" di cui al D.M. 17 gennaio 2018
2. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
3. 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.
4. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
5. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.

6. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
7. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
8. 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.
9. 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.
10. 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.
11. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
12. 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.
13. 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.
14. 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.
15. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
16. 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.
17. 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.
18. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
19. 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.
20. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
21. 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.

c.3. Eventuali prescrizioni sismiche contenute negli strumenti di pianificazione territoriale edilizia

Non presenti

d) Parametri che concorrono alla definizione dell'azione sismica di base del sito

d.1. Azioni verticali di calcolo:

Peso proprio, Carichi permanenti, Carichi accidentali previsti dalla normativa in vigore

ANALISI DEI CARICHI SOLAIO PIANO			
peso proprio tegoli H 60 =	350	daN/mq	
soletta collaborante sp 8 cm =	200	daN/mq	
isolcap =	60	daN/mq	
doppia guaina =	10	daN/mq	
massetto =	80	daN/mq	
pavimento =	30	daN/mq	
TOTALE G1k =	730	daN/mq	
TOTALE Qk =	500	daN/mq	

ANALISI DEI CARICHI COPERTURA				
<i>peso proprio trave boomerang =</i>		<i>650</i>	<i>daN/m</i>	
<i>peso pannello parete =</i>		<i>450</i>	<i>daN/mq</i>	
carichi appesi =		10	daN/mq	
isolante =		5	daN/mq	
guaina =		5	daN/mq	
tegole =		50	daN/mq	
fotovoltaico =		10	daN/mq	
TOTALE G1k =		80	daN/mq	
TOTALE Qk =		120	daN/mq	

d.2. Azioni orizzontali di calcolo (sisma):

Localizzazione della struttura	
Località	MARZAGLIA (MO)
Comune	MODENA (MO)
Provincia	Modena
Regione	EMILIA-ROMAGNA
Longitudine	10.925
Latitudine	44.647

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):

ag: accelerazione orizzontale massima del terreno;

Fo: 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;

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
II	50.0	1.0	50.0	C	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente $S = S_s \cdot S_t$ (3.2.5)

Fo è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

Fv è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno ag su sito di riferimento rigido orizzontale

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

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

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

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	10.817	44.631	
16278	10.753	44.603	5.943
16279	10.823	44.605	2.966
16057	10.821	44.655	2.635
16056	10.750	44.653	5.793

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	30.0	0.050	2.475	0.250
SLD	63.0	50.0	0.062	2.498	0.270
SLV	10.0	475.0	0.162	2.381	0.290
SLC	5.0	975.0	0.208	2.383	0.310

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.050	1.500	2.475	0.744	0.138	0.415	1.798
SLD	0.062	1.500	2.498	0.837	0.146	0.437	1.846
SLV	0.162	1.468	2.381	1.295	0.153	0.458	2.249
SLC	0.208	1.403	2.383	1.467	0.160	0.479	2.432

d.3. Eventuali scenari di azioni eccezionali

Non presenti

e) Descrizione dei materiali e dei prodotti per uso strutturale

Calcestruzzo armato C40/50 – ELEMENTI PREFABBRICATI		
$R_{ck} =$	50 MPa	resistenza caratteristica cubica
$f_{cd} =$	22.6 MPa	resistenza a compressione di progetto
$f_{ctm} =$	3.5 MPa	resistenza media a trazione semplice
$E =$	35.000 MPa	modulo di elasticità normale (<i>Young</i>)
$\nu =$	0,12	coefficiente di contrazione trasversale (<i>Poisson</i>)
$G =$	16.509 MPa	modulo di elasticità tangenziale
$\gamma =$	25 kN/m³	peso specifico
$\alpha =$	10⁻⁵	coefficiente di dilatazione termica

Calcestruzzo armato C25/30 – FONDAZIONI ED ELEMENTI GETTATI IN OPERA		
$R_{ck} =$	30 MPa	resistenza caratteristica cubica
$f_{cd} =$	14,1 MPa	resistenza a compressione di progetto
$f_{ctm} =$	2,61 MPa	resistenza media a trazione semplice
$E =$	31.220 MPa	modulo di elasticità normale (<i>Young</i>)
$\nu =$	0,12	coefficiente di contrazione trasversale (<i>Poisson</i>)
$G =$	13.940 MPa	modulo di elasticità tangenziale
$\gamma =$	25 kN/m³	peso specifico
$\alpha =$	10⁻⁵	coefficiente di dilatazione termica

Acciaio da cemento armato – B450C		
$f_y =$	450 MPa	tensione di snervamento
$f_d =$	391.3	resistenza di calcolo
$E =$	206.000 MPa	modulo di elasticità normale (<i>Young</i>)
$\nu =$	0,3	coefficiente di contrazione trasversale (<i>Poisson</i>)
$G =$	80.769 MPa	modulo di elasticità tangenziale
$\gamma =$	78 kN/m³	peso specifico
$\alpha =$	10⁻⁵	coefficiente di dilatazione termica

f) Illustrazione dei criteri di progettazione e di modellazione

f.1. Fattore di struttura q

Calcolo dei fattori di comportamento secondo il D.M. 17/01/2018

La costruzione, nuova, è caratterizzata da non regolarità sia in pianta sia in altezza ed è progettata considerando un comportamento non dissipativo (ND).

Parametri fattore in direzione x e y

Sistema costruttivo: prefabbricato

Tipologia strutturale: strutture con pilastri incastrati e orizzontamenti incernierati

Valore base fattore $q_0 = 2.500$

Fattore di regolarità $K_R = 0.8$

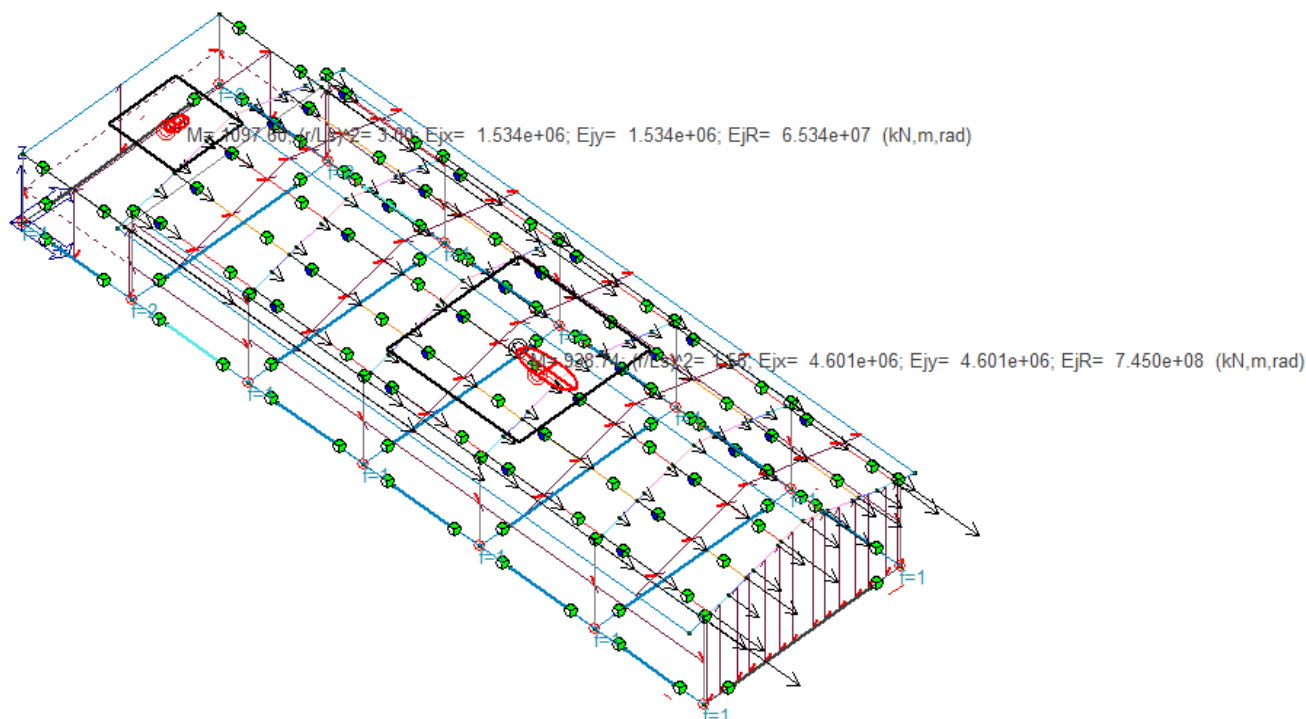
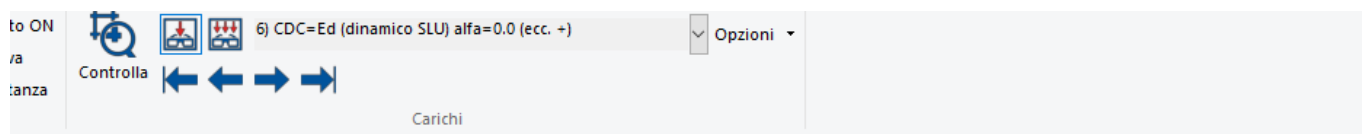
Fattore dissipativo $q_D = q_0 \cdot K_R = 2.000$

Fattore non dissipativo $q_{ND} = 2/3 \cdot q_D = 1.333 (\leq 1.5)$

Fattori di comportamento utilizzati

	Dissipativi	Non dissipativi
q SLU x	2.000	1.333
q SLU y	2.000	1.333
q SLU z	1.500	1.500

Di seguito inoltre si esplicita il rapporto r^2/Is^2 :



ESSENDO $r^2/Is^2 = 1.58 > 1 \rightarrow$ La struttura non è deformabile torsionalmente

f.2. Stati limite indagati

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**.

Combinazioni dei casi di carico	
SLU	SI
SLV (SLU con sisma)	SI
SLD	SI
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI
SLA (accidentale quale incendio)	SI

f.3. Giunti di separazione fra strutture contigue

Non presenti in quanto il fabbricato risulta essere isolato dal contesto edilizio.

f.4. Criteri di valutazione degli elementi non strutturali e degli impianti

Gli elementi non strutturali devono essere collegati alle strutture portanti tramite collegamenti prefabbricati certificati e tali da non influenzare il comportamento strutturale e lo stato di progetto e verifica degli stessi elementi strutturali

Gli impianti devono essere collocati in modo da non interrompere parzialmente e/o totalmente gli elementi strutturali verticali e orizzontali.

Il fabbricato in oggetto è classificato in classe d'uso III, pertanto ai sensi del cap 7.2 del DM2018:

In mancanza di espresse indicazioni in merito, deve essere conseguito dagli elementi non strutturali e dagli impianti, il rispetto dei vari stati limite:

- nei confronti di tutti gli stati limite di esercizio, qualora siano rispettate le verifiche relative al solo SLD;
- nei confronti di tutti gli stati limite ultimi, qualora siano soddisfatte le verifiche relative al solo SLV e in quanto la costruzione in esame è in classe d'uso III, per gli elementi non strutturali e gli impianti è richiesto anche il rispetto delle verifiche di sicurezza relative allo SLO, quali precisate nei §§ 7.3.7.2 e 7.3.7.3.

tali osservazioni valgono in modo particolare per:

- controsoffitti di qualsiasi natura od estensione
- velette appese
- pareti in struttura anche leggera (con particolare attenzione a quelle di altezza superiore a 4m)
- appensioni di impianti o strutture di peso significativo
- mobilio/allestimenti e scaffalature
- altri elementi non strutturali il cui collasso potrebbe interessare l'incolumità delle persone e/o la stabilità del fabbricato

Gli elementi strutturali secondari e gli elementi non strutturali autoportanti sono rappresentati unicamente in termini di massa.

f.5. Requisiti delle fondazioni e collegamenti tra fondazioni

Le fondazioni utilizzate per il complesso edile in esame sono costituite da plinti in cls collegati nelle due direzioni principali da cordoli di fondazione opportunamente dimensionati in modo tale da distribuire con valori sufficientemente regolari le pressioni sul terreno indotte dai carichi trasmessi dalla struttura sovrastante.

La verifica delle strutture fondali viene eseguita mediante il codice di calcolo in seguito indicato.

Le azioni trasmesse in fondazione derivano dall'analisi del comportamento dell'intera opera, in genere condotta esaminando la sola struttura in elevazione alla quale sono applicate le pertinenti combinazioni delle azioni di cui al § 2.5.3.

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”;

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 le sollecitazioni delle combinazioni con sisma 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.

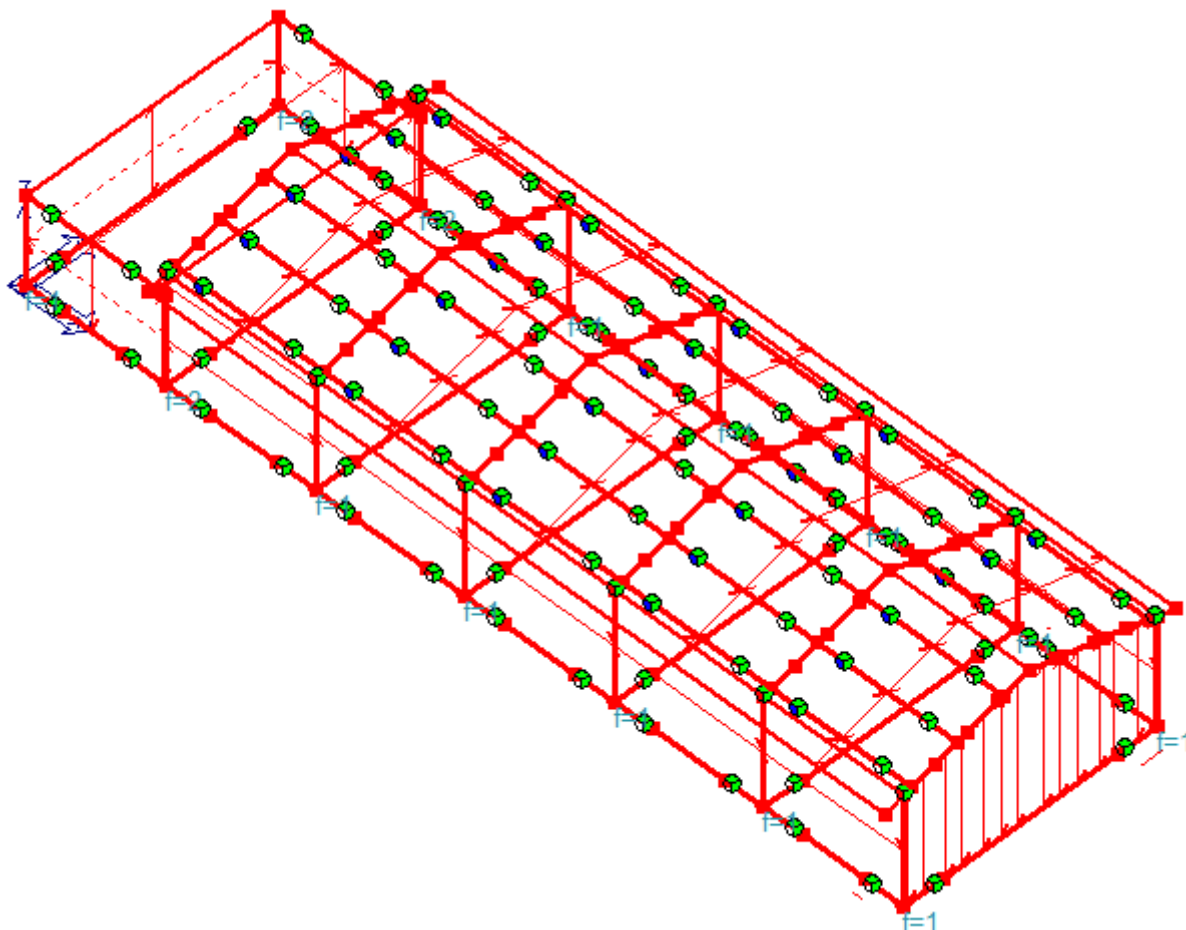
Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le

sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

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

f.6. Vincolamenti interni e/o esterni, schemi statici adottati

Principali fili strutturali del modello



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:

$$\mathbf{K} * \mathbf{u} = \mathbf{F}$$

dove \mathbf{K} = matrice di rigidezza
 \mathbf{u} = vettore spostamenti nodali
 \mathbf{F} = vettore forze nodali

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)

Modellazione della geometria e proprietà meccaniche:	
nodi	152
elementi D2 (per aste, travi, pilastri...)	191
elementi D3 (per pareti, platee, gusci...)	0
elementi solaio	47
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	5.00
Xmax =	3960.00
Ymin =	-79.74
Ymax =	1229.74
Zmin =	0.00
Zmax =	661.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	SI
Pareti	NO
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	SI
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	SI
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	SI
Fondazioni di tipo platea	NO
Fondazioni con elementi solidi	NO

Modellazione Struttura agli Elementi Finiti

L'analisi sismica del fabbricato è stata svolta attraverso un **modello agli elementi finiti** sviluppato secondo le seguenti ipotesi:

1. **Modellazione strutture verticali:**
 - 1.a. travi e pilastri modellati con elementi beam tridimensionali (3 g.d.l. per nodo)
2. **Modellazione orizzontamenti:**

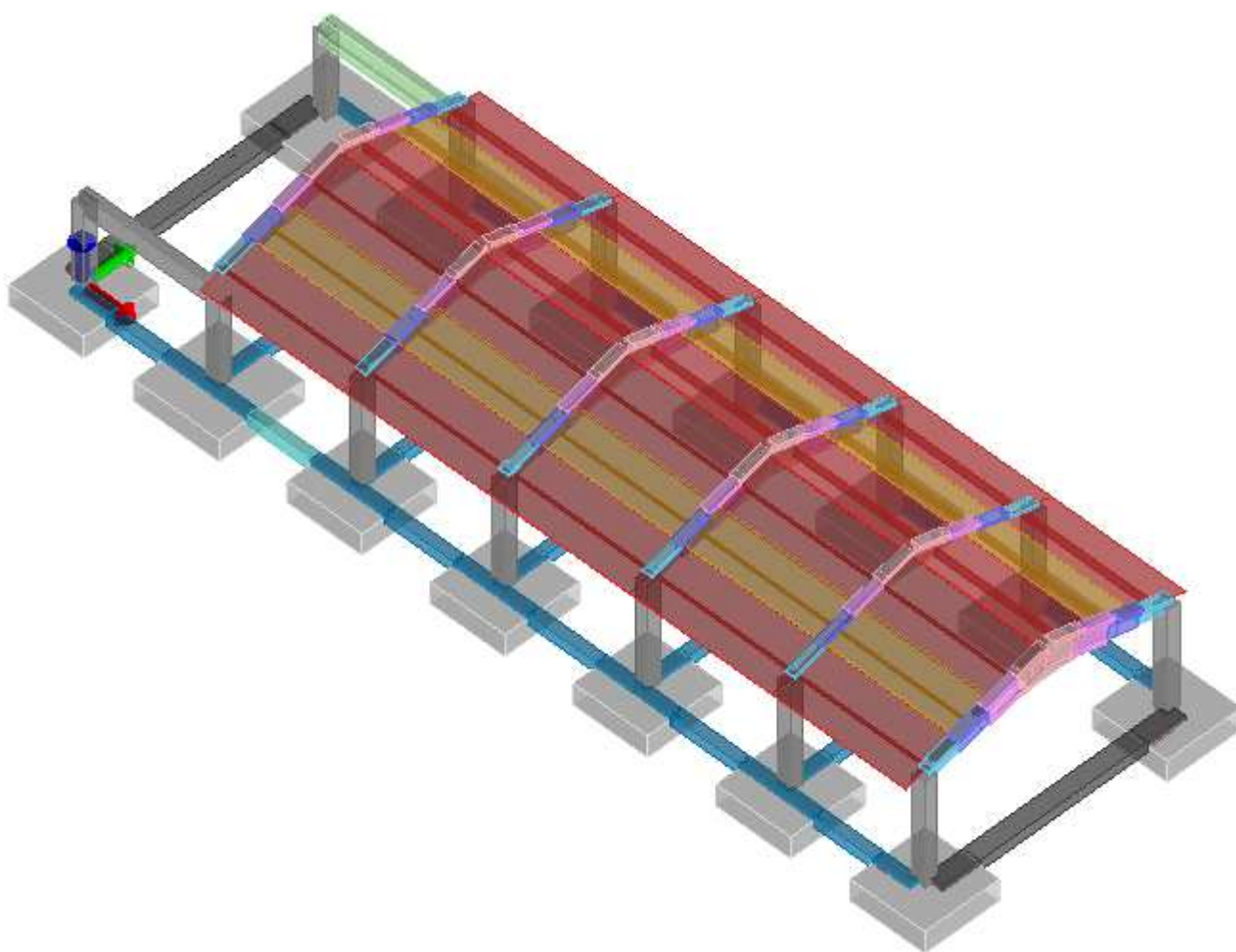
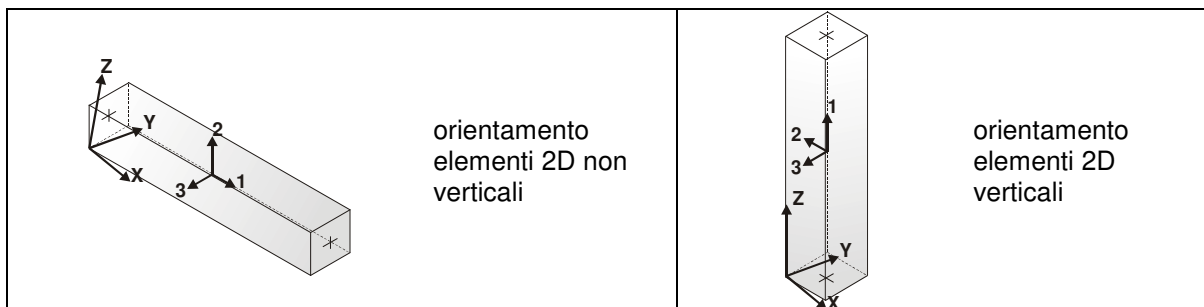
2.a. massa di piano distribuita; in fase di analisi si considera un'eccentricità accidentale del 5% come previsto da normativa;

3. Modellazione vincoli:

3.a. Vincolo rigido alla traslazione e alla rotazione;

4. Modellazione sezioni degli elementi beam:

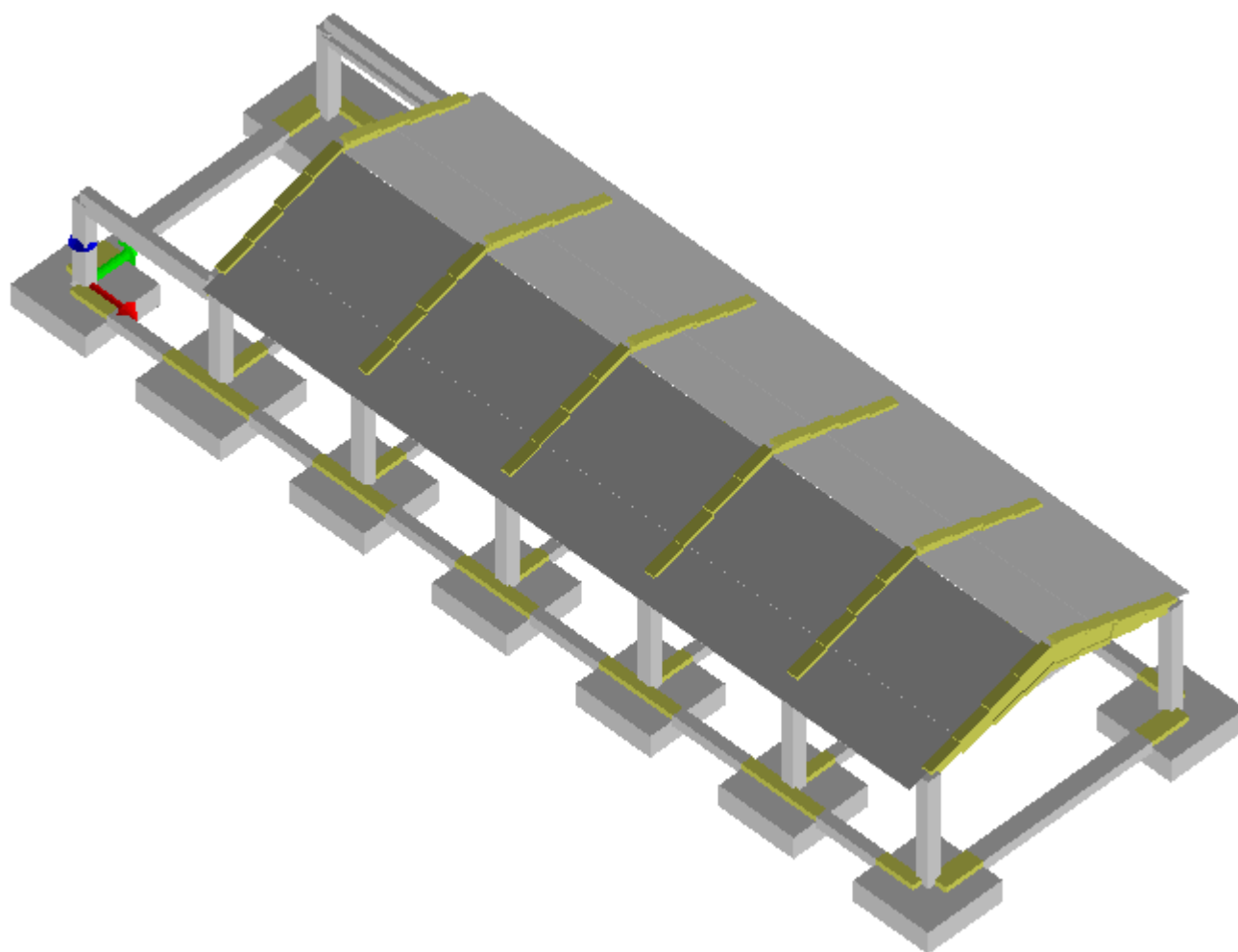
Ogni elemento è caratterizzato da un insieme di proprietà che ne completano la modellazione. In questa pagina viene messa in evidenza la sezione.



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
1	Rettangolare: b=60 h=60	3600.00	3000.00	3000.00	1.822e+06	1.080e+06	1.080e+06	3.600e+04	3.600e+04	5.400e+04	5.400e+04
2	Rettangolare: b=50 h=50	2500.00	2083.33	2083.33	8.785e+05	5.208e+05	5.208e+05	2.083e+04	2.083e+04	3.125e+04	3.125e+04
3	Rettangolare: b=50 h=40	2000.00	1666.67	1666.67	5.498e+05	4.167e+05	2.667e+05	1.667e+04	1.333e+04	2.500e+04	2.000e+04
4	L regolare: bi=60 ht=90 bs=40 hi=30	4200.00	0.0	0.0	1.752e+06	9.629e+05	2.938e+06	2.696e+04	5.961e+04	5.300e+04	9.675e+04
5	T ribassata: bi=25 ht=60 bs=45 hs=16	1820.00	0.0	0.0	2.781e+05	1.788e+05	5.845e+05	7946.30	1.726e+04	1.497e+04	2.852e+04

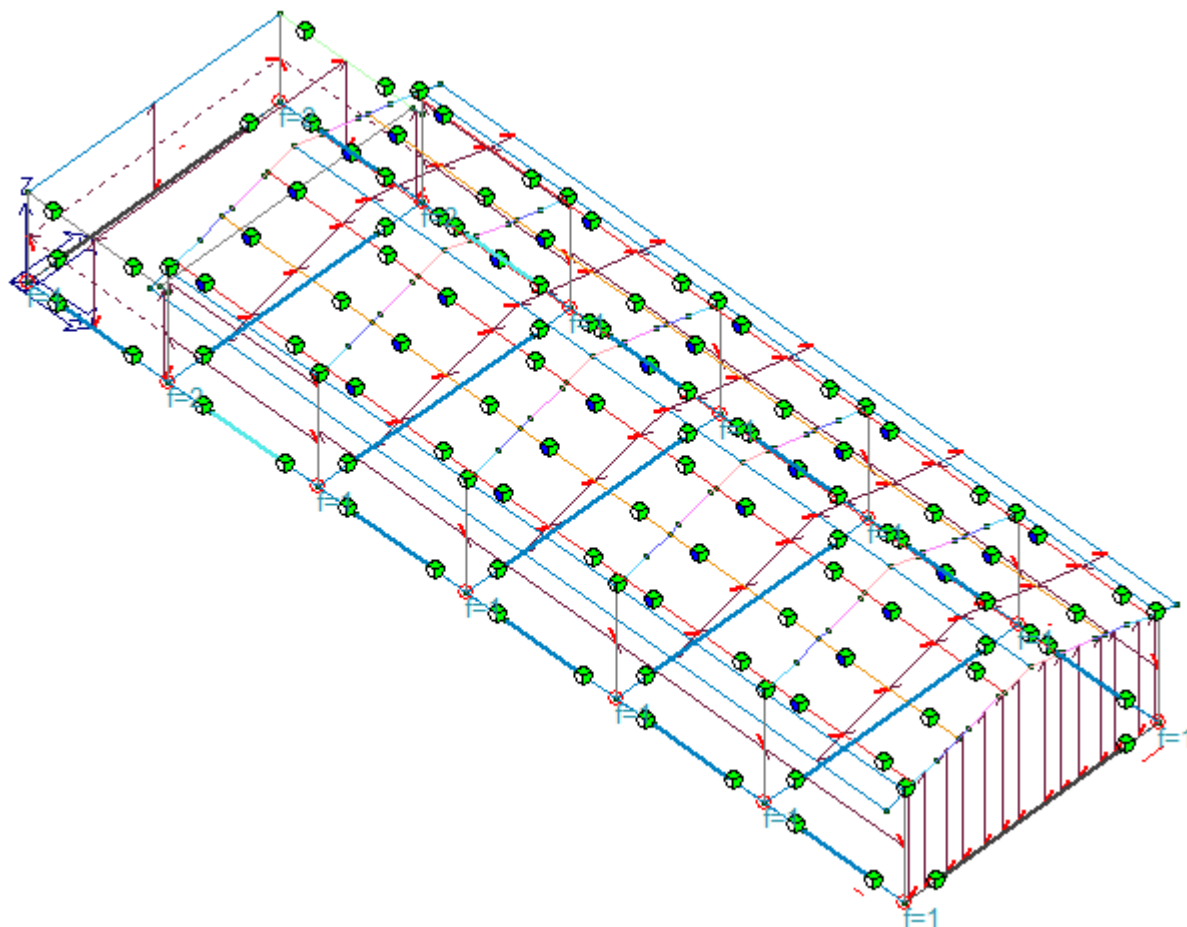
Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
6	T ribassata: bi=25 ht=80 bs=45 hs=16	2320.00	0.0	0.0	3.823e+05	2.048e+05	1.356e+06	9103.70	3.053e+04	1.810e+04	4.922e+04
7	Doppio T: bi=25 ba=11 bs=45 ht=110 hi=23 hs=15	2042.00	0.0	0.0	1.320e+05	1.518e+05	2.953e+06	6748.45	4.921e+04	1.337e+04	7.070e+04
8	Doppio T: bi=25 ba=11 bs=45 ht=130 hi=23 hs=15	2262.00	0.0	0.0	1.409e+05	1.541e+05	4.581e+06	6847.04	6.512e+04	1.397e+04	9.222e+04
9	T ribassata: bi=20 ht=40 bs=250 hs=5	1950.00	0.0	0.0	8.335e+04	6.534e+06	2.535e+05	5.227e+04	8362.32	8.163e+04	1.507e+04
10	T ribassata: bi=24.5 ht=40 bs=180 hs=5	1757.50	0.0	0.0	1.278e+05	2.473e+06	2.651e+05	2.748e+04	9554.48	4.575e+04	1.725e+04
11	Rettangolare: b=80 h=50	4000.00	3333.33	3333.33	2.021e+06	2.133e+06	8.333e+05	5.333e+04	3.333e+04	8.000e+04	5.000e+04
12	L inversa: bi=60 ht=90 bs=40 hi=30	4200.00	0.0	0.0	1.752e+06	9.629e+05	2.938e+06	2.696e+04	5.961e+04	5.300e+04	9.675e+04
13	Rettangolare: b=50 h=50	2500.00	2083.33	2083.33	8.785e+05	5.208e+05	5.208e+05	2.083e+04	2.083e+04	3.125e+04	3.125e+04

Rappresentazione materiali utilizzati



- Cemento armato
- Acciaio
- Muratura
- Legno

Modellazione dei vincoli interni ed esterni



Legenda vincoli

■	Nodo libero
➡	Vincolo rigido – traslazione X
⬇	Vincolo rigido – traslazione Y
➡	Vincolo rigido – traslazione Z
↺	Vincolo rigido – rotazione X
↻	Vincolo rigido – rotazione Y
↻	Vincolo rigido – rotazione Z
↺	Vincolo rigido – traslazione e rotazione X
↻	Vincolo rigido – traslazione e rotazione Y
↻	Vincolo rigido – traslazione e rotazione Z
⊙	Svincolo N sforzo normale
⊙	Svincolo T2 taglio
⊙	Svincolo T3 taglio
⊙	Svincolo M1 torcente
⊙	Svincolo M2 flettente
⊙	Svincolo M3 flettente
⊙	Svincolo N sforzo normale e M1 torcente
⊙	Svincolo T2 taglio e M2 flettente
⊙	Svincolo T3 taglio e M3 flettente

g) Principali combinazioni delle azioni

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.I

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 ≤ 30 kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30 kN)	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.I

		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

Come mostra la tabella sottostante per ciascuna combinazione in cui compaiono azioni orizzontali si considera l'effetto p-delta:

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	

Cmb	Tipo	Sigla Id	effetto P-delta
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	SLE(r)	Comb. SLE(rara) 15	
16	SLE(r)	Comb. SLE(rara) 16	
17	SLE(r)	Comb. SLE(rara) 17	
18	SLE(r)	Comb. SLE(rara) 18	
19	SLE(r)	Comb. SLE(rara) 19	
20	SLE(r)	Comb. SLE(rara) 20	
21	SLE(r)	Comb. SLE(rara) 21	
22	SLE(f)	Comb. SLE(freq.) 22	
23	SLE(f)	Comb. SLE(freq.) 23	
24	SLE(f)	Comb. SLE(freq.) 24	
25	SLE(f)	Comb. SLE(freq.) 25	
26	SLE(f)	Comb. SLE(freq.) 26	
27	SLE(p)	Comb. SLE(perm.) 27	
28	SLE(p)	Comb. SLE(perm.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	SI
30	SLU	Comb. SLU A1 (SLV sism.) 30	SI
31	SLU	Comb. SLU A1 (SLV sism.) 31	SI
32	SLU	Comb. SLU A1 (SLV sism.) 32	SI
33	SLU	Comb. SLU A1 (SLV sism.) 33	SI
34	SLU	Comb. SLU A1 (SLV sism.) 34	SI
35	SLU	Comb. SLU A1 (SLV sism.) 35	SI
36	SLU	Comb. SLU A1 (SLV sism.) 36	SI
37	SLU	Comb. SLU A1 (SLV sism.) 37	SI
38	SLU	Comb. SLU A1 (SLV sism.) 38	SI
39	SLU	Comb. SLU A1 (SLV sism.) 39	SI
40	SLU	Comb. SLU A1 (SLV sism.) 40	SI
41	SLU	Comb. SLU A1 (SLV sism.) 41	SI
42	SLU	Comb. SLU A1 (SLV sism.) 42	SI
43	SLU	Comb. SLU A1 (SLV sism.) 43	SI
44	SLU	Comb. SLU A1 (SLV sism.) 44	SI
45	SLU	Comb. SLU A1 (SLV sism.) 45	SI
46	SLU	Comb. SLU A1 (SLV sism.) 46	SI
47	SLU	Comb. SLU A1 (SLV sism.) 47	SI
48	SLU	Comb. SLU A1 (SLV sism.) 48	SI
49	SLU	Comb. SLU A1 (SLV sism.) 49	SI
50	SLU	Comb. SLU A1 (SLV sism.) 50	SI
51	SLU	Comb. SLU A1 (SLV sism.) 51	SI
52	SLU	Comb. SLU A1 (SLV sism.) 52	SI
53	SLU	Comb. SLU A1 (SLV sism.) 53	SI
54	SLU	Comb. SLU A1 (SLV sism.) 54	SI
55	SLU	Comb. SLU A1 (SLV sism.) 55	SI
56	SLU	Comb. SLU A1 (SLV sism.) 56	SI
57	SLU	Comb. SLU A1 (SLV sism.) 57	SI
58	SLU	Comb. SLU A1 (SLV sism.) 58	SI
59	SLU	Comb. SLU A1 (SLV sism.) 59	SI
60	SLU	Comb. SLU A1 (SLV sism.) 60	SI
61	SLU	Comb. SLU A1 (SLV sism.) 61	SI
62	SLU	Comb. SLU A1 (SLV sism.) 62	SI
63	SLU	Comb. SLU A1 (SLV sism.) 63	SI
64	SLU	Comb. SLU A1 (SLV sism.) 64	SI
65	SLU	Comb. SLU A1 (SLV sism.) 65	SI
66	SLU	Comb. SLU A1 (SLV sism.) 66	SI
67	SLU	Comb. SLU A1 (SLV sism.) 67	SI
68	SLU	Comb. SLU A1 (SLV sism.) 68	SI
69	SLU	Comb. SLU A1 (SLV sism.) 69	SI
70	SLU	Comb. SLU A1 (SLV sism.) 70	SI
71	SLU	Comb. SLU A1 (SLV sism.) 71	SI
72	SLU	Comb. SLU A1 (SLV sism.) 72	SI
73	SLU	Comb. SLU A1 (SLV sism.) 73	SI
74	SLU	Comb. SLU A1 (SLV sism.) 74	SI

Cmb	Tipo	Sigla Id	effetto P-delta
75	SLU	Comb. SLU A1 (SLV sism.) 75	SI
76	SLU	Comb. SLU A1 (SLV sism.) 76	SI
77	SLU	Comb. SLU A1 (SLV sism.) 77	SI
78	SLU	Comb. SLU A1 (SLV sism.) 78	SI
79	SLU	Comb. SLU A1 (SLV sism.) 79	SI
80	SLU	Comb. SLU A1 (SLV sism.) 80	SI
81	SLU	Comb. SLU A1 (SLV sism.) 81	SI
82	SLU	Comb. SLU A1 (SLV sism.) 82	SI
83	SLU	Comb. SLU A1 (SLV sism.) 83	SI
84	SLU	Comb. SLU A1 (SLV sism.) 84	SI
85	SLU	Comb. SLU A1 (SLV sism.) 85	SI
86	SLU	Comb. SLU A1 (SLV sism.) 86	SI
87	SLU	Comb. SLU A1 (SLV sism.) 87	SI
88	SLU	Comb. SLU A1 (SLV sism.) 88	SI
89	SLU	Comb. SLU A1 (SLV sism.) 89	SI
90	SLU	Comb. SLU A1 (SLV sism.) 90	SI
91	SLU	Comb. SLU A1 (SLV sism.) 91	SI
92	SLU	Comb. SLU A1 (SLV sism.) 92	SI
93	SLD(sis)	Comb. SLE (SLD Danno sism.) 93	SI
94	SLD(sis)	Comb. SLE (SLD Danno sism.) 94	SI
95	SLD(sis)	Comb. SLE (SLD Danno sism.) 95	SI
96	SLD(sis)	Comb. SLE (SLD Danno sism.) 96	SI
97	SLD(sis)	Comb. SLE (SLD Danno sism.) 97	SI
98	SLD(sis)	Comb. SLE (SLD Danno sism.) 98	SI
99	SLD(sis)	Comb. SLE (SLD Danno sism.) 99	SI
100	SLD(sis)	Comb. SLE (SLD Danno sism.) 100	SI
101	SLD(sis)	Comb. SLE (SLD Danno sism.) 101	SI
102	SLD(sis)	Comb. SLE (SLD Danno sism.) 102	SI
103	SLD(sis)	Comb. SLE (SLD Danno sism.) 103	SI
104	SLD(sis)	Comb. SLE (SLD Danno sism.) 104	SI
105	SLD(sis)	Comb. SLE (SLD Danno sism.) 105	SI
106	SLD(sis)	Comb. SLE (SLD Danno sism.) 106	SI
107	SLD(sis)	Comb. SLE (SLD Danno sism.) 107	SI
108	SLD(sis)	Comb. SLE (SLD Danno sism.) 108	SI
109	SLD(sis)	Comb. SLE (SLD Danno sism.) 109	SI
110	SLD(sis)	Comb. SLE (SLD Danno sism.) 110	SI
111	SLD(sis)	Comb. SLE (SLD Danno sism.) 111	SI
112	SLD(sis)	Comb. SLE (SLD Danno sism.) 112	SI
113	SLD(sis)	Comb. SLE (SLD Danno sism.) 113	SI
114	SLD(sis)	Comb. SLE (SLD Danno sism.) 114	SI
115	SLD(sis)	Comb. SLE (SLD Danno sism.) 115	SI
116	SLD(sis)	Comb. SLE (SLD Danno sism.) 116	SI
117	SLD(sis)	Comb. SLE (SLD Danno sism.) 117	SI
118	SLD(sis)	Comb. SLE (SLD Danno sism.) 118	SI
119	SLD(sis)	Comb. SLE (SLD Danno sism.) 119	SI
120	SLD(sis)	Comb. SLE (SLD Danno sism.) 120	SI
121	SLD(sis)	Comb. SLE (SLD Danno sism.) 121	SI
122	SLD(sis)	Comb. SLE (SLD Danno sism.) 122	SI
123	SLD(sis)	Comb. SLE (SLD Danno sism.) 123	SI
124	SLD(sis)	Comb. SLE (SLD Danno sism.) 124	SI
125	SLU	Comb. SLU A1 (SLV sism.) 125	SI
126	SLU	Comb. SLU A1 (SLV sism.) 126	SI
127	SLU	Comb. SLU A1 (SLV sism.) 127	SI
128	SLU	Comb. SLU A1 (SLV sism.) 128	SI
129	SLU	Comb. SLU A1 (SLV sism.) 129	SI
130	SLU	Comb. SLU A1 (SLV sism.) 130	SI
131	SLU	Comb. SLU A1 (SLV sism.) 131	SI
132	SLU	Comb. SLU A1 (SLV sism.) 132	SI
133	SLU	Comb. SLU A1 (SLV sism.) 133	SI
134	SLU	Comb. SLU A1 (SLV sism.) 134	SI
135	SLU	Comb. SLU A1 (SLV sism.) 135	SI
136	SLU	Comb. SLU A1 (SLV sism.) 136	SI
137	SLU	Comb. SLU A1 (SLV sism.) 137	SI
138	SLU	Comb. SLU A1 (SLV sism.) 138	SI
139	SLU	Comb. SLU A1 (SLV sism.) 139	SI
140	SLU	Comb. SLU A1 (SLV sism.) 140	SI
141	SLU	Comb. SLU A1 (SLV sism.) 141	SI
142	SLU	Comb. SLU A1 (SLV sism.) 142	SI
143	SLU	Comb. SLU A1 (SLV sism.) 143	SI
144	SLU	Comb. SLU A1 (SLV sism.) 144	SI
145	SLU	Comb. SLU A1 (SLV sism.) 145	SI
146	SLU	Comb. SLU A1 (SLV sism.) 146	SI

Cmb	Tipo	Sigla Id	effetto P-delta
147	SLU	Comb. SLU A1 (SLV sism.) 147	SI
148	SLU	Comb. SLU A1 (SLV sism.) 148	SI
149	SLU	Comb. SLU A1 (SLV sism.) 149	SI
150	SLU	Comb. SLU A1 (SLV sism.) 150	SI
151	SLU	Comb. SLU A1 (SLV sism.) 151	SI
152	SLU	Comb. SLU A1 (SLV sism.) 152	SI
153	SLU	Comb. SLU A1 (SLV sism.) 153	SI
154	SLU	Comb. SLU A1 (SLV sism.) 154	SI
155	SLU	Comb. SLU A1 (SLV sism.) 155	SI
156	SLU	Comb. SLU A1 (SLV sism.) 156	SI
157	SLU(acc.)	Comb. SLU (Accid.) 157	
158	SLU(acc.)	Comb. SLU (Accid.) 158	

h) Indicazione del metodo di analisi

Nel proseguo 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.

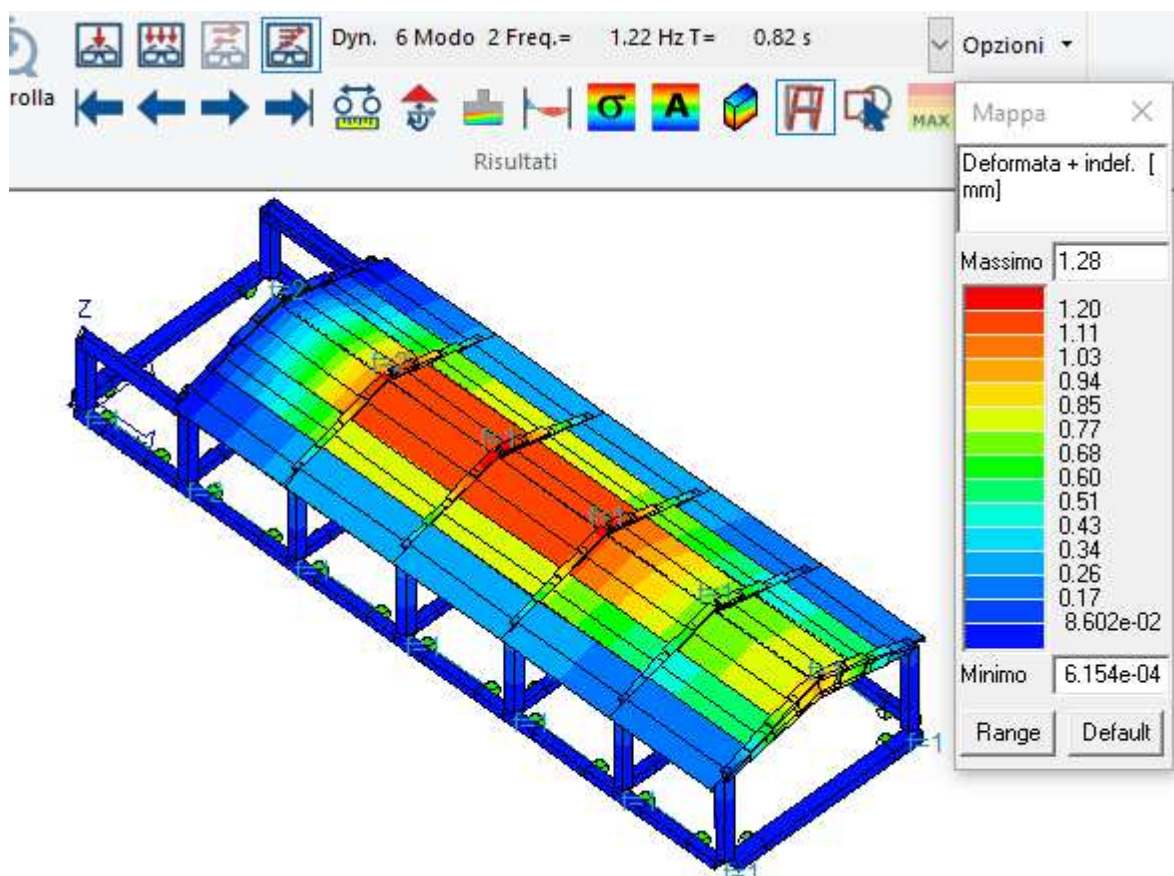
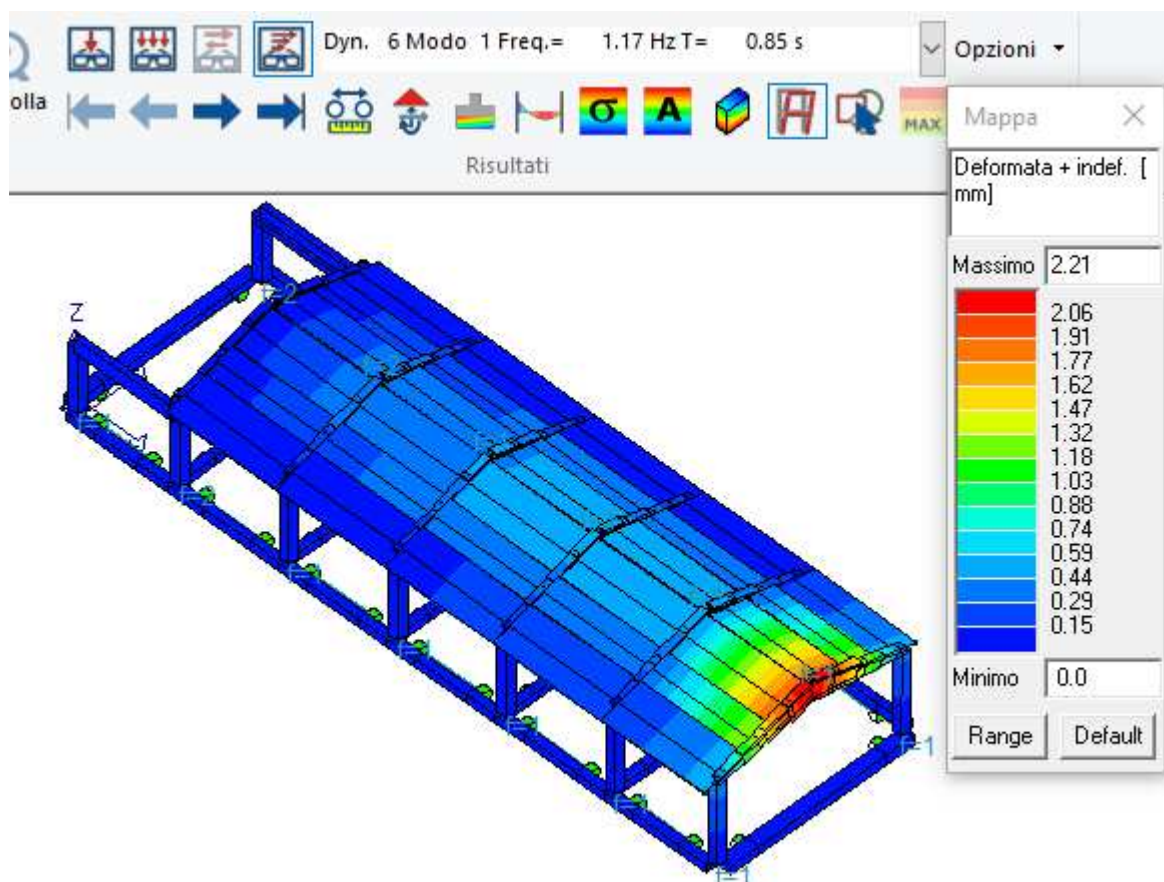
In accordo con le prescrizioni individuate dal capitolo 7.3., poiché la struttura non gode di particolari regolarità in pianta e in altezza si realizzano le seguenti analisi:

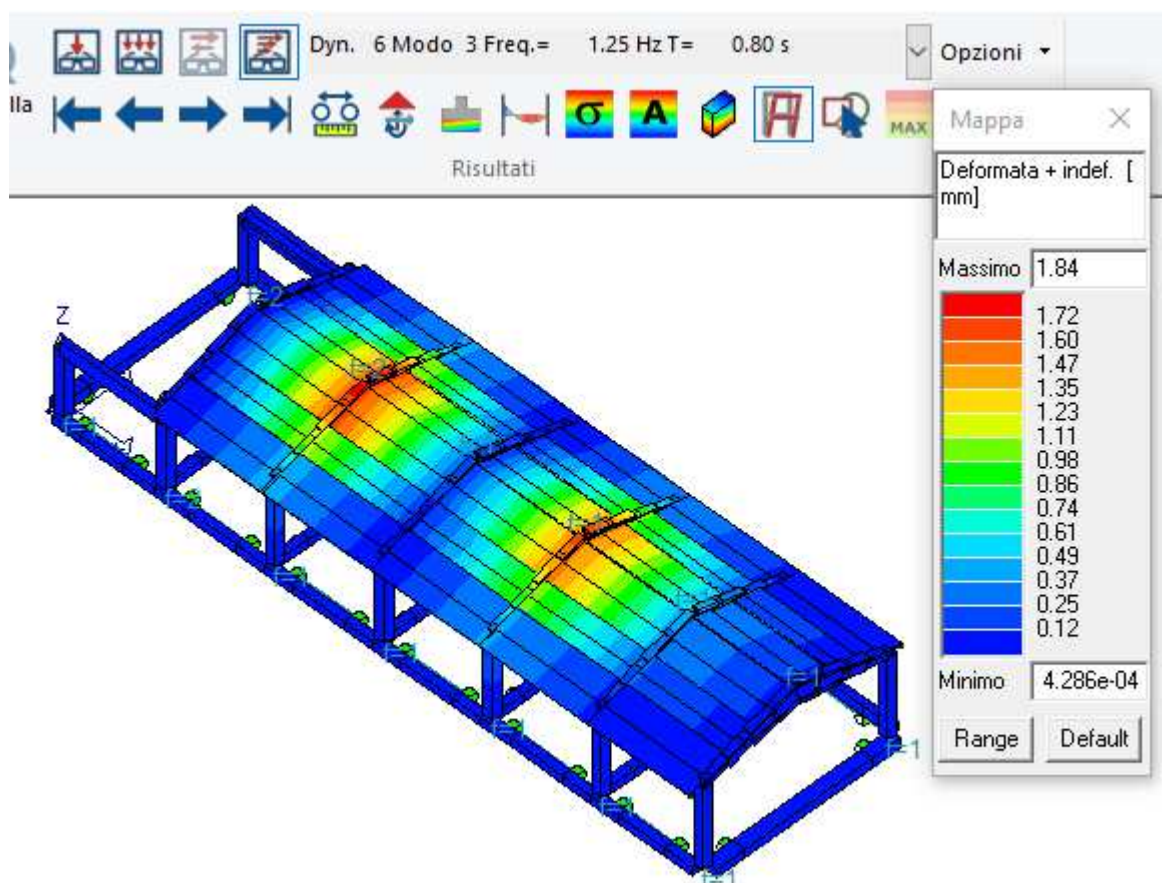
Tipo di analisi strutturale	
Statica ai carichi verticali	SI
Sismica dinamica lineare	SI
Non linearità geometriche (fattore P delta)	SI
Progetto-verifica degli elementi	
Progetto cemento armato	D.M. 17-01-2018
Progetto acciaio	D.M. 17-01-2018
Progetto legno	D.M. 17-01-2018
Progetto muratura	D.M. 17-01-2018
Azione sismica	
Norma applicata per l' azione sismica	D.M. 17-01-2018

È stata svolta un'analisi modale considerando l'eccentricità accidentale pari al 5% di ciascuna delle dimensioni in pianta dell'edificio. I risultati delle analisi modali sono riassunti nella seguente tabella, dove è stata riportata anche l'accelerazione spettrale modo per modo sia per lo SLU sia per lo SLD:

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	1.170	0.855	0.228	1.168e+05	29.7	0.08	1.96e-05	0.13	3.39e-05	0.0	0.0
2	1.217	0.821	0.237	8.641e+04	22.0	0.18	4.62e-05	0.15	3.69e-05	0.0	0.0
3	1.246	0.803	0.243	17.37	4.42e-03	7.05e-03	1.79e-06	8.77e-03	2.23e-06	0.0	0.0
4	1.249	0.801	0.243	67.84	1.73e-02	4.29e-04	0.0	3.47e-04	0.0	0.0	0.0
5	1.258	0.795	0.245	2085.37	0.5	2.69e-04	0.0	4.19e-05	0.0	0.0	0.0
6	1.642	0.609	0.320	4.029e+04	10.3	17.79	4.53e-03	30.36	7.73e-03	0.0	0.0
7	1.942	0.515	0.378	0.05	1.37e-05	2.263e+05	57.6	1.88e-04	0.0	0.0	0.0
8	2.007	0.498	0.391	0.60	1.52e-04	154.13	3.92e-02	9.75e-04	0.0	0.0	0.0
9	2.075	0.482	0.404	0.77	1.96e-04	2.864e+04	7.3	1.50e-03	0.0	0.0	0.0
10	2.120	0.472	0.413	0.77	1.95e-04	413.41	0.1	8.94e-04	0.0	0.0	0.0
11	2.286	0.437	0.425	3.59	9.13e-04	2.137e+04	5.4	1.18e-03	0.0	0.0	0.0
12	2.343	0.427	0.425	661.28	0.2	9.810e+04	25.0	0.70	1.78e-04	0.0	0.0
13	2.618	0.382	0.425	8983.04	2.3	8481.71	2.2	2.56	6.52e-04	0.0	0.0
14	2.905	0.344	0.425	1.553e+04	4.0	2009.33	0.5	25.55	6.50e-03	0.0	0.0
15	2.945	0.340	0.425	2.537e+04	6.5	1363.52	0.3	39.55	1.01e-02	0.0	0.0
16	2.954	0.339	0.425	1.730e+04	4.4	776.34	0.2	27.38	6.97e-03	0.0	0.0
17	2.964	0.337	0.425	15.30	3.89e-03	5.69e-03	1.45e-06	5.09e-03	1.30e-06	0.0	0.0
18	3.143	0.318	0.425	6.810e+04	17.3	3656.73	0.9	58.98	1.50e-02	0.0	0.0
19	3.366	0.297	0.425	387.14	9.85e-02	65.21	1.66e-02	0.06	1.58e-05	0.0	0.0
20	3.481	0.287	0.425	6404.52	1.6	195.75	4.98e-02	75.15	1.91e-02	0.0	0.0
21	3.641	0.275	0.425	20.93	5.33e-03	4.90	1.25e-03	3.29	8.38e-04	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spetttrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
22	3.669	0.273	0.425	27.58	7.02e-03	0.36	9.08e-05	0.30	7.71e-05	0.0	0.0
23	3.686	0.271	0.425	154.65	3.94e-02	4.94e-03	1.26e-06	0.02	6.25e-06	0.0	0.0
24	4.305	0.232	0.425	3145.20	0.8	0.39	9.88e-05	0.11	2.86e-05	0.0	0.0
25	6.180	0.162	0.425	7.13e-03	1.81e-06	4.30e-06	0.0	4.442e+04	11.3	0.0	0.0
26	6.355	0.157	0.425	2.64e-04	0.0	0.0	0.0	9.291e+04	23.6	0.0	0.0
27	6.426	0.156	0.425	5.03e-03	1.28e-06	0.0	0.0	9.09	2.31e-03	0.0	0.0
28	6.504	0.154	0.425	2.08e-05	0.0	0.0	0.0	5801.83	1.5	0.0	0.0
29	6.561	0.152	0.425	4.85e-03	1.23e-06	0.0	0.0	3052.58	0.8	0.0	0.0
30	7.745	0.129	0.396	4.80	1.22e-03	4.25e-03	1.08e-06	9.96e-03	2.53e-06	0.0	0.0
31	7.771	0.129	0.396	8.06e-04	0.0	2.52e-04	0.0	2.14e-03	0.0	0.0	0.0
32	7.774	0.129	0.396	4.11e-03	1.05e-06	0.0	0.0	4.62e-04	0.0	0.0	0.0
33	7.855	0.127	0.394	0.89	2.26e-04	3.73e-03	0.0	1.72e-04	0.0	0.0	0.0
34	8.074	0.124	0.390	2.07	5.28e-04	0.08	2.05e-05	2.16e-03	0.0	0.0	0.0
35	8.783	0.114	0.377	0.13	3.33e-05	11.27	2.87e-03	0.35	8.85e-05	0.0	0.0
36	9.381	0.107	0.369	62.60	1.59e-02	2.39e-03	0.0	4.205e+04	10.7	0.0	0.0
37	13.337	0.075	0.330	0.02	3.85e-06	4.02	1.02e-03	0.03	7.39e-06	0.0	0.0
38	14.643	0.068	0.322	0.23	5.77e-05	1.29e-05	0.0	5.52	1.41e-03	0.0	0.0
39	14.894	0.067	0.320	1.87	4.75e-04	3.44	8.75e-04	2.061e+04	5.2	0.0	0.0
40	15.109	0.066	0.319	477.69	0.1	0.06	1.53e-05	3.991e+04	10.2	0.0	0.0
41	15.717	0.064	0.316	1.53	3.90e-04	3.24e-05	0.0	8.43	2.15e-03	0.0	0.0
42	15.719	0.064	0.316	0.01	3.26e-06	1.27e-06	0.0	0.71	1.82e-04	0.0	0.0
43	15.719	0.064	0.316	5.48e-03	1.39e-06	0.0	0.0	0.13	3.27e-05	0.0	0.0
44	15.848	0.063	0.315	0.0	0.0	1.40e-04	0.0	2.73e-04	0.0	0.0	0.0
45	15.861	0.063	0.315	2.83e-06	0.0	6.32e-04	0.0	2.64e-04	0.0	0.0	0.0
46	15.875	0.063	0.315	5.42e-06	0.0	0.04	1.11e-05	2.90e-04	0.0	0.0	0.0
47	15.890	0.063	0.315	0.38	9.60e-05	2.12e-06	0.0	0.60	1.53e-04	0.0	0.0
48	16.047	0.062	0.314	0.0	0.0	0.03	7.20e-06	0.0	0.0	0.0	0.0
49	16.695	0.060	0.311	0.08	2.09e-05	0.46	1.18e-04	2.806e+04	7.1	0.0	0.0
50	16.840	0.059	0.311	0.0	0.0	1.52	3.87e-04	5.36e-05	0.0	0.0	0.0
51	18.298	0.055	0.305	0.10	2.47e-05	1155.16	0.3	8.48	2.16e-03	0.0	0.0
52	18.443	0.054	0.305	96.00	2.44e-02	4.57	1.16e-03	445.94	0.1	0.0	0.0
53	19.026	0.053	0.302	4.38e-03	1.11e-06	1.64e-05	0.0	2243.45	0.6	0.0	0.0
54	19.056	0.052	0.302	6.82e-03	1.74e-06	2.52e-05	0.0	339.30	8.64e-02	0.0	0.0
55	19.092	0.052	0.302	3.59e-03	0.0	1.26e-05	0.0	6.517e+04	16.6	0.0	0.0
56	19.288	0.052	0.302	2.49e-04	0.0	0.0	0.0	2.920e+04	7.4	0.0	0.0
57	23.476	0.043	0.290	0.17	4.41e-05	0.0	0.0	1.607e+04	4.1	0.0	0.0
58	26.552	0.038	0.284	4.01e-04	0.0	0.39	9.98e-05	2.69e-04	0.0	0.0	0.0
59	26.558	0.038	0.284	0.03	7.30e-06	3.82e-04	0.0	6.86e-05	0.0	0.0	0.0
60	26.559	0.038	0.284	0.0	0.0	4.94e-03	1.26e-06	1.14e-05	0.0	0.0	0.0
61	26.559	0.038	0.284	3.49e-05	0.0	4.91e-05	0.0	0.0	0.0	0.0	0.0
62	26.574	0.038	0.284	0.03	7.46e-06	4.13e-05	0.0	4.18e-05	0.0	0.0	0.0
63	26.634	0.038	0.284	2.97e-04	0.0	0.04	1.03e-05	6.25e-04	0.0	0.0	0.0
64	26.724	0.037	0.284	2.24e-04	0.0	1.24e-03	0.0	3.79e-04	0.0	0.0	0.0
65	26.880	0.037	0.284	8.28e-03	2.11e-06	2.65e-06	0.0	2.15e-05	0.0	0.0	0.0
66	26.973	0.037	0.284	0.0	0.0	0.14	3.47e-05	0.0	0.0	0.0	0.0
67	27.966	0.036	0.282	0.47	1.19e-04	5.44	1.39e-03	0.71	1.81e-04	0.0	0.0
68	30.374	0.033	0.278	0.0	0.0	1.44	3.66e-04	2.06e-06	0.0	0.0	0.0
69	31.420	0.032	0.277	1.94	4.93e-04	4.30	1.09e-03	2.36	6.02e-04	0.0	0.0
70	34.208	0.029	0.274	3.87	9.84e-04	0.01	3.15e-06	0.38	9.66e-05	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.906e+05			
In percentuale				99.87		99.96		99.41			





i) Criteri di verifica agli stati limite indagati

Per tutti gli elementi strutturali primari e secondari, gli elementi non strutturali e gli impianti si verifica che il valore di ciascuna domanda di progetto, definito dalla tabella 7.3.III per ciascuno degli stati limite richiesti, sia inferiore al corrispondente valore della capacità di progetto.

Le verifiche degli elementi strutturali primari (ST) si eseguono, come sintetizzato nella tabella 7.3.III, in dipendenza della Classe d'Uso (CU):

- nel caso di comportamento strutturale non dissipativo, in termini di rigidezza (RIG) e di resistenza (RES), senza applicare le regole specifiche dei dettagli costruttivi e della progettazione in capacità;
- nel caso di comportamento strutturale dissipativo, in termini di rigidezza (RIG), di resistenza (RES) e di duttilità (DUT) (quando richiesto), applicando le regole specifiche dei dettagli costruttivi e della progettazione in capacità.

Le verifiche degli elementi strutturali secondari si effettuano solo in termini di duttilità.

Le verifiche degli elementi non strutturali (NS) e degli impianti (IM) si effettuano in termini di funzionamento (FUN) e stabilità (STA), come sintetizzato nella tabella 7.3.III, in dipendenza della Classe d'Uso (CU).

Tab. 7.3.III – Stati limite di elementi strutturali primari, elementi non strutturali e impianti

STATI LIMITE		CU I	CU II			CU III e IV		
		ST	ST	NS	IM	ST	NS	IM ^(*)
SLE	SLO					RIG		FUN
	SLD	RIG	RIG			RES		
SLU	SLV	RES	RES	STA	STA	RES	STA	STA
	SLC		DUT ^(*)			DUT ^(*)		

^(*) Per le sole CU III e IV, nella categoria Impianti ricadono anche gli arredi fissi.

^(*) Nei casi esplicitamente indicati dalle presenti norme.

Verifiche allo SLU

PROGETTAZIONE AGLI STATI LIMITE ULTIMI CALCESTRUZZO

In tutte le sezioni del modello si è verificato il rispetto dei seguenti stati limite ai sensi del §4.1.2.3.1:

- resistenza,
- duttilità.

Per quanto concerne lo stato limite di resistenza si è verificato in tutte le sezioni il rispetto dei seguenti stati limite (§4.1.2.3.2):

- resistenza flessionale in presenza e in assenza di sforzo assiale,
- resistenza a taglio e punzonamento,
- resistenza a torsione,
- resistenza di elementi tozzi,
- resistenza a fatica,
- stabilità di elementi snelli.

Ai sensi del § 4.1.2.3.3 si verifica, essendo richiesto al § 7.4 delle NTC2018 per costruzioni in zona sismica, il rispetto del seguente stato limite:

- duttilità flessionale in presenza e in assenza di sforzo assiale.

Nel caso in esame viene considerato un comportamento strutturale non dissipativo, la capacità delle membrane è valutata in accordo con le regole di cui al § 4.1, senza nessun requisito aggiuntivo, a condizione che in nessuna sezione si superi il momento resistente massimo in campo sostanzialmente elastico, come definito al § 4.1.2.3.4.2. Per i nodi trave-pilastro di strutture a comportamento non dissipativo vengono applicate le regole di progetto relative alla CD "B" contenute nel § 7.4.4.3. Per le strutture prefabbricate a comportamento non dissipativo si applicano anche le regole generali contenute nel § 7.4.5.

Nel caso in esame viene considerato un comportamento strutturale dissipativo, la struttura è concepita e dimensionata in modo tale che, sotto l'azione sismica relativa allo SLV, essa dia luogo alla formazione di un meccanismo dissipativo stabile fino allo SLC, nel quale la dissipazione sia limitata alle zone a tal fine previste. La capacità delle membrane e dei collegamenti è valutata in accordo con le regole di cui dal § 7.1 al § 7.3, integrate dalle regole di progettazione e di dettaglio fornite dal § 7.4.4 al § 7.4.6.

I valori di verifica sono riportati nel dettaglio al capitolo § j.3. e nei risultati tabellari riportati nella seguente relazione di calcolo al capitolo 2.

PROGETTAZIONE AGLI STATI LIMITE ULTIMI ACCIAIO

La resistenza di progetto delle membrane R_d si pone nella forma:

$$R_d = \frac{R_k}{\gamma_M} \quad [4.2.3]$$

dove:

R_k è il valore caratteristico della resistenza (trazione, compressione, flessione, taglio e torsione) della membratura, determinato dai valori caratteristici delle resistenze dei materiali f_{yk} e dalle caratteristiche geometriche degli elementi strutturali, dipendenti dalla classe della sezione.

γ_M è il fattore parziale globale relativo al modello di resistenza adottato.

Nel caso in cui si abbiano elementi con sezioni di classe 4 si fa riferimento alle caratteristiche geometriche "efficaci", area efficace A_{eff} , modulo di resistenza efficace W_{eff} , modulo di inerzia efficace J_{eff} , valutati seguendo il procedimento indicato in UNI EN 1993-1-5. Nel caso di elementi strutturali formati a freddo e lamiera sottili, per valutare le caratteristiche "efficaci" si può fare riferimento a quanto indicato in UNI EN 1993-1-3. In alternativa al metodo delle caratteristiche geometriche efficaci si potrà utilizzare il metodo delle tensioni ridotte, indicato in UNI EN 1993-1-5.

Verifiche allo SLE:

CALCESTRUZZO

Ai sensi del § 4.1.2.2.1 si verifica il rispetto dei seguenti stati limite ritenuti significativi per il progetto:
deformazione,
vibrazione,
fessurazione,
tensioni di esercizio,
fatica per quanto riguarda eventuali danni che possano compromettere la durabilità.

Verifiche allo SLD e SLO:

La condizione in termini di rigidezza (RIG) sulla struttura si ritiene soddisfatta qualora la conseguente deformazione degli elementi strutturali non produca sugli elementi non strutturali danni tali da rendere la costruzione temporaneamente inagibile.

Nel caso delle costruzioni civili e industriali, qualora la temporanea inagibilità sia dovuta a spostamenti di interpiano eccessivi, questa condizione si può ritenere soddisfatta quando gli spostamenti di interpiano ottenuti dall'analisi in presenza dell'azione sismica di progetto corrispondente allo SL e alla CU considerati siano inferiori ai limiti indicati nel seguito.

Per le CU I e II ci si riferisce allo SLD (v. Tab. 7.3.III) e deve essere:

a) per tamponature collegate rigidamente alla struttura, che interferiscono con la deformabilità della stessa:

$$qd_r \leq 0,0050 \cdot h \quad \text{per tamponature fragili} \quad [7.3.11a]$$

$$qd_r \leq 0,0075 \cdot h \quad \text{per tamponature duttili} \quad [7.3.11b]$$

b) per tamponature progettate in modo da non subire danni a seguito di spostamenti d'interpiano d_{tp} , per effetto della loro deformabilità intrinseca oppure dei collegamenti alla struttura:

$$qd_r \leq d_{tp} \leq 0,0100 \cdot h \quad [7.3.12]$$

c) per costruzioni con struttura portante di muratura ordinaria

$$qd_r \leq 0,0020 \cdot h \quad [7.3.13]$$

d) per costruzioni con struttura portante di muratura armata

$$qd_r \leq 0,0030 \cdot h \quad [7.3.14]$$

e) per costruzioni con struttura portante di muratura confinata

$$qd_r < 0,0025 \cdot h \quad [7.3.15]$$

dove:

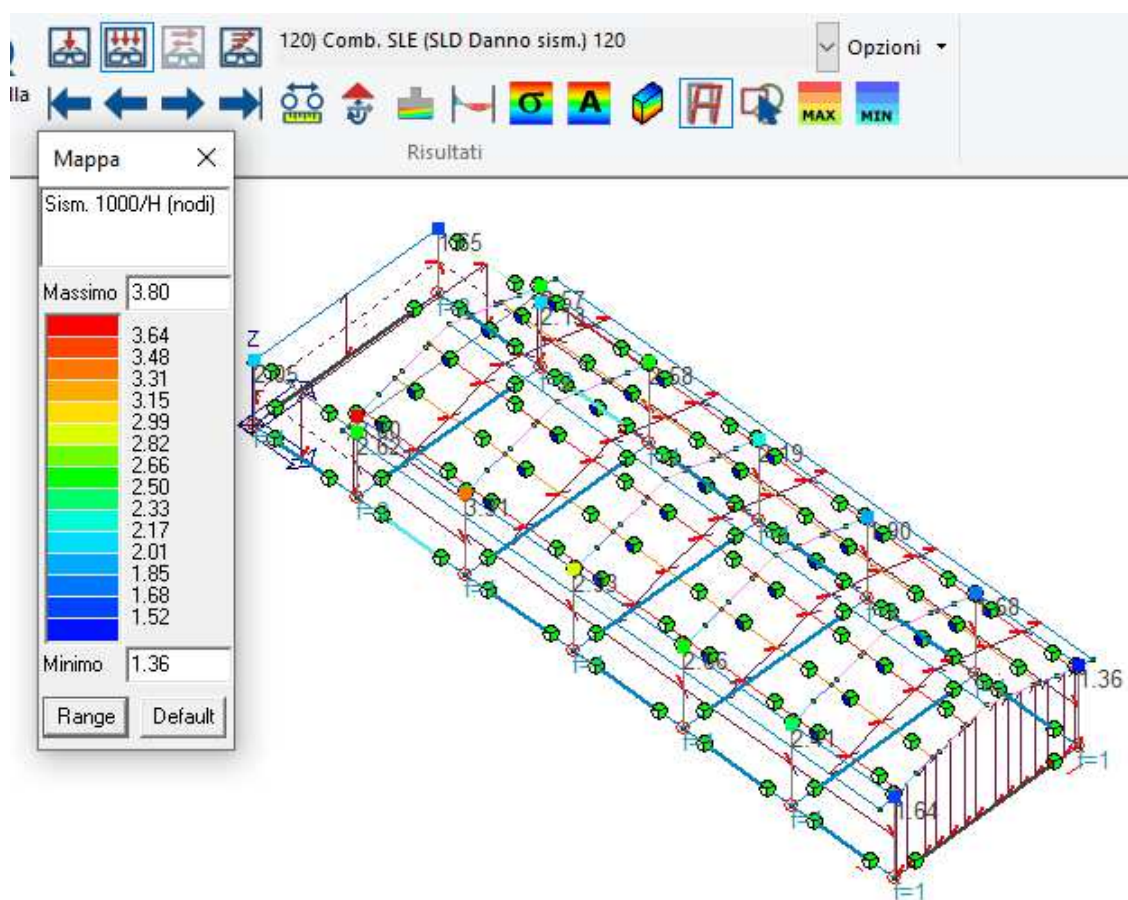
d_r è lo spostamento di interpiano, cioè la differenza tra gli spostamenti del solaio superiore e del solaio inferiore, calcolati, nel caso di analisi lineare, secondo il § 7.3.3.3 o, nel caso di analisi non lineare, secondo il § 7.3.4, sul modello di calcolo non comprensivo delle tamponature,

h è l'altezza del piano.

Per le CU III e IV ci si riferisce allo SLO (v. Tab. 7.3.III) e gli spostamenti d'interpiano devono essere inferiori ai 2/3 dei limiti in precedenza indicati.

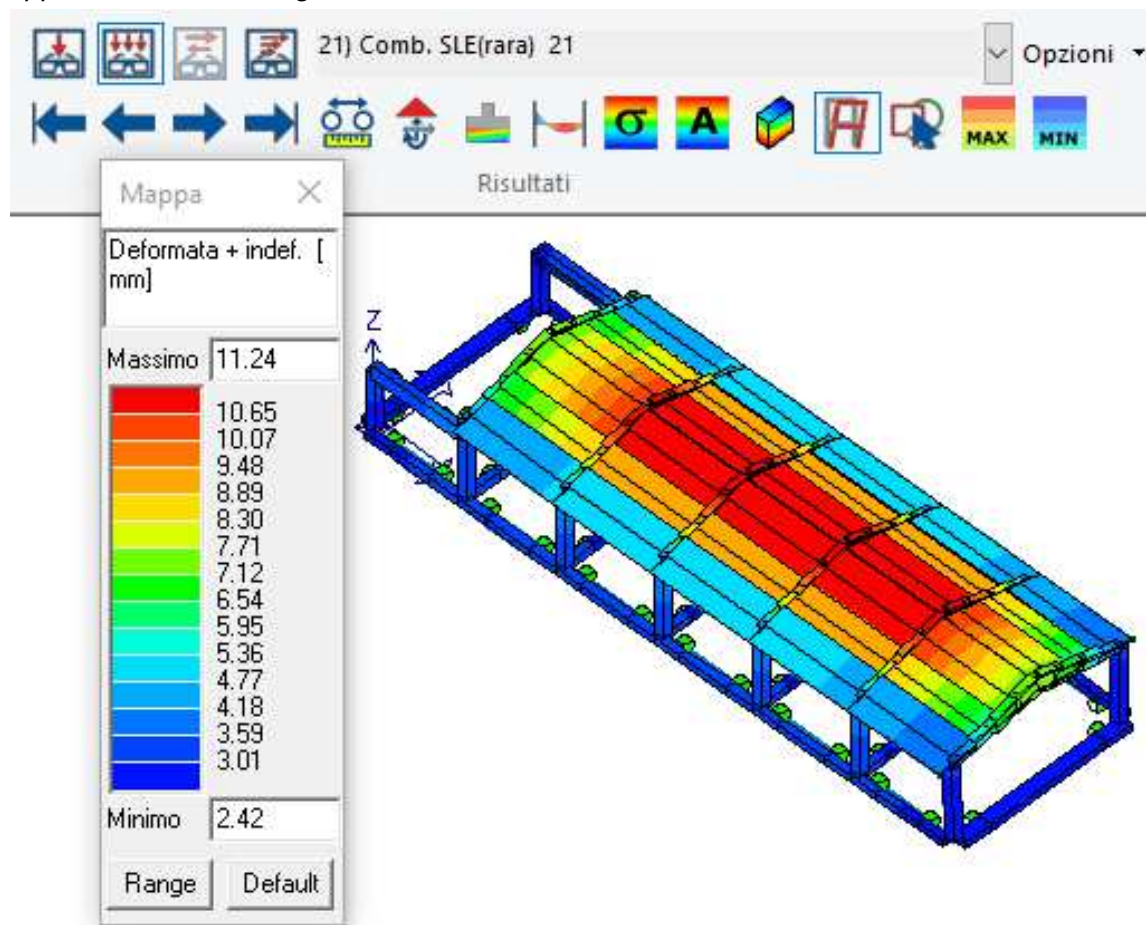
In caso di coesistenza di diversi tipi di tamponamento o struttura portante nel medesimo piano della costruzione, deve essere assunto il limite di spostamento più restrittivo. Qualora gli spostamenti di interpiano siano superiori a 0,005 h (caso b), le verifiche della capacità di spostamento degli elementi non strutturali vanno estese a tutte le tamponature, alle tramezzature interne ed agli impianti.

VERIFICHE SLD



j) *Rappresentazione delle configurazioni deformate e delle caratteristiche di sollecitazione delle strutture significative*

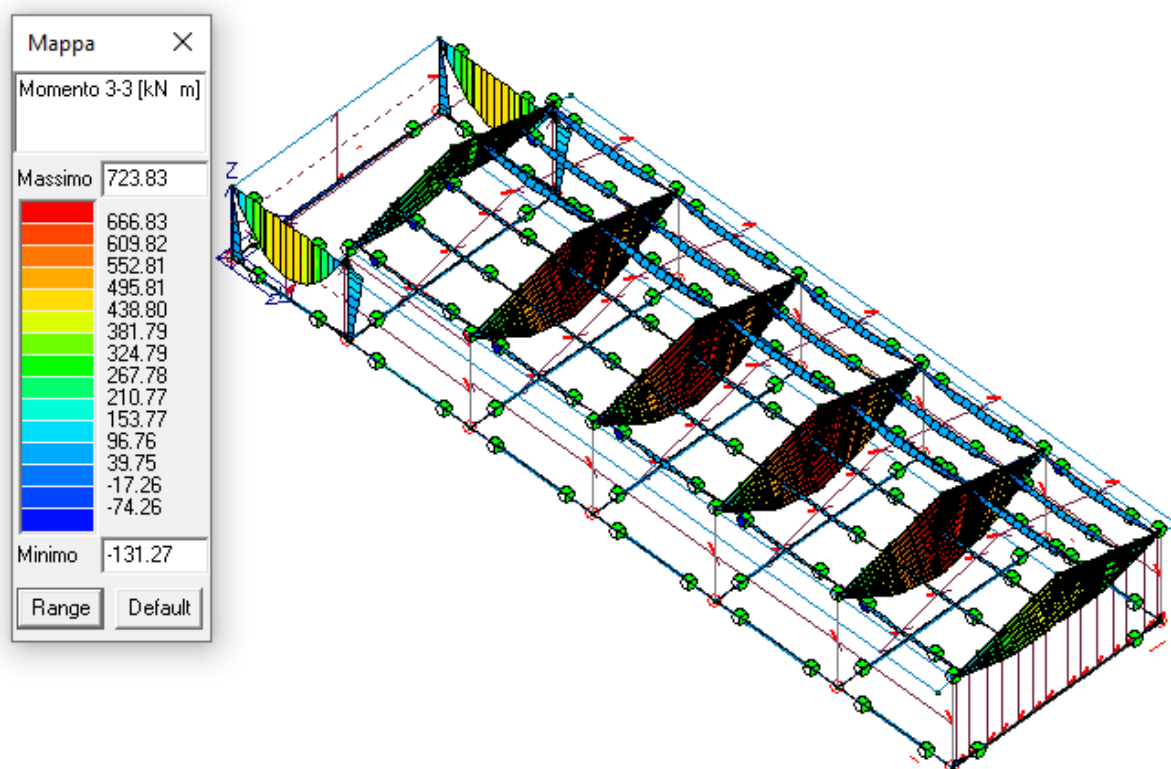
i.1. Rappresentazione configurazioni deformate



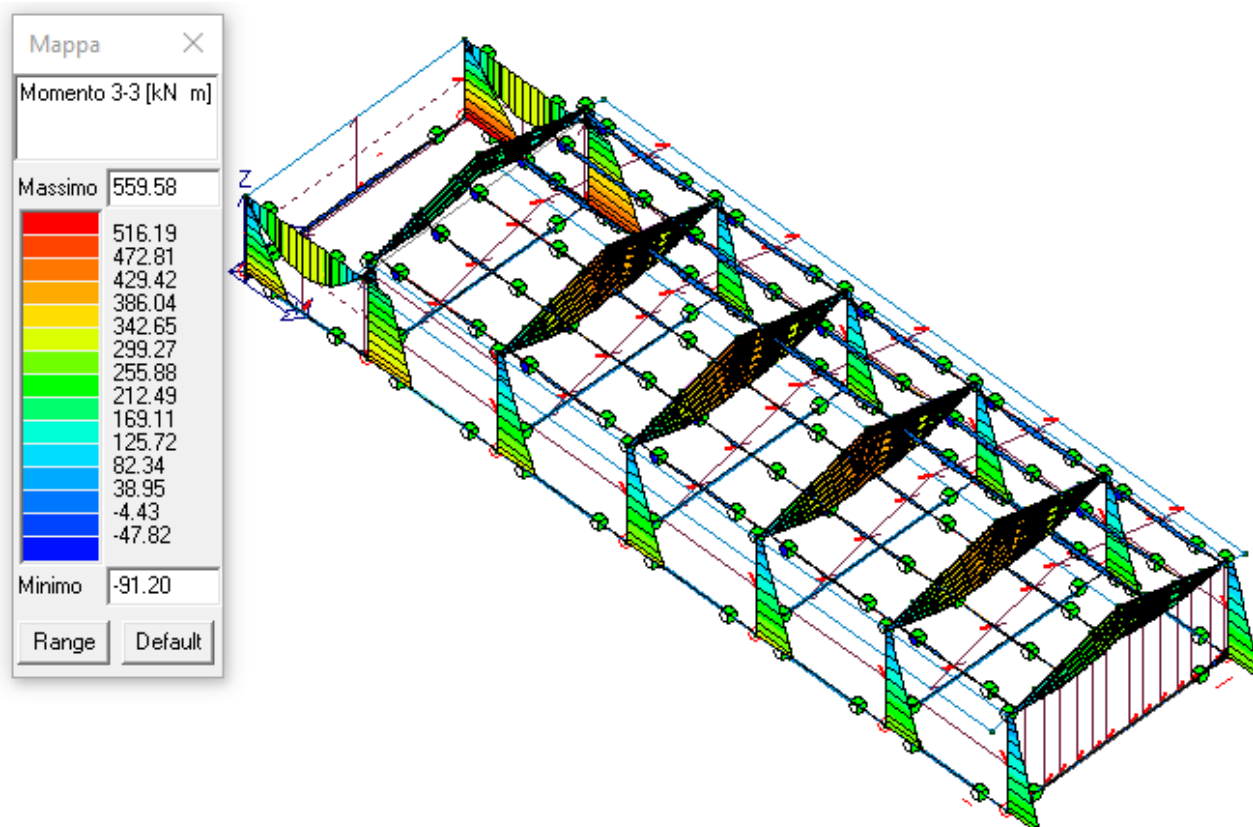
deformata

IN COMBINAZIONE Comb. SLE rara 18

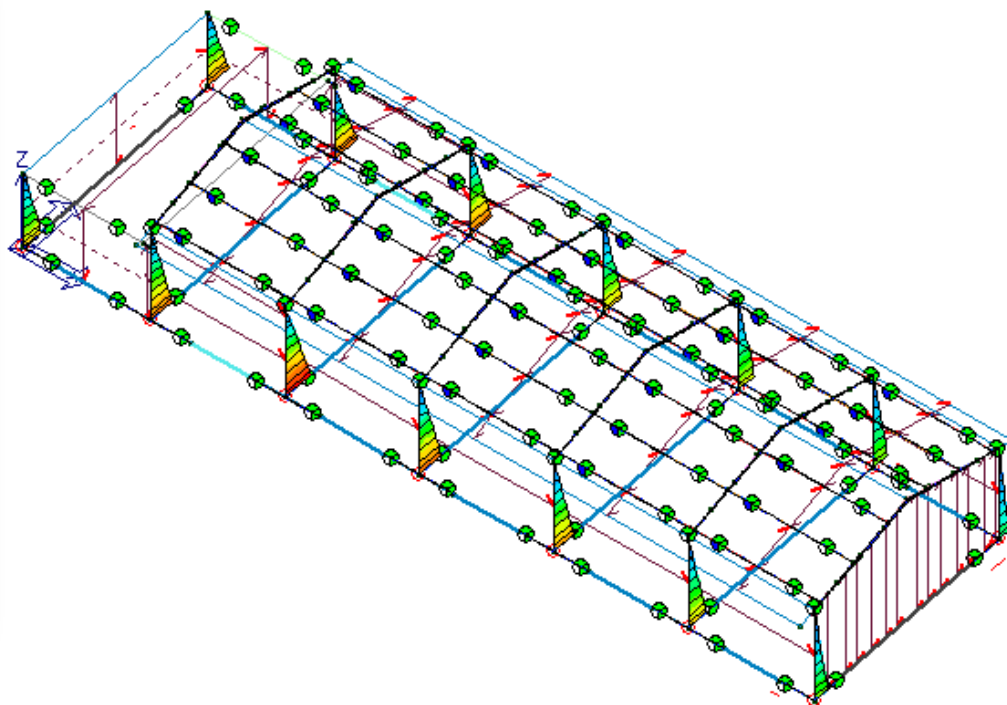
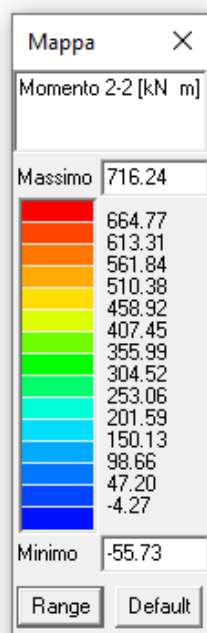
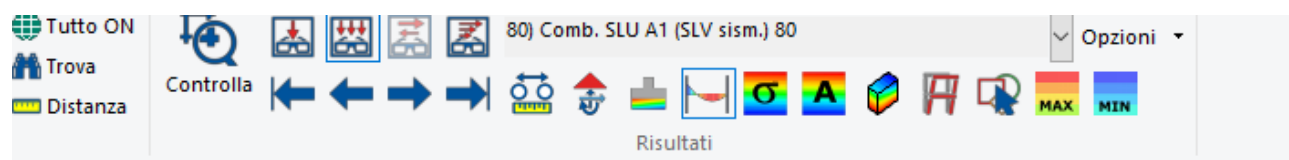
i.2. Rappresentazione caratteristiche di sollecitazione



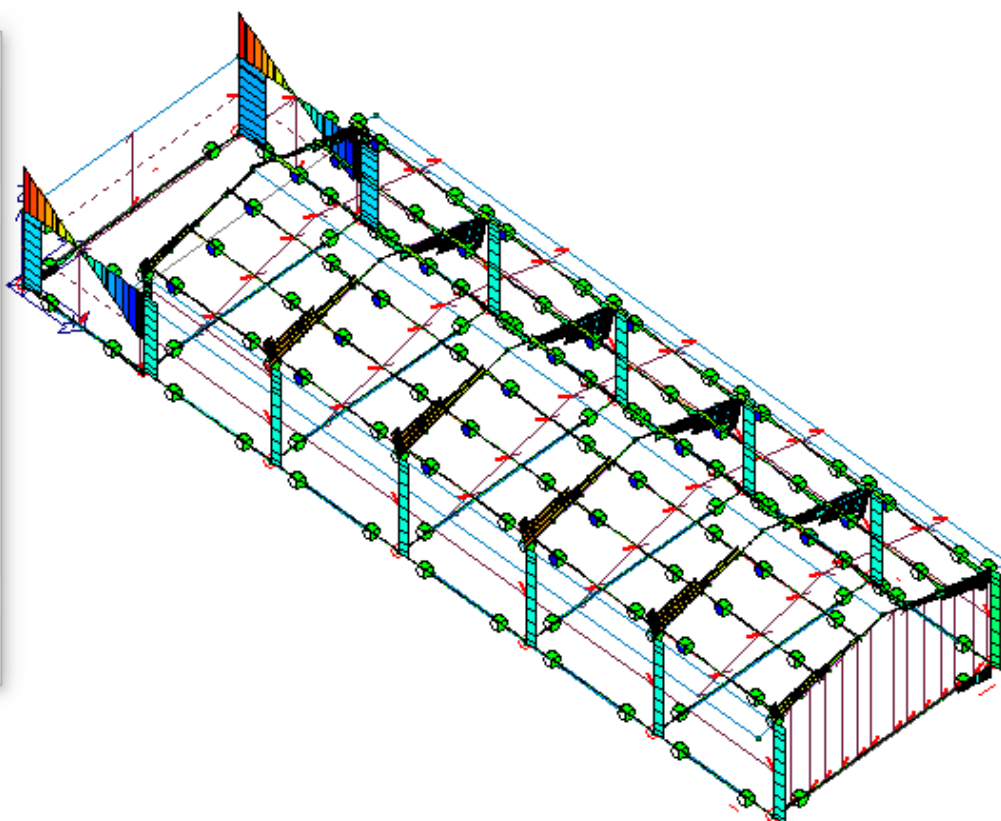
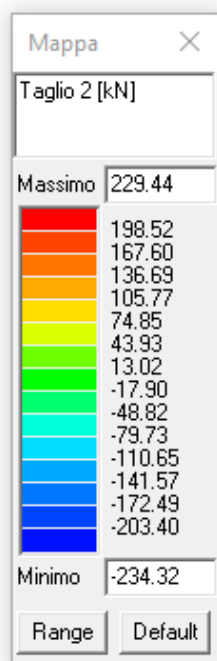
M33: momento flettente
IN COMBINAZIONE Comb. SLU statica



M33: momento flettente
IN COMBINAZIONE Comb. SLV sismica
Pagina 30 di 225

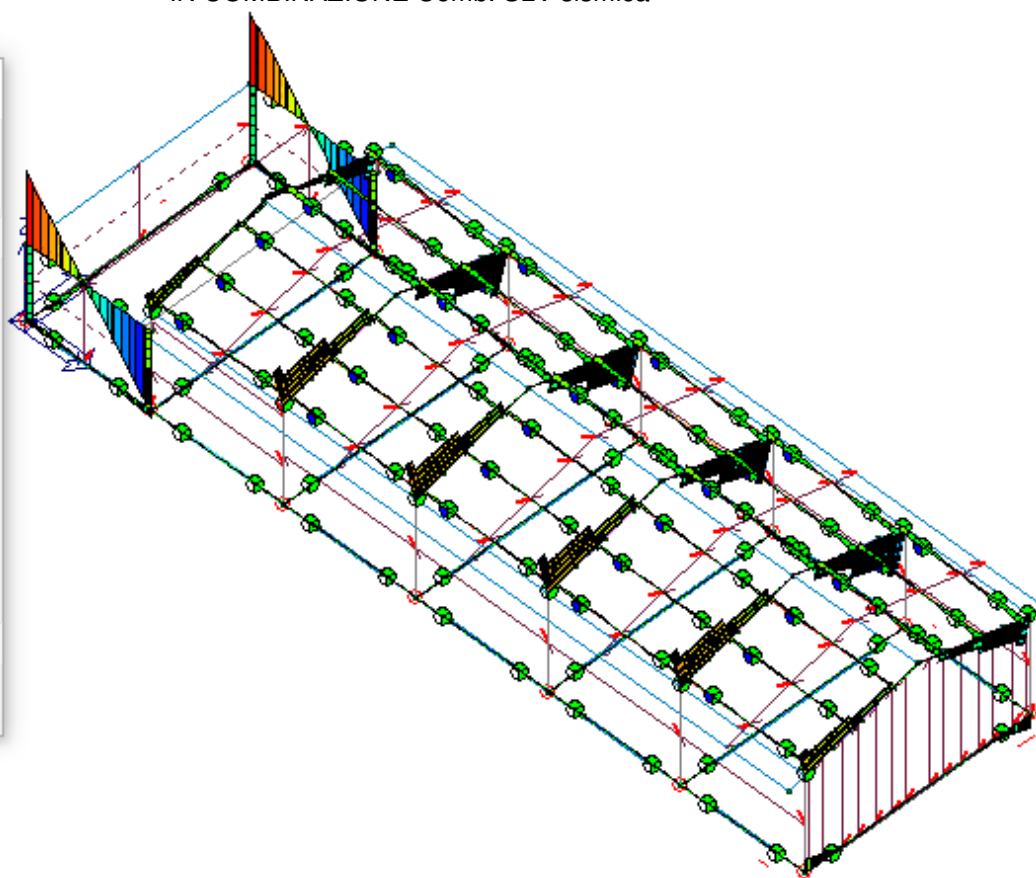
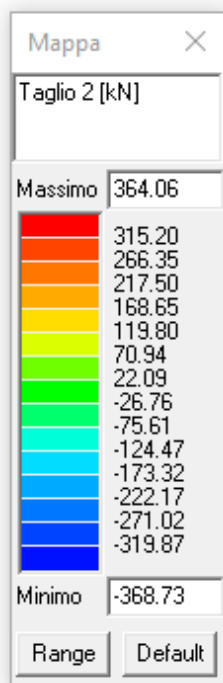


M22: momento flettente
IN COMBINAZIONE Comb. SLV sismica



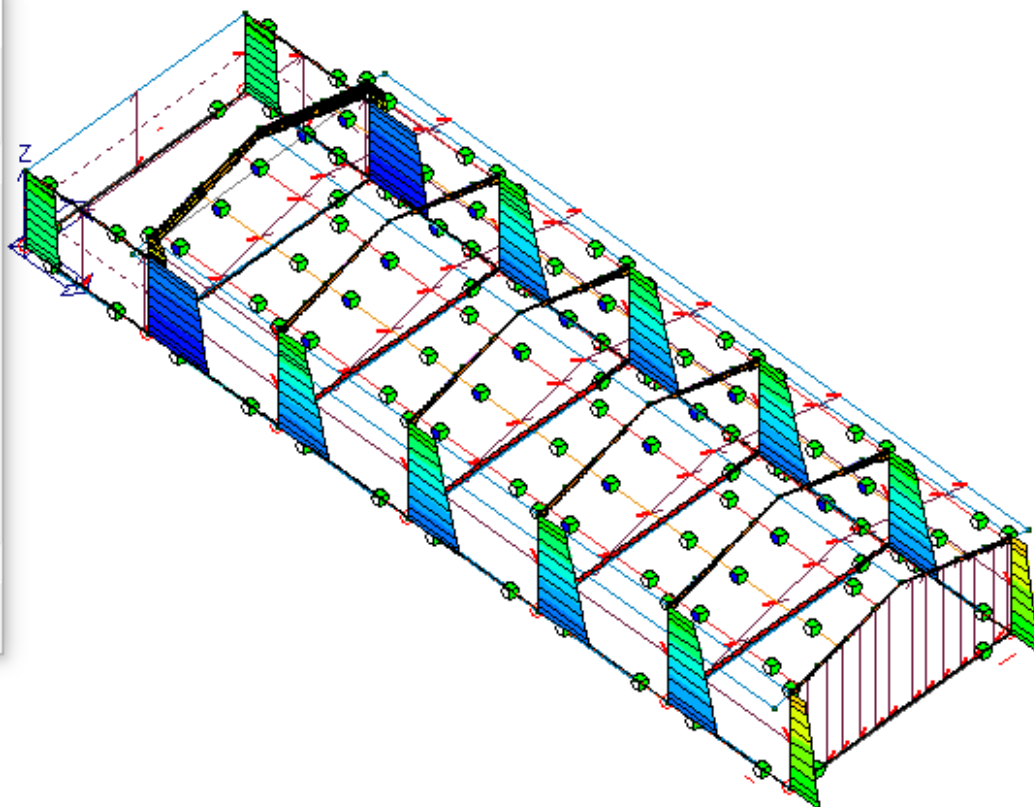
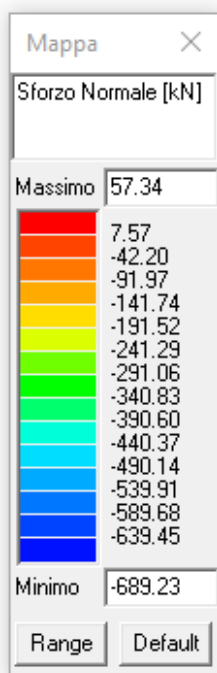
T2: taglio

IN COMBINAZIONE Comb. SLV sismica



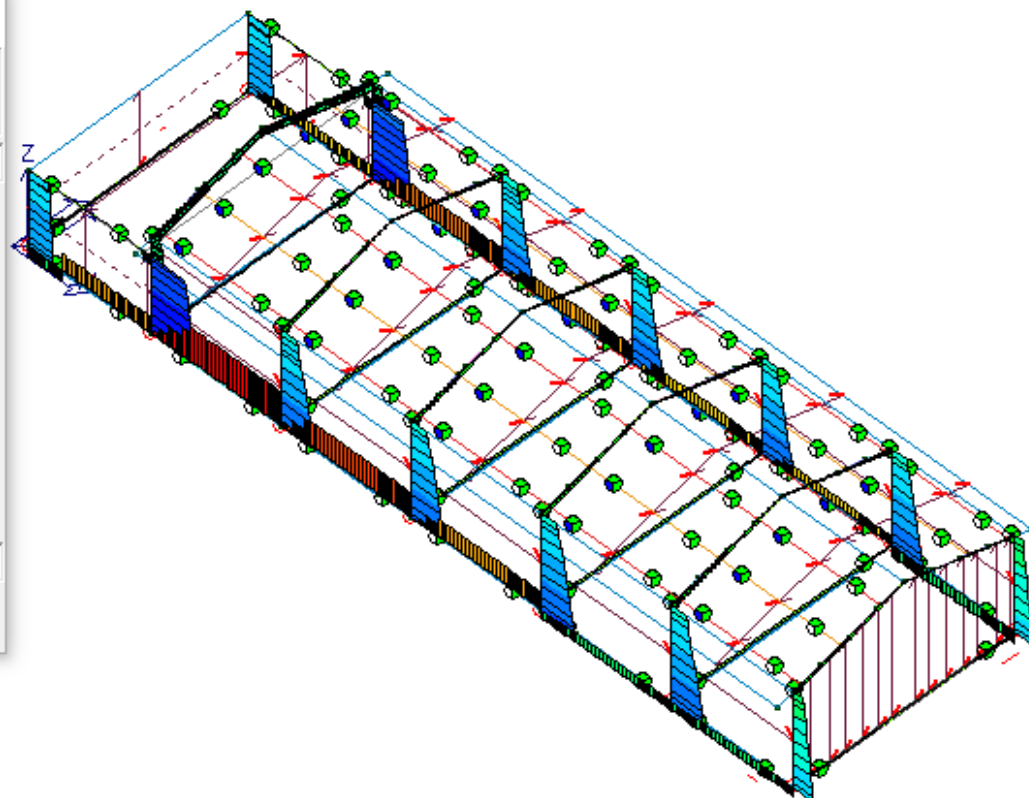
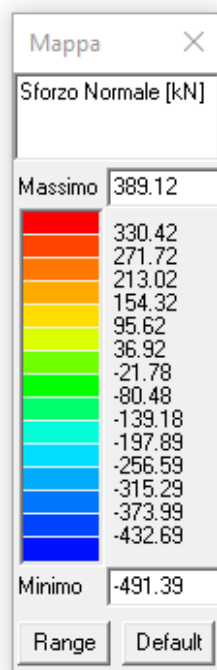
T2: taglio

IN COMBINAZIONE Comb. SLU statica



N: sforzo normale

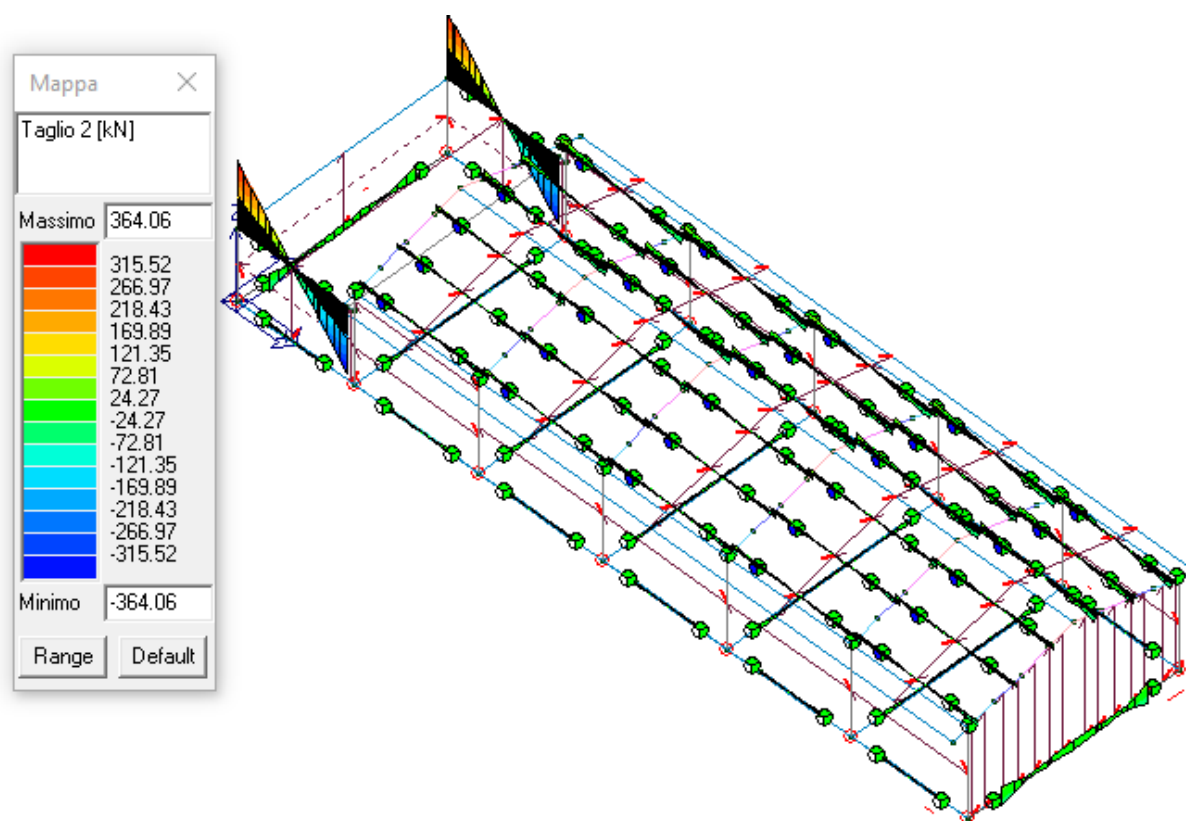
IN COMBINAZIONE Comb. SLU statica



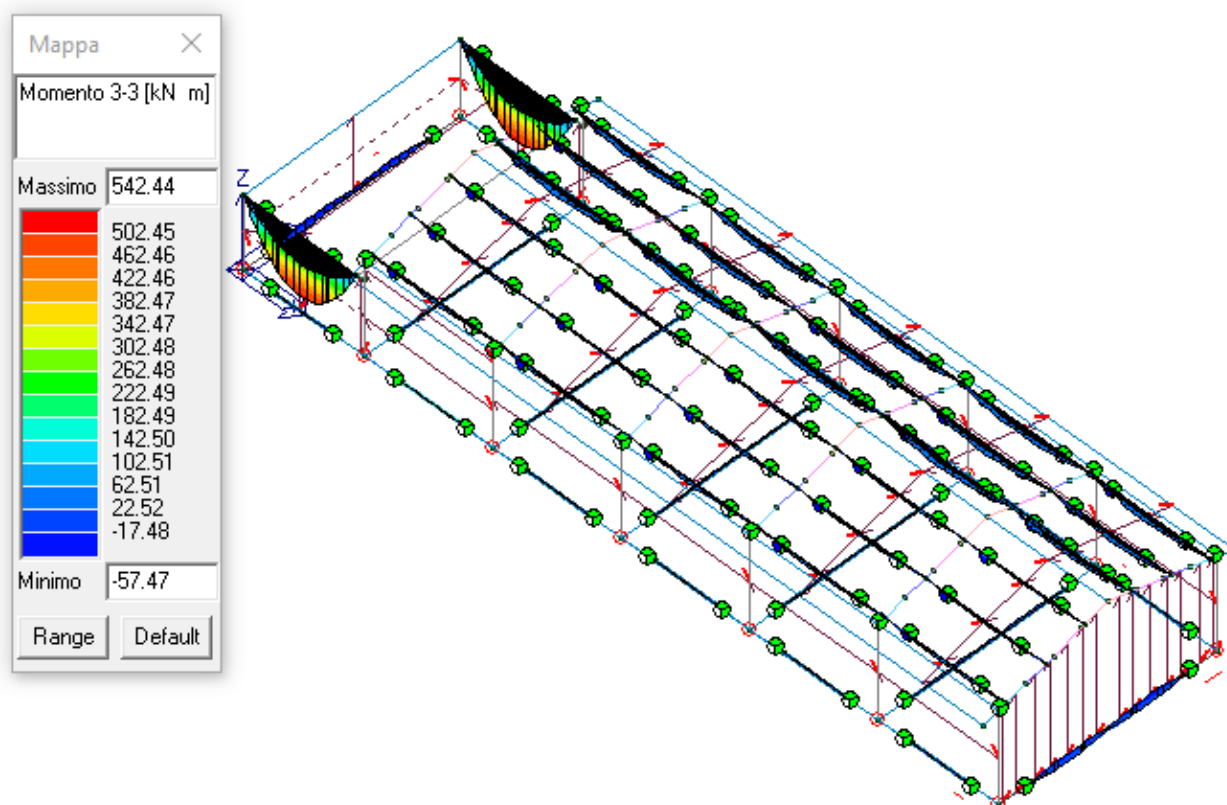
N: sforzo normale

IN COMBINAZIONE Comb. SLV sismica

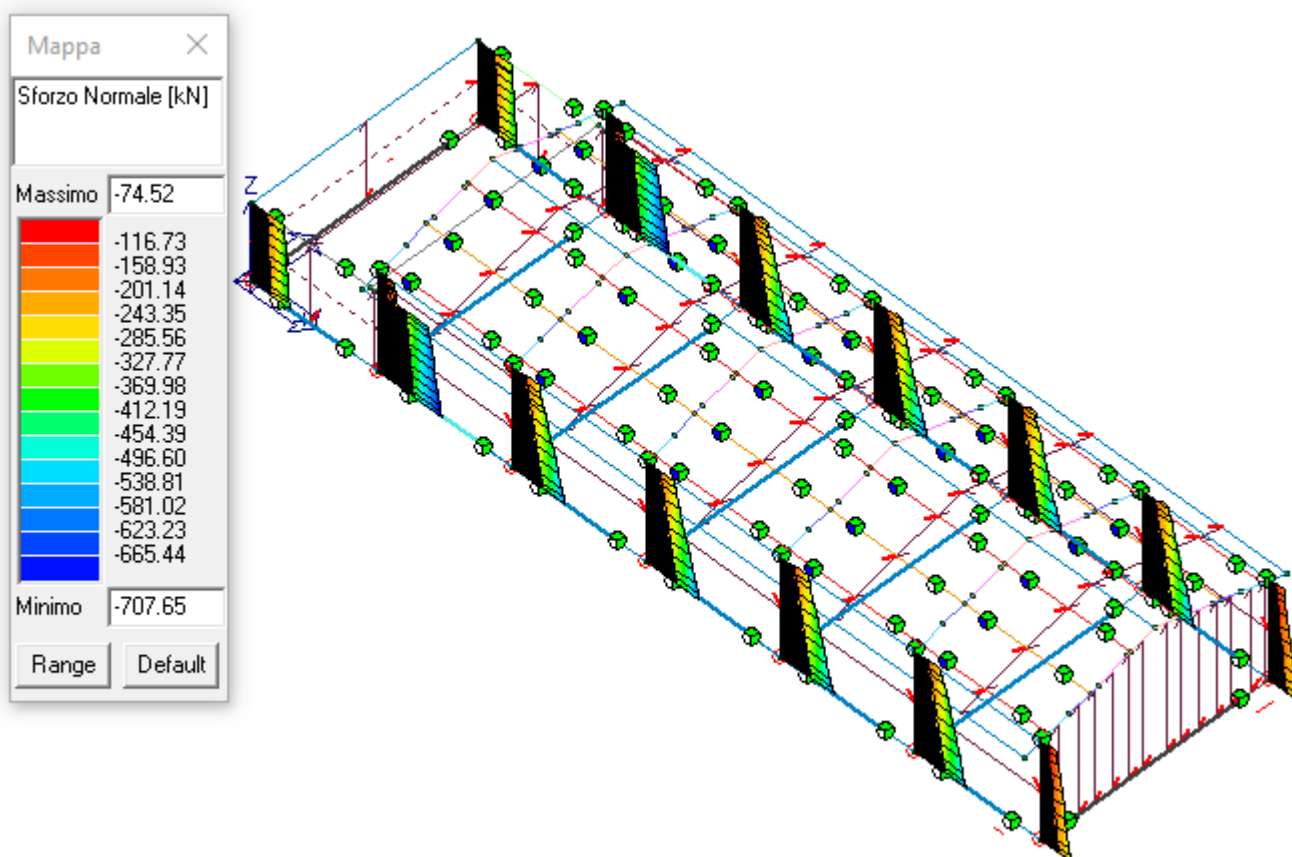
Inviluppo delle sollecitazioni maggiormente significative



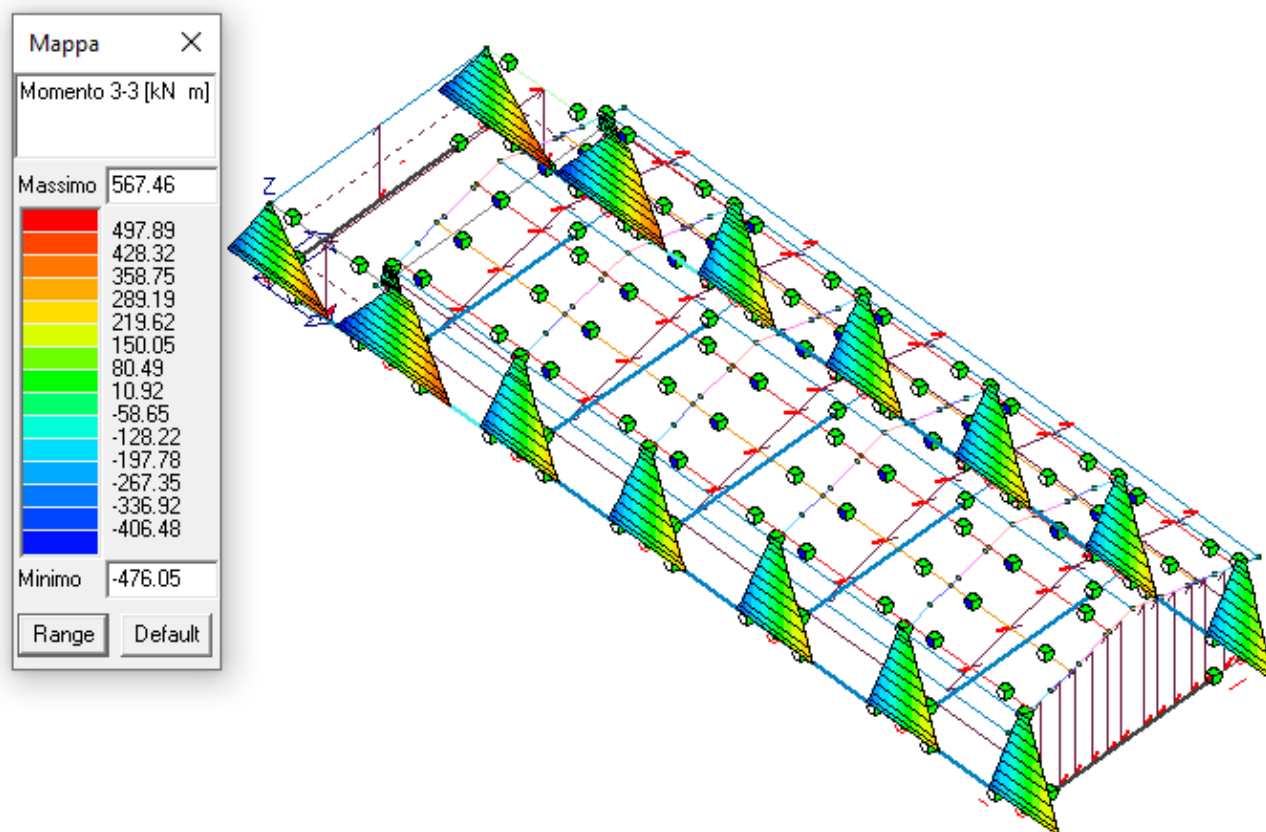
Inviluppo travi in c.a. in elevazione e fondazione– Taglio 2



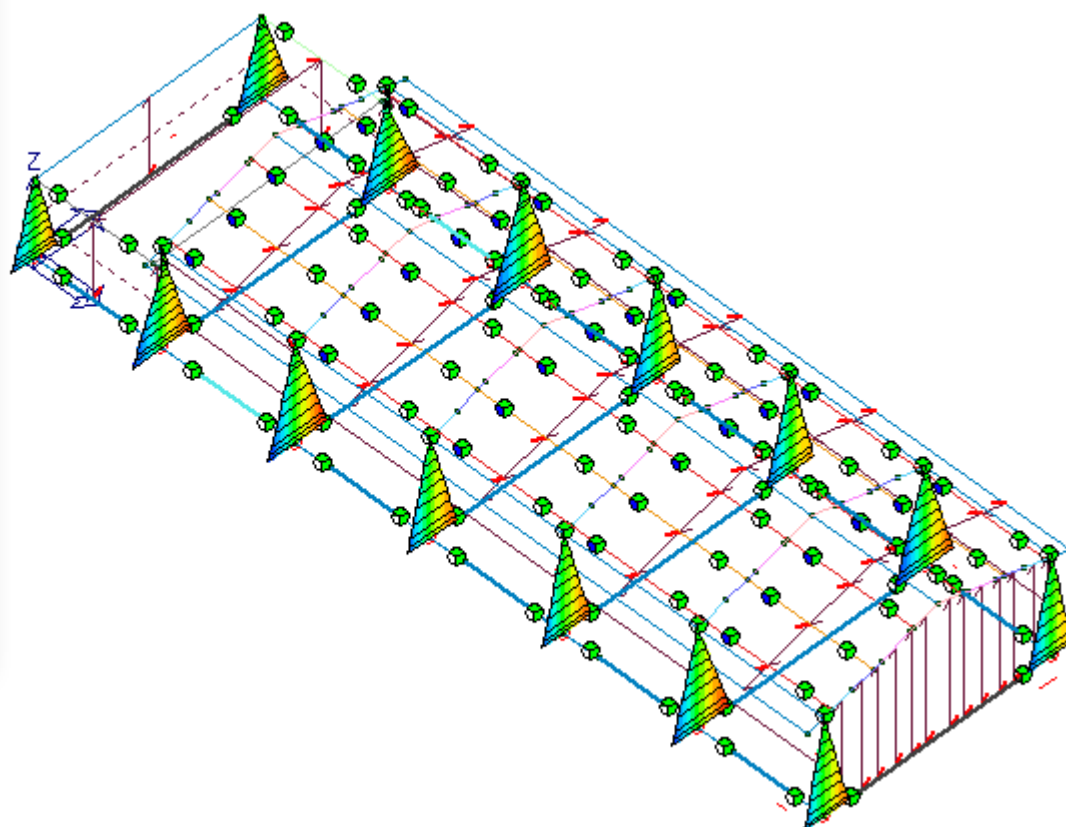
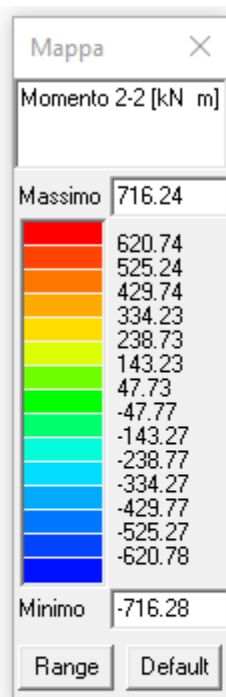
Inviluppo travi in c.a. in elevazione e fondazione– Momento 3-3



Involuppo pilastri in c.a. – Sforzo Normale



Involuppo pilastri in c.a. – Momento 3-3



Involuppo pilastri in c.a. – Momento 2-2

Reazioni vincolari

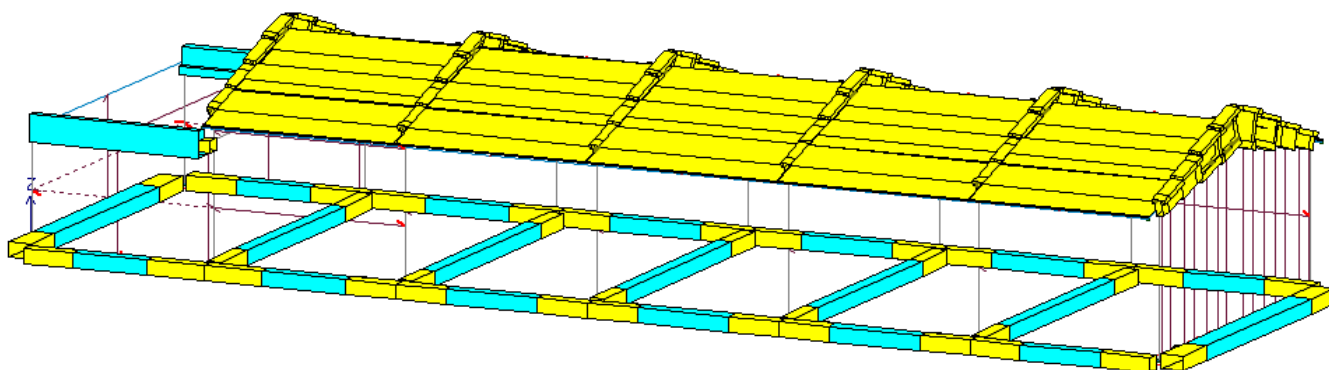
Nel presente modello di calcolo non sono presenti reazioni vincolari in quanto lo stesso è stato modellato completo di fondazioni.

i.3. Verifiche di sicurezza

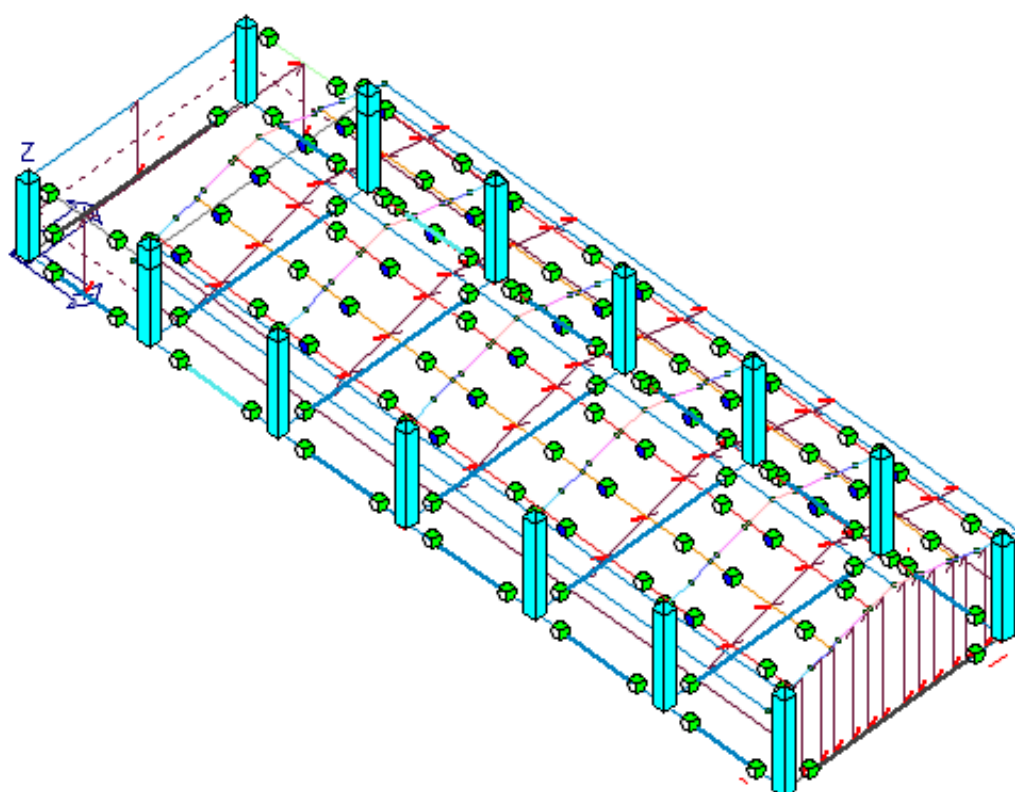
OSSERVAZIONE: Le verifiche di resistenza di tutti i materiali presenti nel progetto sono realizzate considerando gli involuipi delle sollecitazioni, ovvero considerando nello specifico gli involuipi delle sollecitazioni statiche e sismiche. Gli involuipi sono stati indicati nei precedenti capitoli, così come sono state presentate in forma grafica le sollecitazioni in condizioni statiche e sismiche separatamente.

Verifiche Elementi in CIs

di seguito si riportano le verifiche degli elementi in c.a. ad armatura lenta (sia gettati in opera che prefabbricati), mentre si rimanda alla relazione di calcolo per la verifica degli elementi precompressi.



STATO DI PROGETTO TRAVI IN C.A.



STATO DI PROGETTO PILASTRI IN C.A.

Progetto

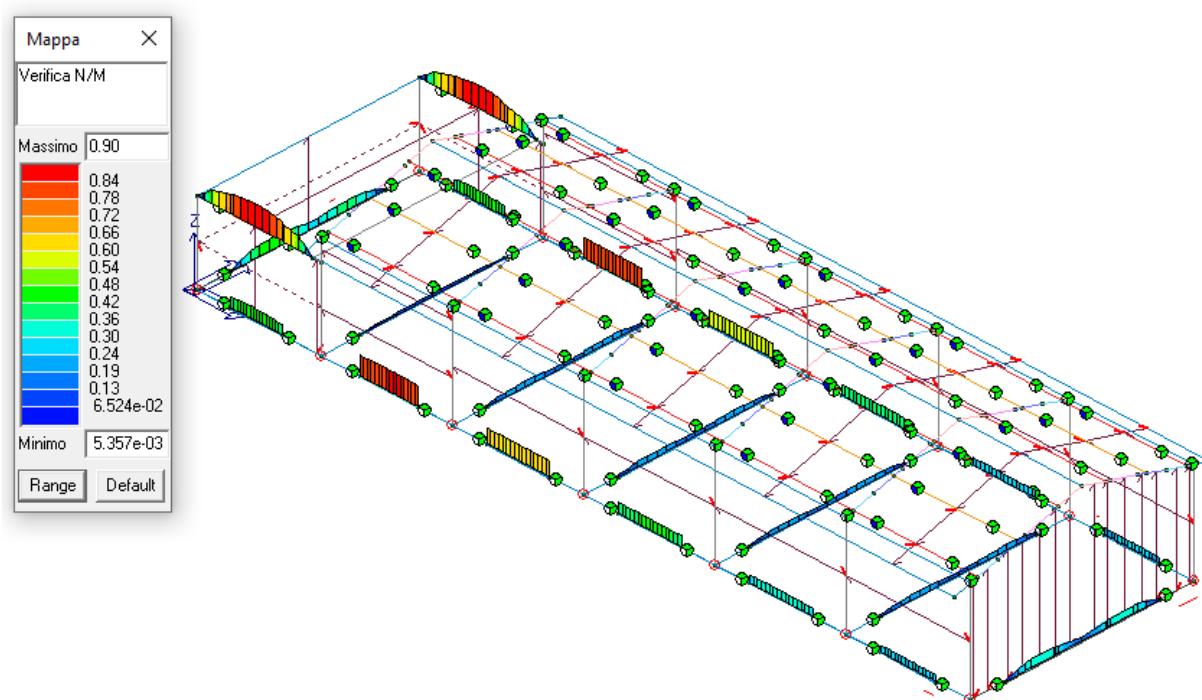
Il programma consente per mezzo di mappe, diagrammi e tabelle, l'esattivo controllo dello stato di progetto della struttura secondo i parametri di verifica esplicitati in relazione di calcolo e riportati nel seguito in estrema sintesi in calce ai principali risultati in forma grafica:

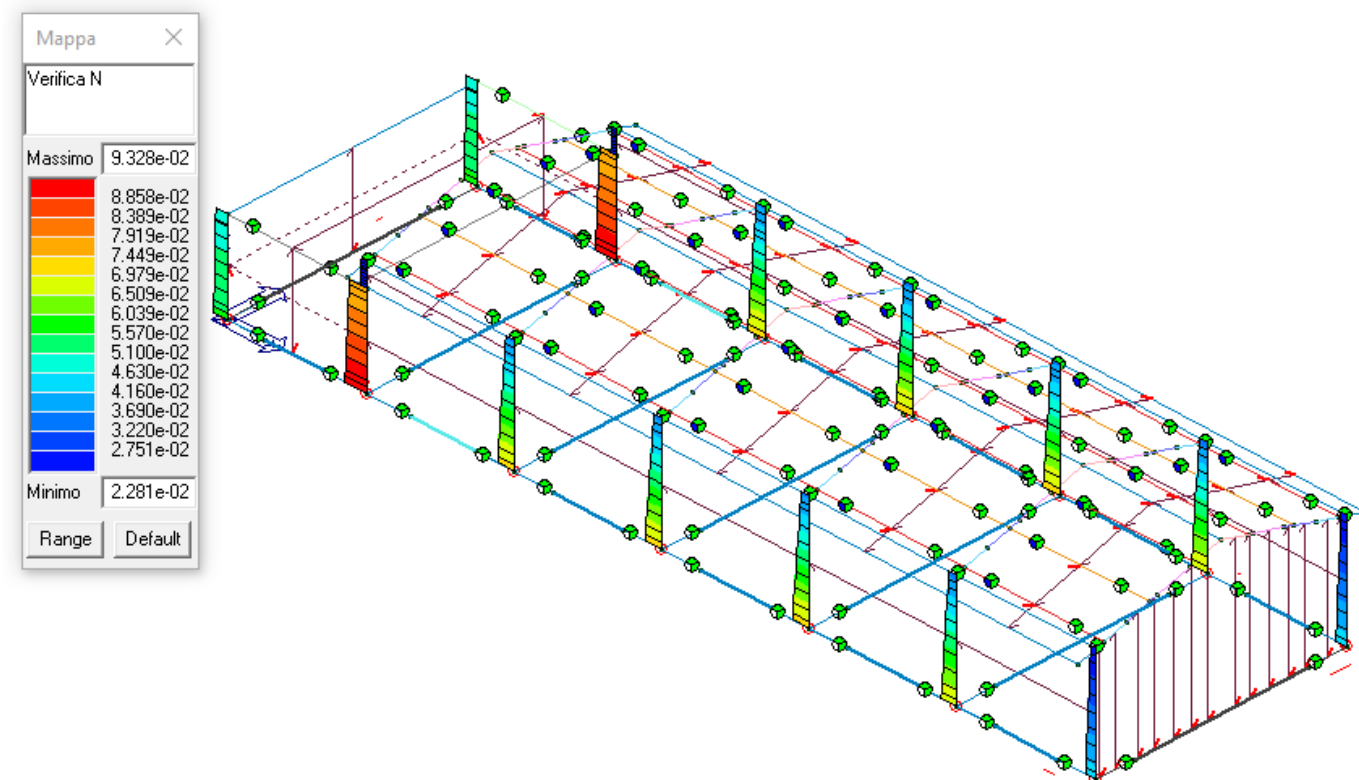
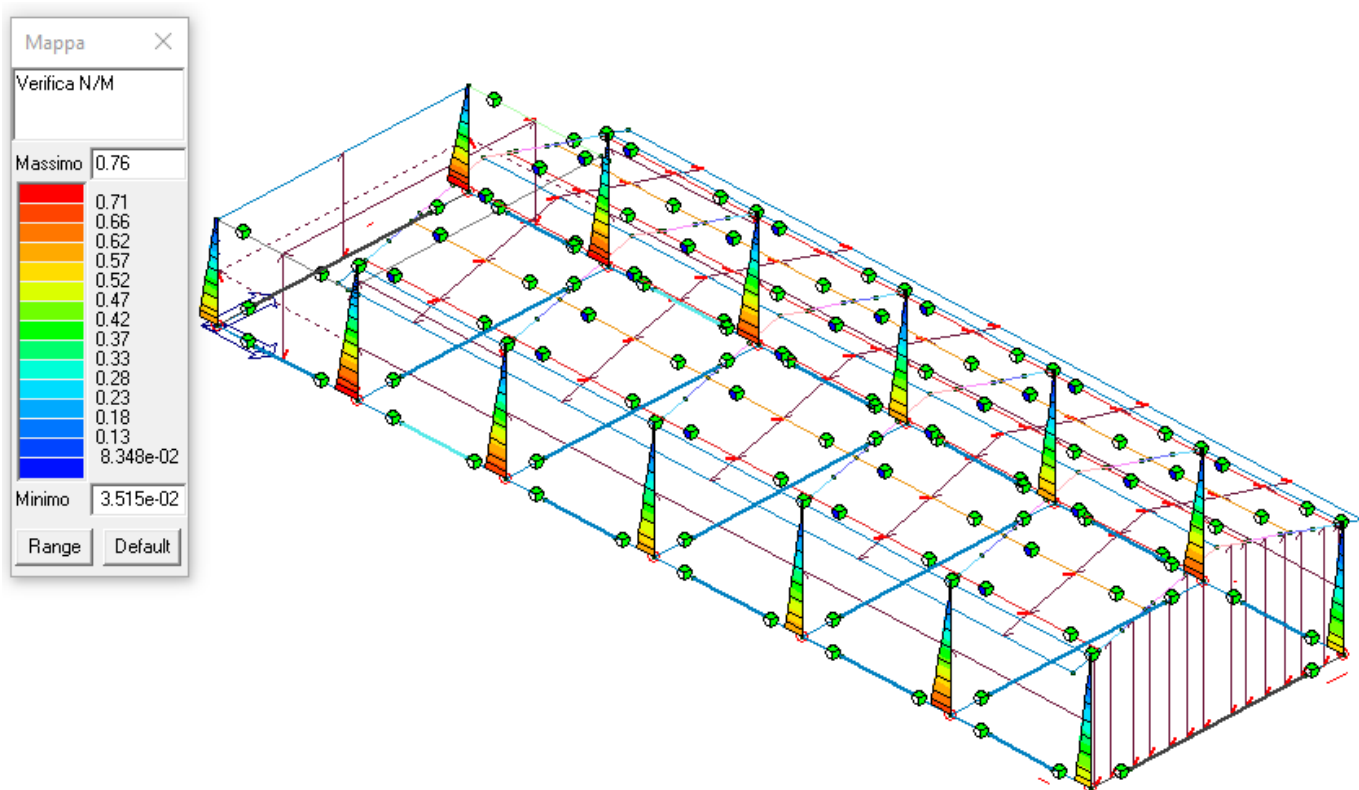
Nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite (**S.L.**) vengono riportati: il rapporto x/d , le verifiche per sollecitazioni proporzionali e la verifica per compressione media con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

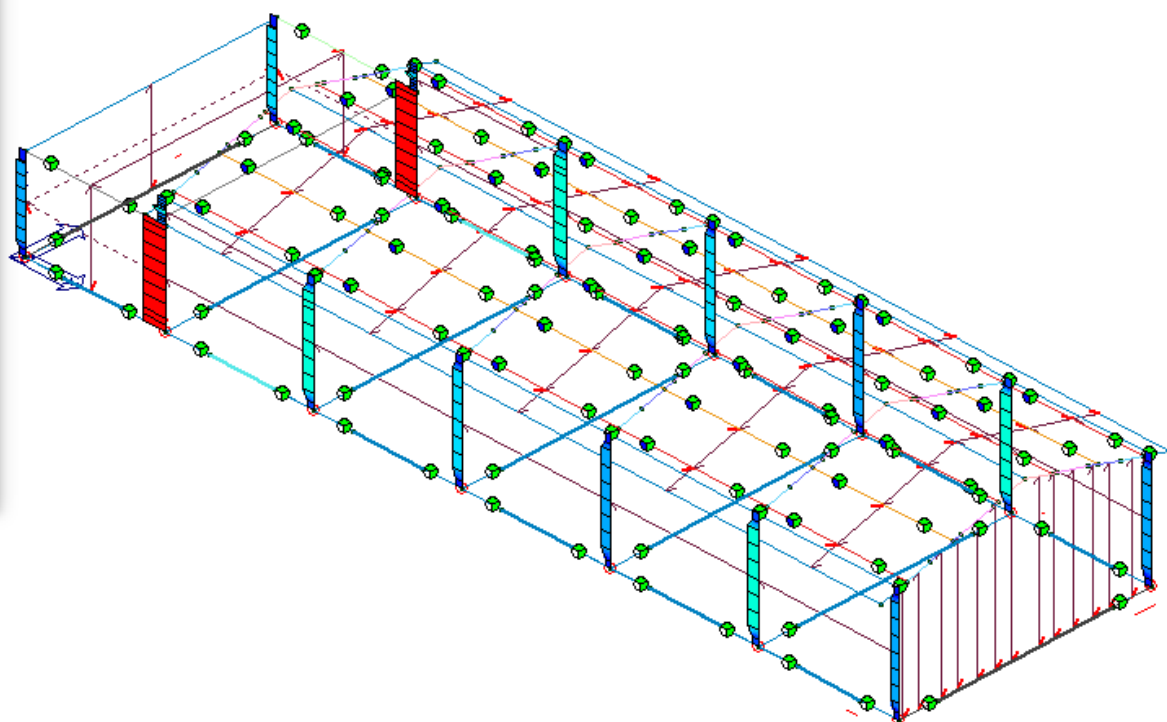
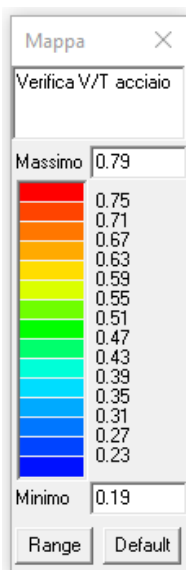
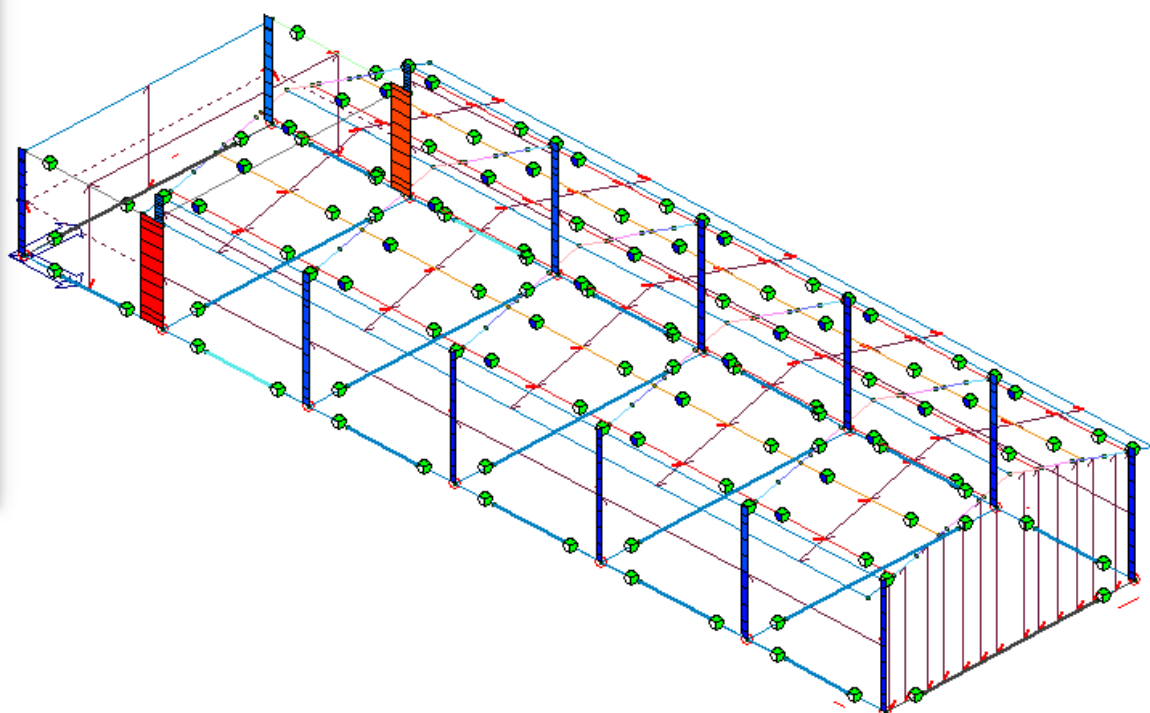
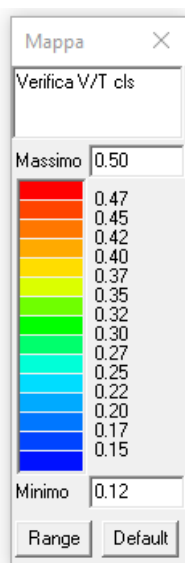
Nel caso in cui la struttura abbia comportamento dissipativo e sia prevista la progettazione con il criterio della gerarchia delle resistenze (**G.R.**) vengono riportate le verifiche di sovrarresistenza e del nodo.

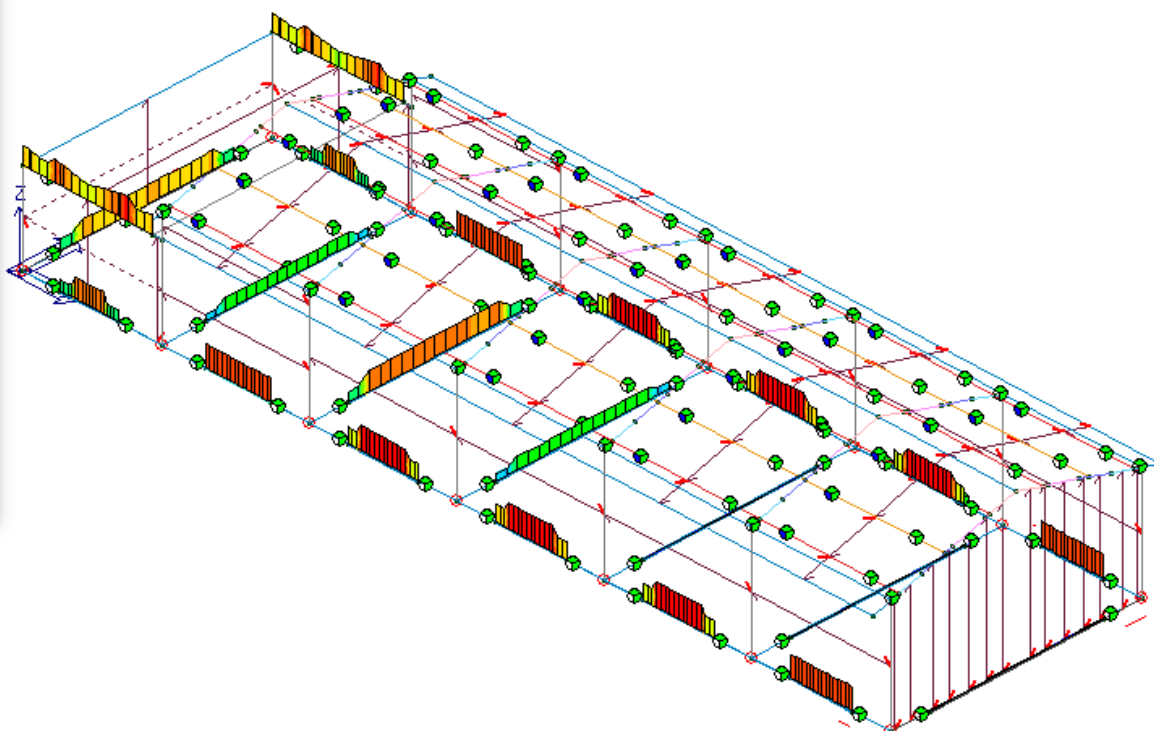
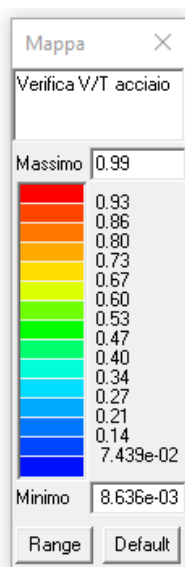
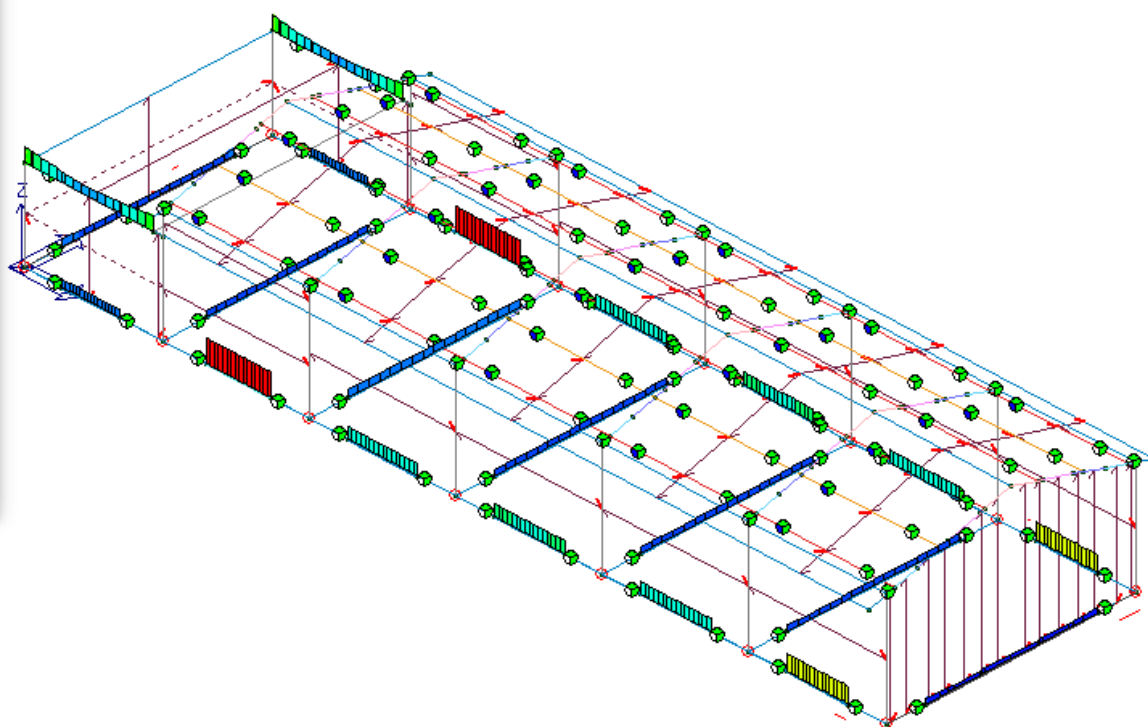
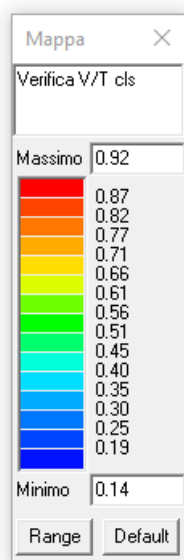
Per gli elementi tipo pilastro sono riportati numero e diametro dei ferri di vertice, numero e diametro di ferri disposti lungo i lati L1 (paralleli alla base della sezione) e lungo i lati L2 (paralleli all'altezza della sezione).

Per gli elementi tipo trave sono riportati infine le quantità di armatura inferiore e superiore.



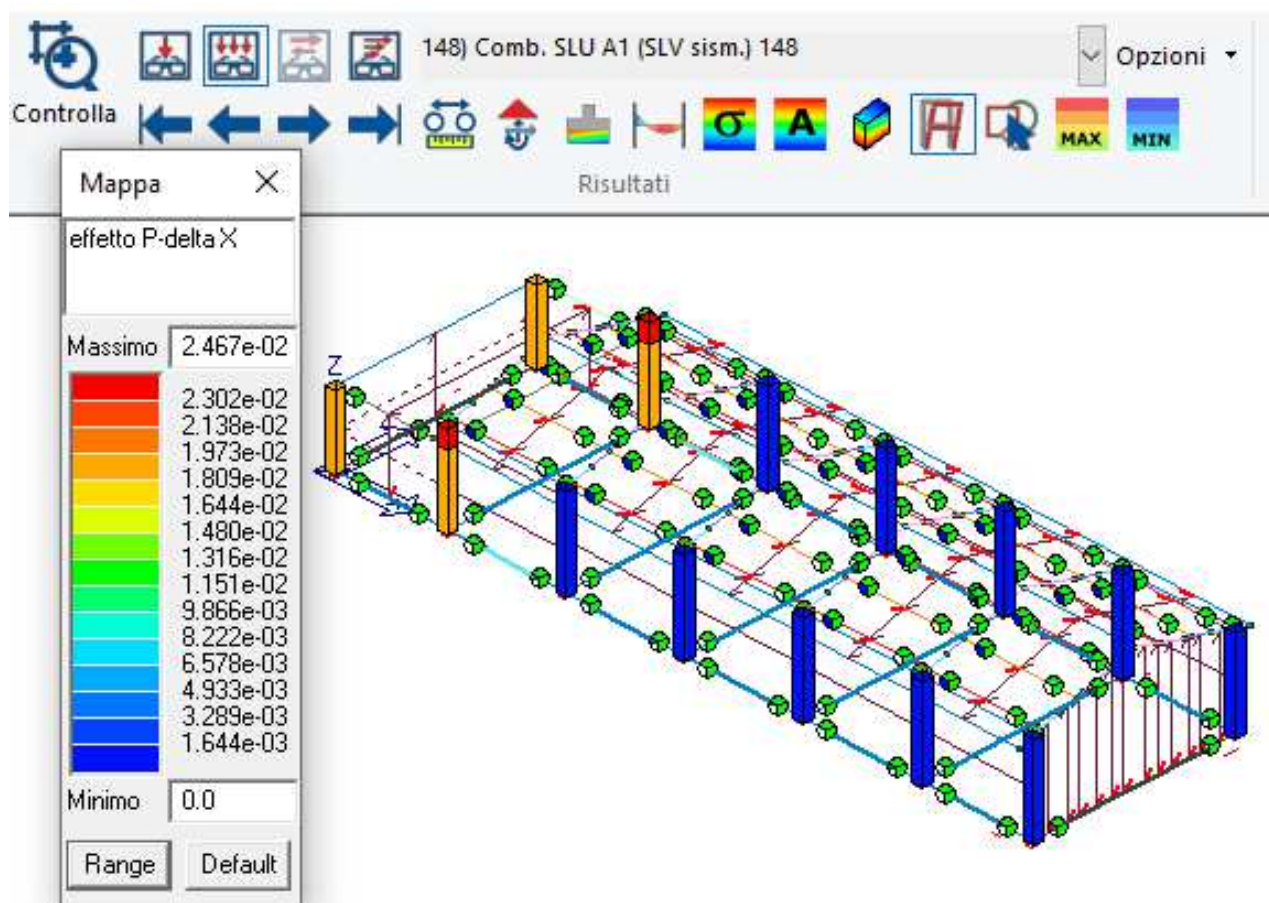






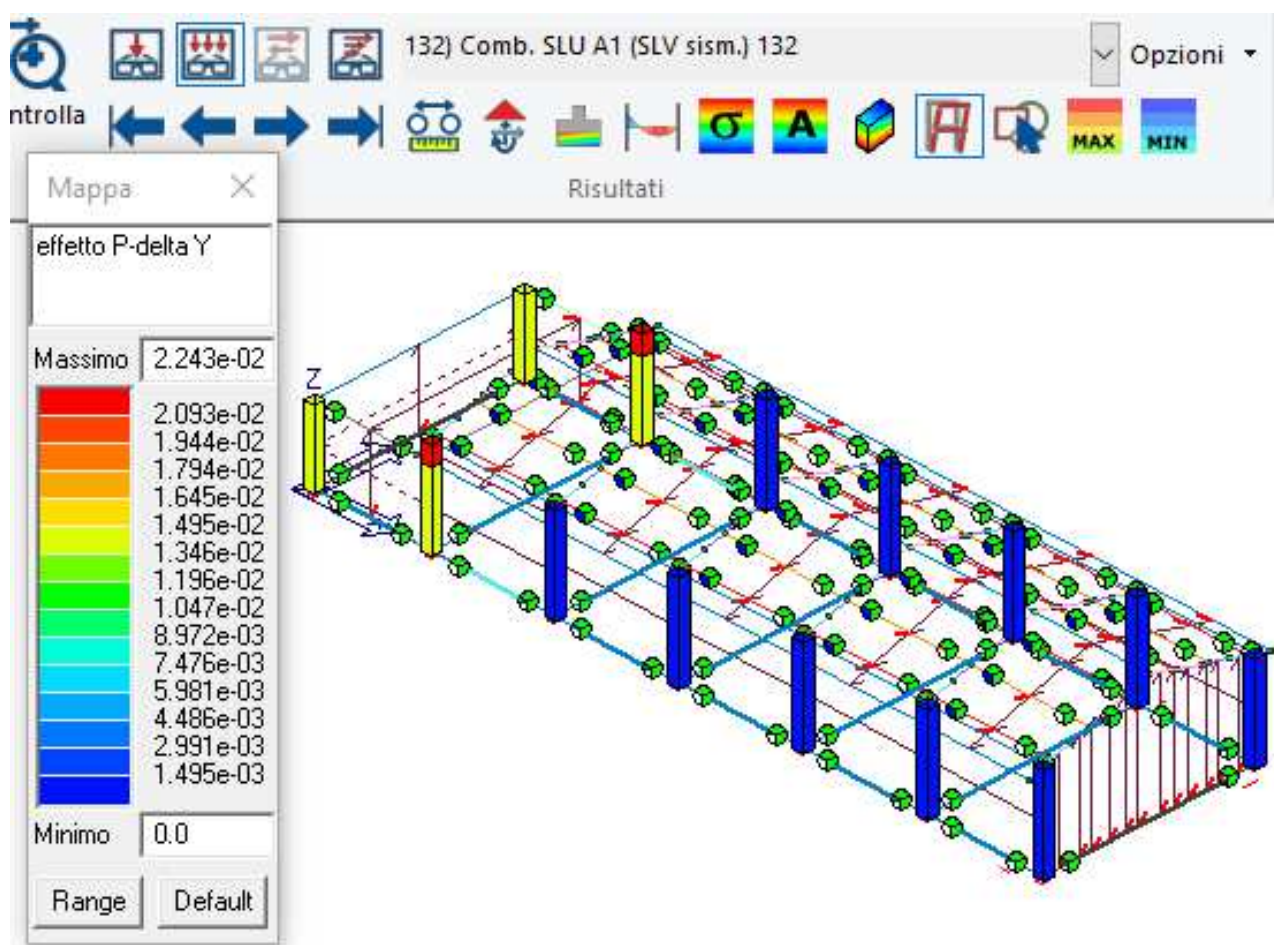
Visualizzazione, mediante mappa di colore, dei valori massimi del rapporto S_d/S_u con sollecitazioni taglianti e torcenti proporzionali; il valore del rapporto deve essere minore o uguale a 1 per verifica positiva (S_d = sollecitazione di progetto, S_u = sollecitazione ultima)

Effetto p-delta X



$p\text{-delta } X = 0.025 < 0.1 \rightarrow \text{effetto } p\text{-delta } X \text{ trascurabile}$

Effetto p-delta Y

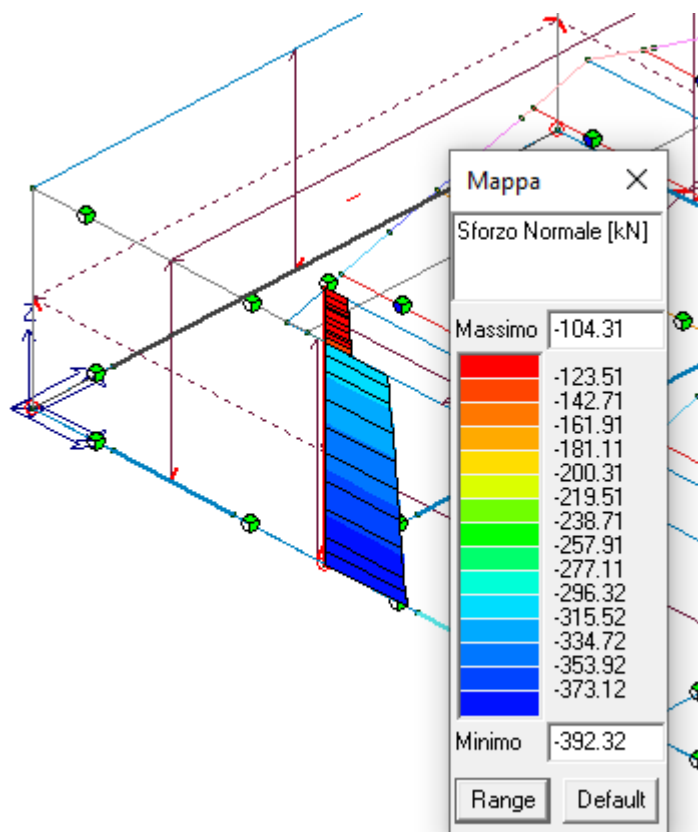
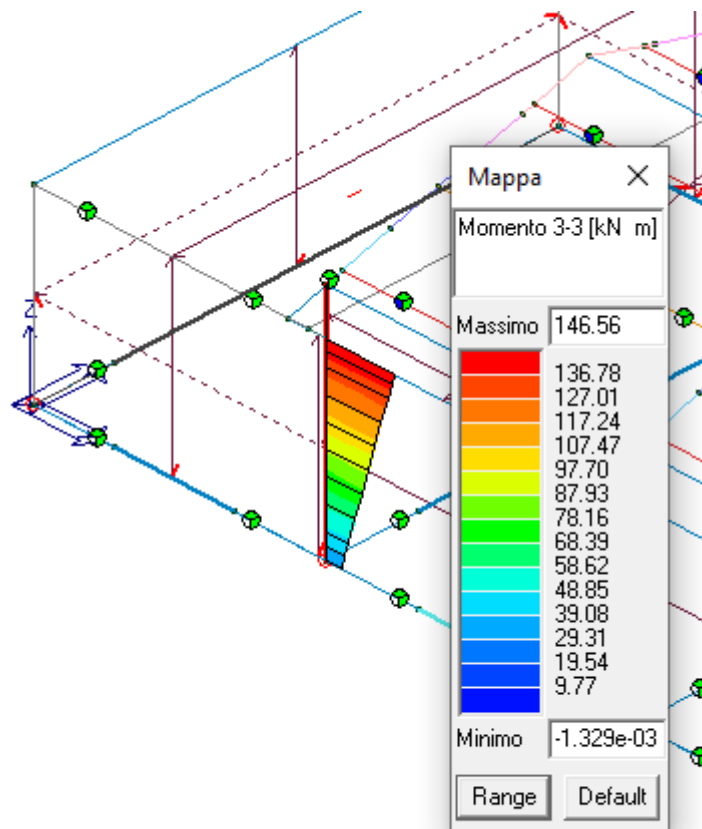


$p\text{-delta } Y = 0.022 < 0.1 \rightarrow \text{effetto } p\text{-delta } Y \text{ trascurabile}$

j.4. 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 abnormi. 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 verifica il pilastro maggiormente sollecitato per cui si ha:



Verifica C.A. S.L.U. - File: — □ ×

File Materiali Opzioni Visualizza Progetto Sez. Rett. Sismica Normativa: NTC 2008 ?

Titolo :

N°	b [cm]	h [cm]
1	60	60

N° strati barre 4 Zoom

N°	As [cm²]	d [cm]
1	56,55	4,5
2	14,14	21,5
3	14,14	38,5
4	56,55	55,6

Tipo Sezione
☒ Rettan.re ☐ Trapezi
☐ a T ☐ Circolare
☐ Rettangoli ☐ Coord.

Sollecitazioni

S.L.U. → ← Metodo n

N _{Ed}	-400	0 kN
M _{xEd}	150	0 kNm
M _{yEd}	0	0

P.to applicazione N

☒ Centro ☐ Baricentro cls

☐ Coord.[cm] xN 0
yN 0

Tipo rottura
Lato calcestruzzo - Acciaio snervato

Materiali

B450C

C40/50

ε _{su}	67,5 ‰	ε _{c2}	2 ‰
f _{yd}	391,3 N/mm²	ε _{cu}	3,5
E _s	200.000 N/mm²	f _{cd}	22,67
E _s /E _c	15	f _{cc} /f _{cd}	0,8 ?
ε _{syd}	1,957 ‰	σ _{c,adm}	14,75
σ _{s,adm}	255 N/mm²	τ _{co}	0,8667
		τ _{c1}	2,4

M_{xRd} 1.416 kN m

σ_c -22,67 N/mm²

σ_s 391,3 N/mm²

ε_c 3,5 ‰

ε_s 15,69 ‰

d 55,6 cm

x 10,14 x/d 0,1824

δ 0,7

Metodo di calcolo

☒ S.L.U.+ ☐ S.L.U.-
☐ Metodo n

Tipo flessione

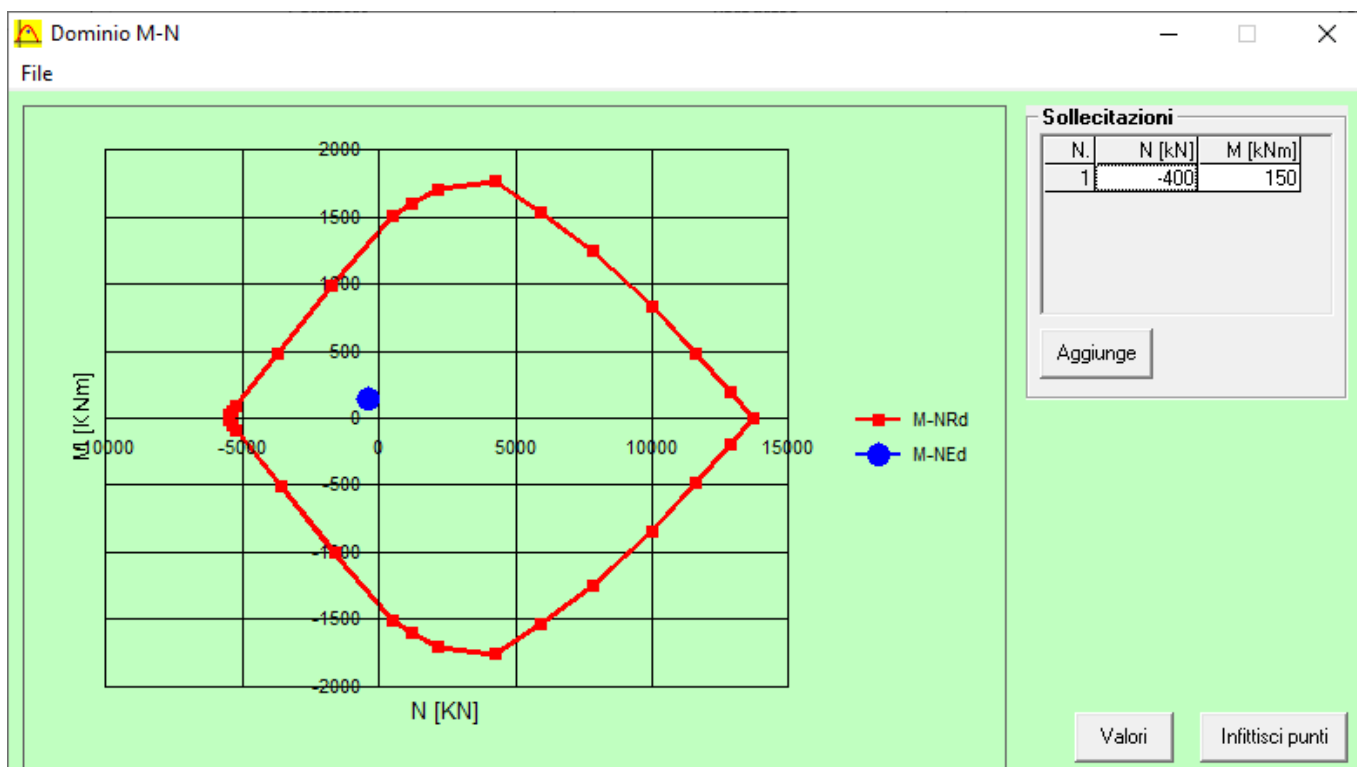
☒ Retta ☐ Deviata

N° rett. 100

Calcola MRd Dominio M-N

L₀ 0 cm Col. modello

☐ Precompresso



k) Caratteristiche di affidabilità del codice strutturale

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:

Origine e Caratteristiche dei Codici di Calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2017-04-177)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Dati utente finale:	Studio Tecnico Capellari Ing. Luca & Ing. Alberto
Codice Utente:	001257/cli
Codice Licenza 1:	dsi3996
Codice Licenza 2:	dsi4792

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:

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: http://www.2si.it/Software/Affidabilità.htm

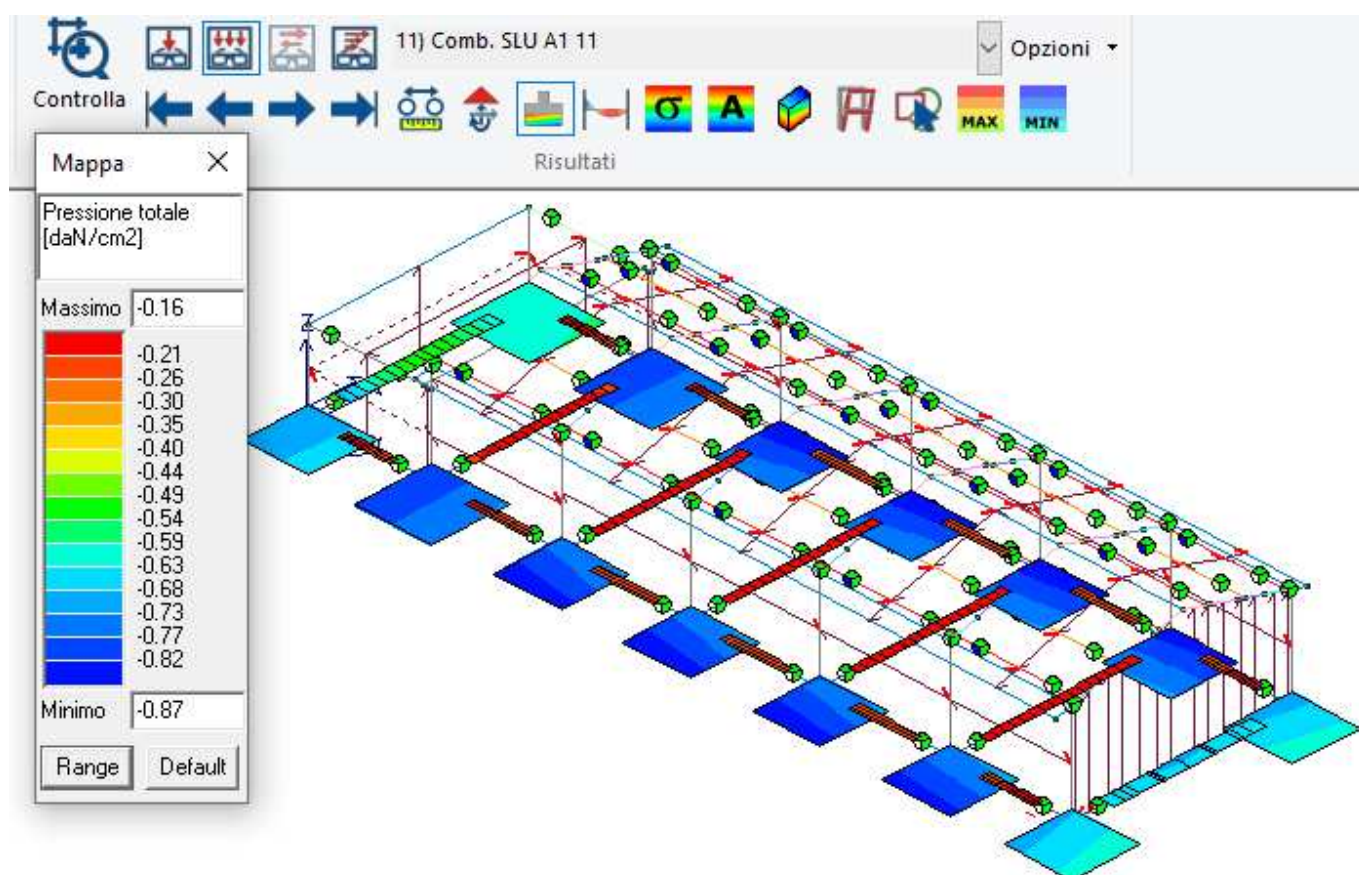
l) Strutture geotecniche o di fondazione

In relazione a quanto esposto nella normativa tecnica nazionale NTC 2018, si procede alla verifica nei confronti degli stati limite ultimi (SLU) di resistenza del terreno (GEO) relativamente alle opere di fondazione in oggetto, di tipo superficiale, fornendo il valore di resistenza offerta dal sistema geotecnico (R_d GEO).

Le verifiche sono effettuate applicando la combinazione (A1+M1+R3) di coefficienti parziali prevista dall'approccio 2, tenendo conto dei valori dei coefficienti parziali riportati nelle tabelle 6.2.I, 6.2.II e 6.4.I.

È stato eseguito il calcolo della Resistenza di Progetto R_d (kN/m^2) in condizioni drenate e non drenate ipotizzando un carico applicato al terreno di fondazione pari a $P = 1.00 \text{ kg/cm}^2 \approx 100.0 \text{ kN/m}^2$ (Allegato n. 2).

RESISTENZA DI PROGETTO	(TERZAGHI 1955)	(HANSEN 1970)	(BRINCH-HANSEN 1970)
Condizioni Drenate	304.27 kN/m^2	306.04 kN/m^2	323.83 kN/m^2
Condizioni Non Drenate	239.57 kN/m^2	225.23 kN/m^2	201.77 kN/m^2



$$E_d = 0.87 \text{ kg/cm}^2 < R_d = 3.04 \text{ kg/cm}^2 \rightarrow \text{VERIFICATO}$$

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 le sollecitazioni delle combinazioni con sisma 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 vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

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

2. RELAZIONE DI CALCOLO

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.

Descrizione generale dell'opera

Descrizione generale dell'opera

Ubicazione	Comune di MODENA (MO) (Regione EMILIA-ROMAGNA)
	Località MODENA (MO)
	Longitudine 10.817, Latitudine 44.631

Parametri della struttura

Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]
II	50.0	1.0	50.0

Fattore di struttura/comportamento

Calcolo dei fattori di comportamento secondo il D.M. 17/01/2018

La costruzione, nuova, è caratterizzata da non regolarità sia in pianta sia in altezza ed è progettata considerando un comportamento non dissipativo (ND).

Parametri fattore in direzione x e y

Sistema costruttivo:	prefabbricato
Tipologia strutturale:	strutture con pilastri incastrati e orizzontamenti incernierati
Valore base fattore	$q_0 = 2.500$
Fattore di regolarità	$K_R = 0.8$
Fattore dissipativo	$q_D = q_0 \cdot K_R = 2.000$
Fattore non dissipativo	$q_{ND} = 2/3 \cdot q_D = 1.333 (\leq 1.5)$

Fattori di comportamento utilizzati

	Dissipativi	Non dissipativi
q SLU x	2.000	1.333
q SLU y	2.000	1.333
q SLU z	1.500	1.500

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
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Azioni di progetto sulla costruzione

Nei capitoli "modellazione delle azioni" e "schematizzazione dei casi di carico" sono indicate le azioni sulla costruzioni.

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:

$$\mathbf{K} \cdot \mathbf{u} = \mathbf{F} \text{ dove } \mathbf{K} = \text{matrice di rigidezza}$$

\mathbf{u} = vettore spostamenti nodali

F = vettore forze nodali

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)

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

Tipo di analisi strutturale

Carichi verticali	SI
Sismica dinamica lineare	SI
Non linearità geometriche (fattore P delta)	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:

Informazioni sul codice di calcolo

Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2020-12-191)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi4792

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:

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	152
elementi D2 (per aste, travi, pilastri...)	191
elementi D3 (per pareti, platee, gusci...)	0
elementi solaio	47
elementi solidi	0

Dimensione del modello strutturale [cm]:

X min =	5.00
Xmax =	3960.00
Ymin =	-79.74
Ymax =	1229.74
Zmin =	0.00
Zmax =	661.00

Strutture verticali:

Elementi di tipo asta	NO
Pilastri	SI

Strutture non verticali:

Elementi di tipo asta	NO
Travi	SI

Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	SI
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	SI
Fondazioni di tipo platea	NO
Fondazioni con elementi solidi	NO

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”.

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	
SLU	SI
SLV (SLU con sisma)	SI
SLD	SI
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI
SLA (accidentale quale incendio)	SI

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 abnormi. 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.) .

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.

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.

RELAZIONE SUI MATERIALI

Il capitolo Materiali riporta informazioni esaustive relative all'elenco dei materiali impiegati e loro modalità di posa in opera e ai valori di calcolo.

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.

NOTA il capitolo "normativa di riferimento": 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 norme antecedenti al DM 17.01.18 è dovuto o a progettazione simulata di edificio esistente.

ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

p.e. 10% in 50 anni

Nota: per il calcolo dei parametri sismici
1) inserire le coordinate geografiche 2) introdurre Vn e Cu

Per le isole è possibile utilizzare come località: gruppo isole N
[con N = 1,2,3,4,5]

Vertici della maglia elementare INGV [riferimento WGS84]

Id nodo	Longitudine	Latitudine	Distanza [km]
16278	10.753	44.603	5.943
16279	10.823	44.605	2.966
16057	10.821	44.655	2.635
16056	10.750	44.653	5.793

Coordinate geografiche [riferimento WGS84]

Località:

Longitudine: Latitudine:

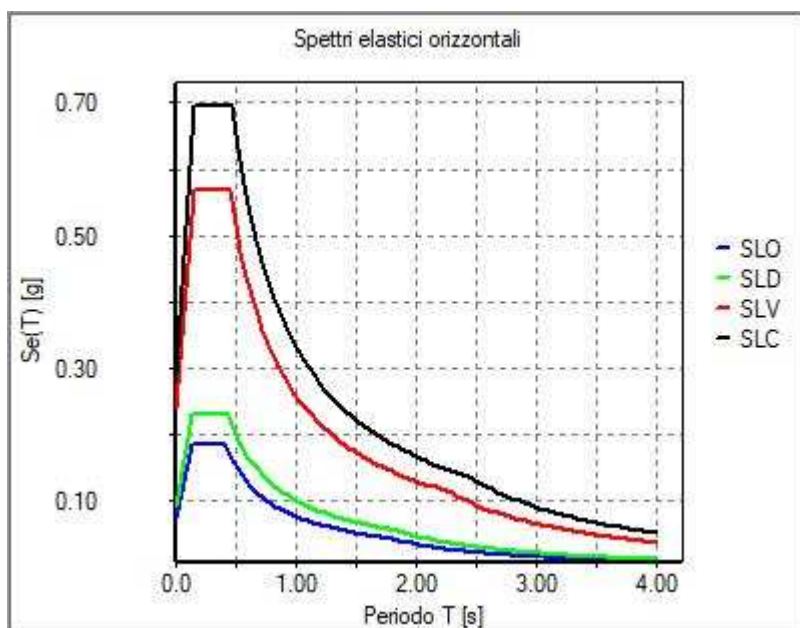
Parametri per le forme spettrali

	Pver	Tr	ag [g]	Fo	T*c
SLO	<input type="text" value="81"/>	<input type="text" value="30"/>	0.0496	2.475	0.250
SLD	<input type="text" value="63"/>	<input type="text" value="50"/>	0.0616	2.498	0.270
SLV	<input type="text" value="10"/>	<input type="text" value="475"/>	0.1622	2.381	0.290
SLC	<input type="text" value="5"/>	<input type="text" value="975"/>	0.2080	2.383	0.310

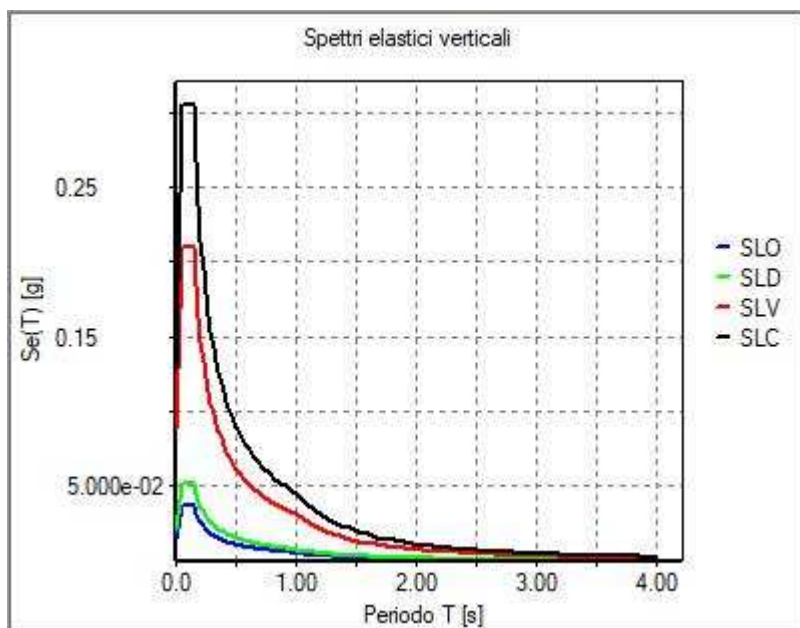
Periodo di riferimento per l'azione sismica

Vita Vn [anni]	Coefficiente uso Cu	Periodo Vr [anni]	Livello di sicurezza
<input type="text" value="50"/>	<input type="text" value="1"/>	<input type="text" value="50"/>	<input type="text" value="100"/>

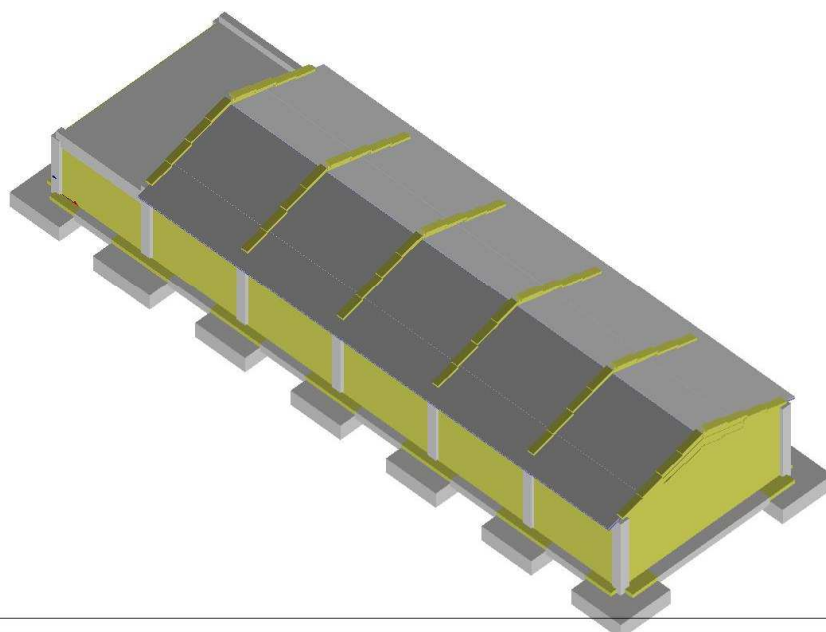
01_INT_PERICOLOSITA



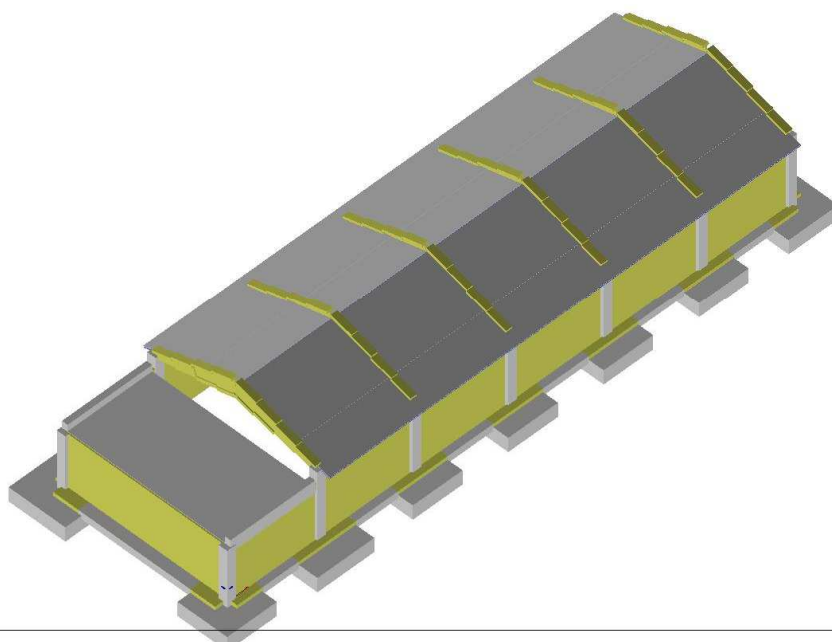
01_INT_SPETTRI_ELASTICI_O



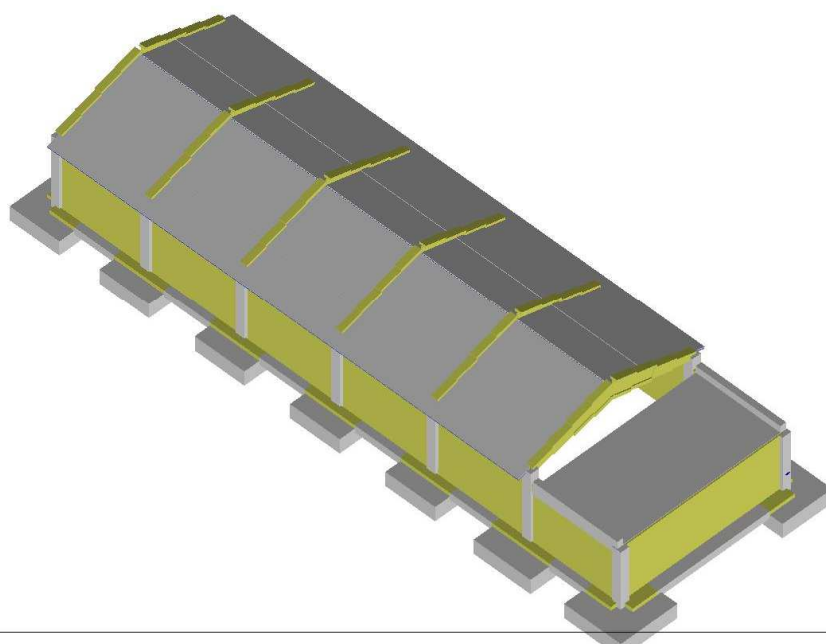
01_INT_SPETTRI_ELASTICI_V



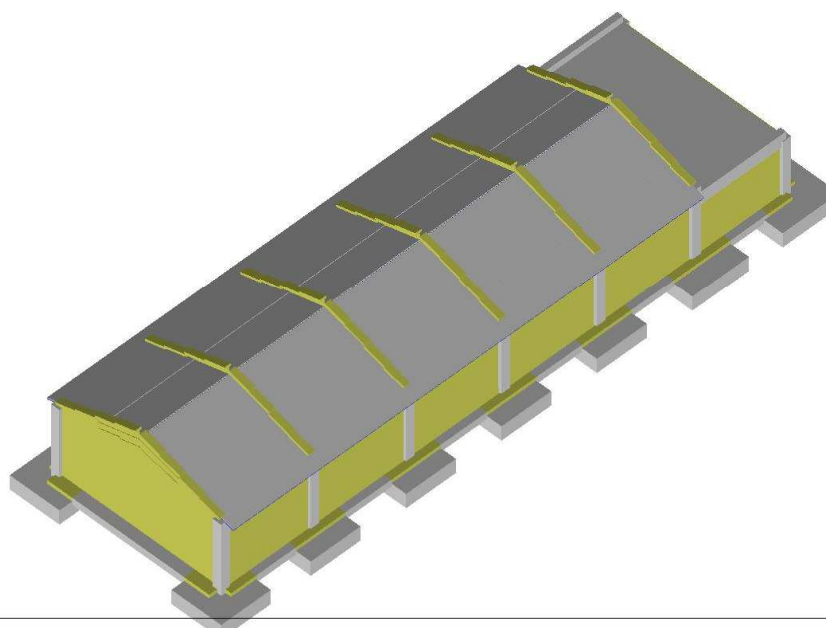
01_INT_VISTA_SOLIDA_001



01_INT_VISTA_SOLIDA_002



01_INT_VISTA_SOLIDA_003



01_INT_VISTA_SOLIDA_004

CARATTERISTICHE MATERIALI UTILIZZATI

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 ammissibile(>40)	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
3	muratura	Muratura consolidata Incremento resistenza Incremento rigidezza Resistenza f	Muratura per la quale si prevedono interventi di rinforzo" Incremento conseguito in termini di resistenza Incremento conseguito in termini di rigidezza Valore della resistenza a compressione

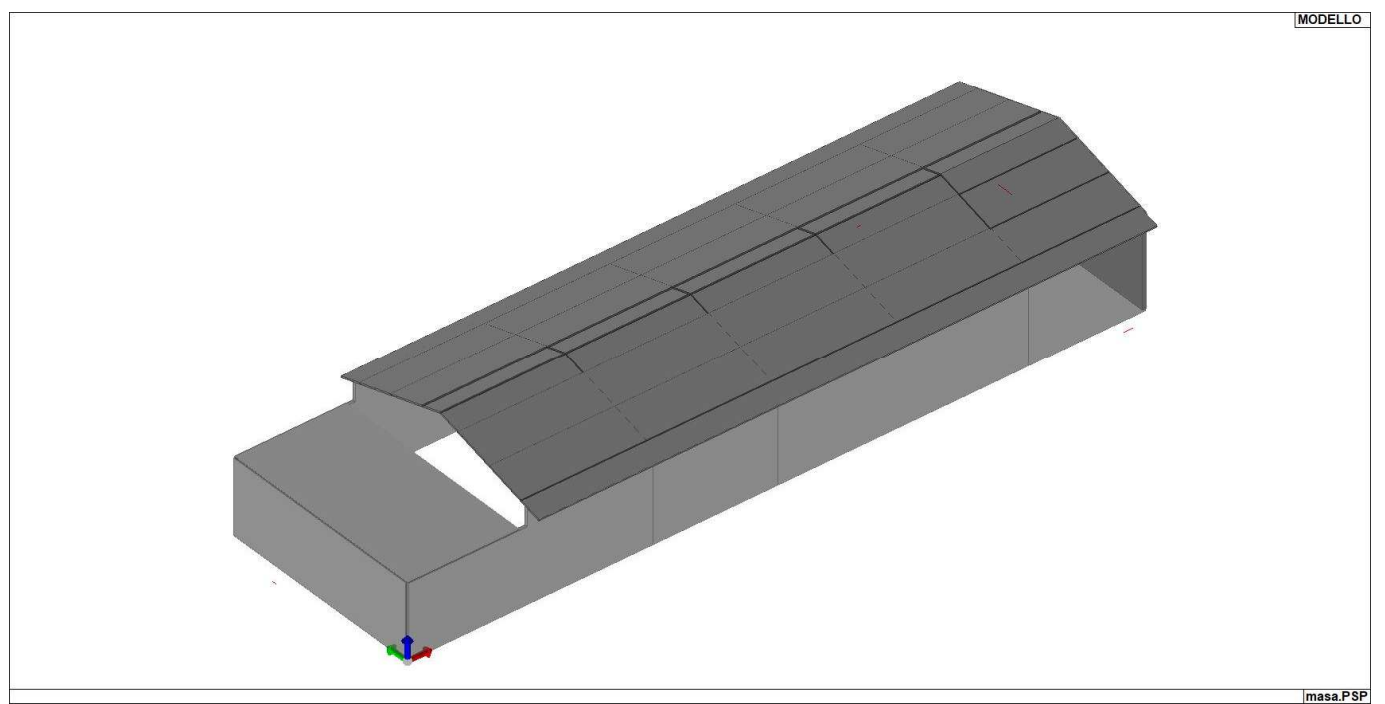
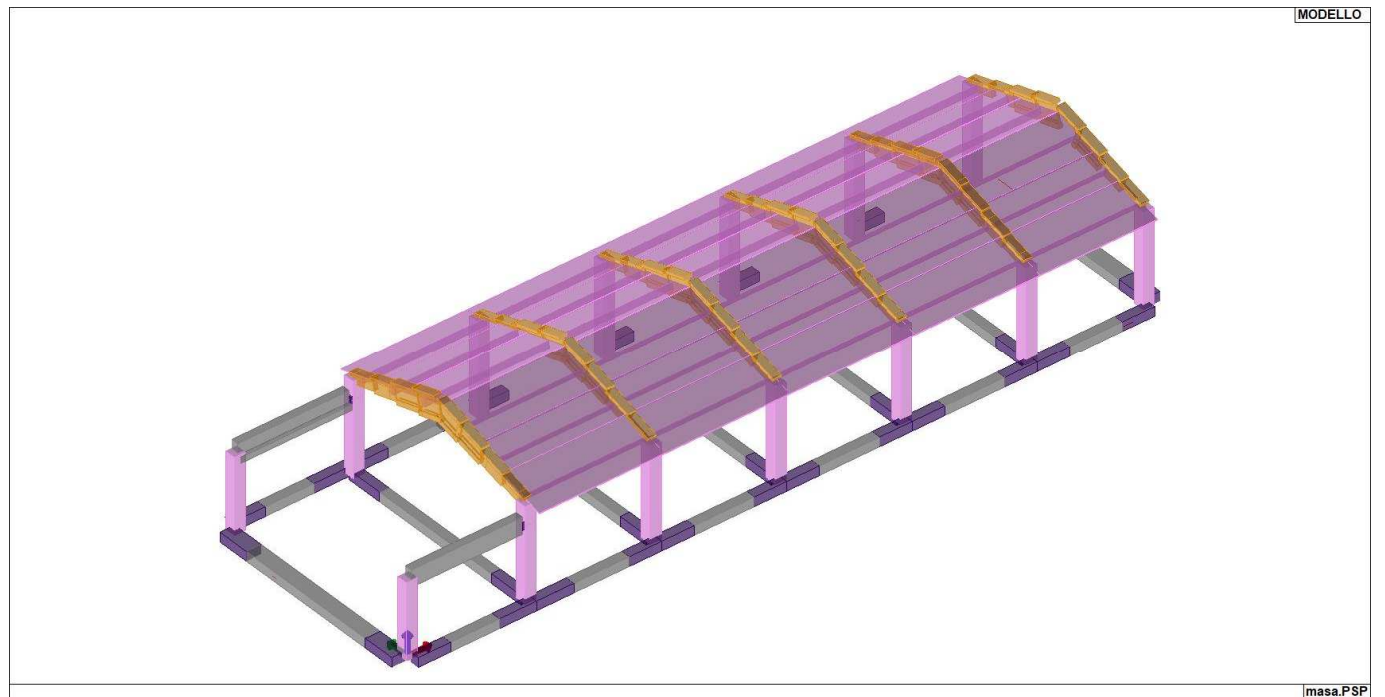
	Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali
	Resistenza fh	Valore della resistenza a compressione orizzontale
	Resistenza fb	Valore della resistenza a compressione dei blocchi
	Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
	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 fvlim	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 (tipicamente 0.4)
	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)

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		
1	Calcestruzzo Classe C25/30			3.145e+05	0.20	1.310e+05	2.50e-03	1.00e-05	
	Resistenza Rc	300.0							
	Resistenza fctm		25.6						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
7	Calcestruzzo Classe C40/50			3.550e+05	0.20	1.479e+05	2.50e-03	1.00e-05	
	Resistenza Rc	500.0							
	Resistenza fctm		36.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
10	travi principali-materiale E = 3.550e+05			3.550e+05	0.20	1.479e+05	0.0	0.0	
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
11	Acciaio Fe360 - S235-acciaio Fe360-S235			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	3600.0							
	Resistenza fd	2350.0							
	Resistenza fd (>40)	2100.0							
	Tensione ammissibile	1600.0							
	Tensione ammissibile (>40)	1400.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
157	Materiale inf. rigido no peso E = 1.000e+09			1.000e+09	0.0	5.000e+08	0.0	1.20e-05	

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
158	materiale E = 100.00			100.0	0.0	50.0	2.50e-03	0.0	
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05



Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	NO	NO	NO	NO		

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Af inf: da q*L*L /	0.0	0.0	0.0	0.0		
Armatura						
Minima tesa	0.31	0.0	0.0	0.0		
Minima compressa	0.31	0.0	0.0	0.0		
Massima tesa	0.78	0.78	0.78	0.78		
Da sezione	SI	SI	SI	SI		
Usa armatura teorica	NO	NO	NO	NO		
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00		
Tensione fy staffe [daN/cm2]	4500.00	4500.00	4500.00	4500.00		
Tipo acciaio	tipo C	tipo C	tipo C	tipo C		
Coefficiente gamma s	1.15	1.15	1.15	1.15		
Coefficiente gamma c	1.50	1.50	1.50	1.50		
Verifiche con N costante	SI	SI	SI	SI		
Fattore di ridistribuzione	0.0	0.0	0.0	0.0		
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander		
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03		
Fattore lambda	1.00	1.00	1.00	1.00		
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02		
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03		
epsilon c2	0.0	0.0	0.0	0.0		
epsilon cy	0.0	0.0	0.0	0.0		
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50	97.50	97.50		
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00	2600.00		
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00		
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00		
Staffe						
Diametro staffe	0.0	10.00	10.00	12.00		
Passo minimo [cm]	4.00	10.00	25.00	10.00		
Passo massimo [cm]	30.00	20.00	25.00	20.00		
Passo raffittito [cm]	15.00	10.00	25.00	10.00		
Lunghezza zona raffittita [cm]	50.00	50.00	50.00	50.00		
Ctg(Teta) Max	2.50	2.50	2.50	2.50		
Percentuale sagomati	0.0	0.0	0.0	0.0		
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00		
Adotta scorrimento medio	NO	NO	NO	NO		
Torsione non essenziale inclusa	SI	SI	SI	SI		

Pilastrati c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Disponi come da sezione	Privilegia lati	Privilegia lati	Privilegia lati		
Progetta a filo	NO	NO	NO	NO		
Effetti del 2 ordine	SI	SI	SI	SI		
Beta per 2-2	1.00	1.00	1.00	1.00		
Beta per 3-3	1.00	1.00	1.00	1.00		
Armatura						
Massima tesa	4.00	4.00	4.00	4.00		
Minima tesa	1.00	1.00	1.00	1.00		
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00		
Tensione fy staffe [daN/cm2]	4500.00	4500.00	4500.00	4500.00		
Tipo acciaio	tipo C	tipo C	tipo C	tipo C		
Coefficiente gamma s	1.15	1.15	1.15	1.15		
Coefficiente gamma c	1.50	1.50	1.50	1.50		
Verifiche con N costante	SI	SI	SI	SI		
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander		
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03		
Fattore lambda	1.00	1.00	1.00	1.00		
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02		
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03		
epsilon c2	0.0	0.0	0.0	0.0		
epsilon cy	0.0	0.0	0.0	0.0		
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50	97.50	97.50		
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00	2600.00		
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00		
Staffe						
Diametro staffe	0.0	0.0	0.0	0.0		

Pilastrì c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Passo minimo [cm]	5.00	5.00	5.00	5.00		
Passo massimo [cm]	25.00	25.00	25.00	25.00		
Passo raffittito [cm]	15.00	15.00	15.00	15.00		
Lunghezza zona raffittita [cm]	45.00	45.00	45.00	45.00		
Ctg(Teta) Max	2.50	2.50	2.50	2.50		
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00		
Massimizza gerarchia	NO	SI	SI	SI		

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	NO	NO	NO	NO		
Af inf: da traliccio	SI	SI	SI	SI		
Consenti armatura a taglio	NO	NO	NO	NO		
Incrementa armatura longitudinale per taglio	SI	SI	SI	SI		
Af inf: da $q \cdot L \cdot L /$	20.00	20.00	20.00	20.00		
Incremento fascia piena [cm]	5.00	5.00	5.00	5.00		
Armatura						
Minima tesa	0.15	0.15	0.15	0.15		
Massima tesa	3.00	3.00	3.00	3.00		
Minima compressa	0.0	0.0	0.0	0.0		
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02	7.000e-02		
Stati limite ultimi						
Tensione f_y [daN/cm ²]	4500.00	4500.00	4500.00	4500.00		
Tipo acciaio	tipo C	tipo C	tipo C	tipo C		
Coefficiente gamma s	1.15	1.15	1.15	1.15		
Coefficiente gamma c	1.50	1.50	1.50	1.50		
Fattore di ridistribuzione	0.0	0.0	0.0	0.0		
Tensioni ammissibili						
Tensione amm. cls [daN/cm ²]	85.00	85.00	85.00	85.00		
Tensione amm. acciaio [daN/cm ²]	2600.00	2600.00	2600.00	2600.00		
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00		
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00		
Verifica freccia						
Infinita	250.00	250.00	250.00	250.00		
Istantanea	500.00	500.00	500.00	500.00		
Fattore viscosità	3.00	3.00	3.00	3.00		
Usa J non fessurato	NO	NO	NO	NO		
Elementi non strutturali						
Tamponatura antiespulsione	NO	NO	NO	NO		
Tamponatura con armatura	NO	NO	NO	NO		
Fattore di struttura/comportamento	2.00	2.00	2.00	2.00		
Coefficiente gamma m	0.0	0.0	0.0	0.0		
Periodo T_a	0.0	0.0	0.0	0.0		
Altezza pannello	0.0	0.0	0.0	0.0		

MODELLAZIONE DELLE SEZIONI

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

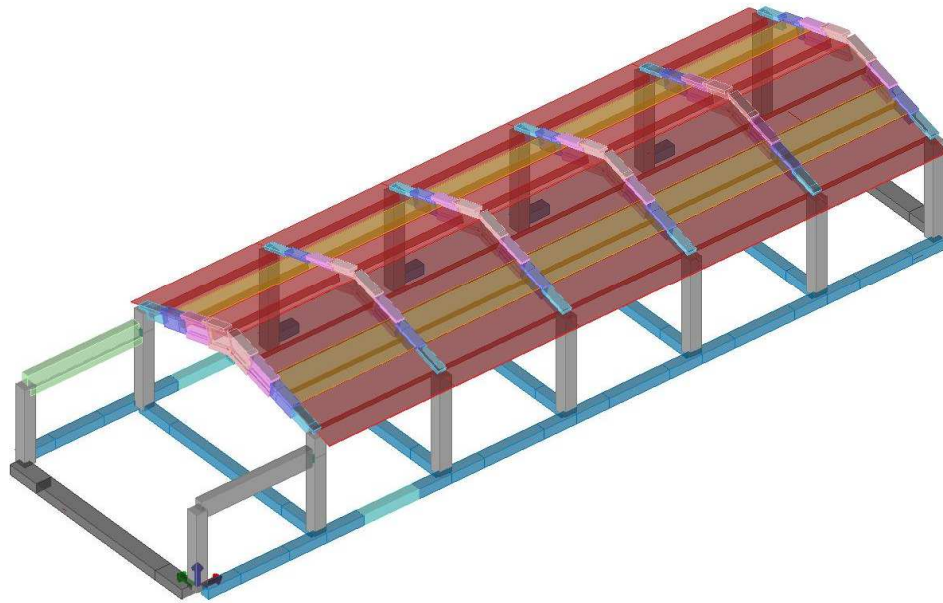
I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidità degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali 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 profilati.

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
1	Rettangolare: b=60 h=60	3600.00	3000.00	3000.00	1.822e+06	1.080e+06	1.080e+06	3.600e+04	3.600e+04	5.400e+04	5.400e+04
2	Rettangolare: b=50 h=50	2500.00	2083.33	2083.33	8.785e+05	5.208e+05	5.208e+05	2.083e+04	2.083e+04	3.125e+04	3.125e+04
3	Rettangolare: b=50 h=40	2000.00	1666.67	1666.67	5.498e+05	4.167e+05	2.667e+05	1.667e+04	1.333e+04	2.500e+04	2.000e+04
4	L regolare: bi=60 ht=90 bs=40 hi=30	4200.00	0.0	0.0	1.752e+06	9.629e+05	2.938e+06	2.696e+04	5.961e+04	5.300e+04	9.675e+04
5	T ribassata: bi=25 ht=60 bs=45 hs=16	1820.00	0.0	0.0	2.781e+05	1.788e+05	5.845e+05	7946.30	1.726e+04	1.497e+04	2.852e+04
6	T ribassata: bi=25 ht=80 bs=45 hs=16	2320.00	0.0	0.0	3.823e+05	2.048e+05	1.356e+06	9103.70	3.053e+04	1.810e+04	4.922e+04
7	Doppio T: bi=25 ba=11 bs=45 ht=110 hi=23 hs=15	2042.00	0.0	0.0	1.320e+05	1.518e+05	2.953e+06	6748.45	4.921e+04	1.337e+04	7.070e+04
8	Doppio T: bi=25 ba=11 bs=45 ht=130 hi=23 hs=15	2262.00	0.0	0.0	1.409e+05	1.541e+05	4.581e+06	6847.04	6.512e+04	1.397e+04	9.222e+04
9	T ribassata: bi=20 ht=40 bs=250 hs=5	1950.00	0.0	0.0	8.335e+04	6.534e+06	2.535e+05	5.227e+04	8362.32	8.163e+04	1.507e+04
10	T ribassata: bi=24.5 ht=40 bs=180 hs=5	1757.50	0.0	0.0	1.278e+05	2.473e+06	2.651e+05	2.748e+04	9554.48	4.575e+04	1.725e+04
11	Rettangolare: b=80 h=50	4000.00	3333.33	3333.33	2.021e+06	2.133e+06	8.333e+05	5.333e+04	3.333e+04	8.000e+04	5.000e+04
12	L inversa: bi=60 ht=90 bs=40 hi=30	4200.00	0.0	0.0	1.752e+06	9.629e+05	2.938e+06	2.696e+04	5.961e+04	5.300e+04	9.675e+04
13	Rettangolare: b=50 h=50	2500.00	2083.33	2083.33	8.785e+05	5.208e+05	5.208e+05	2.083e+04	2.083e+04	3.125e+04	3.125e+04



13_MOD_SEZIONI

MODELLAZIONE STRUTTURA: NODI

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).

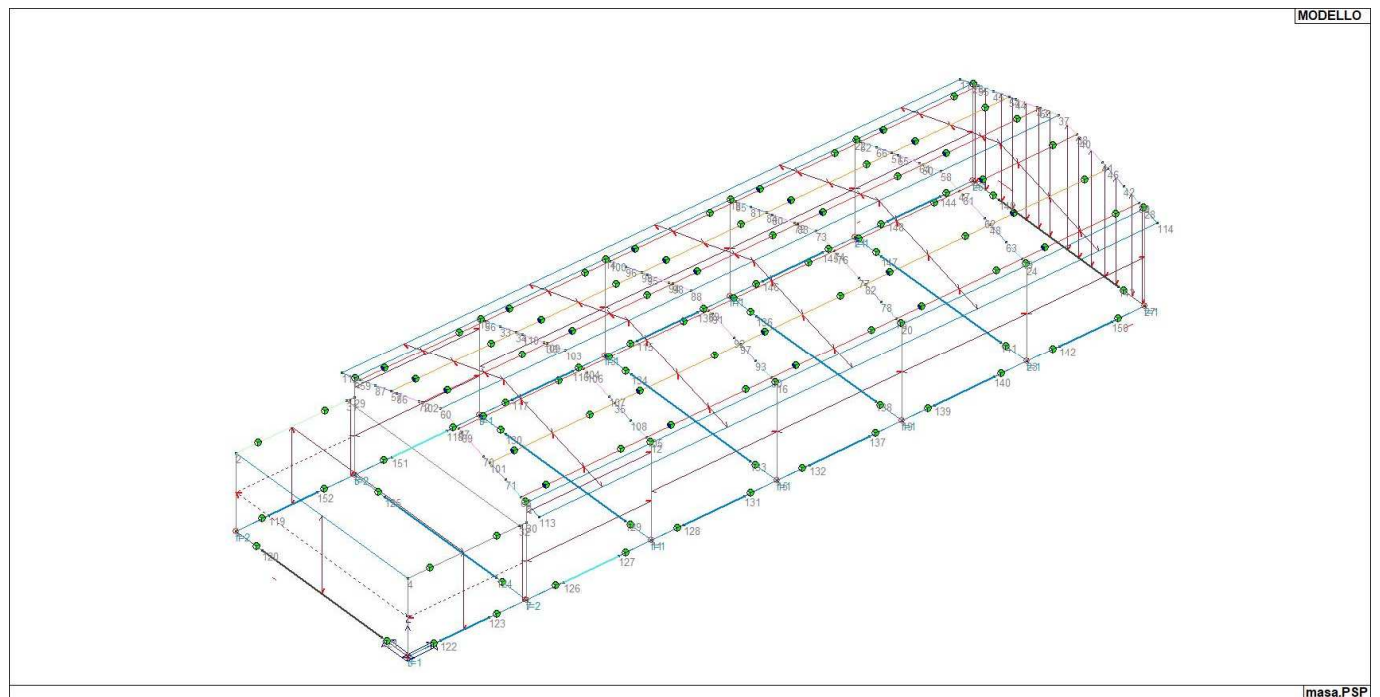
Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2	5.0	1145.0	400.0	4	5.0	5.0	400.0	6	641.0	1145.0	500.0
8	641.0	5.0	500.0	10	1313.0	1145.0	500.0	12	1313.0	5.0	500.0
14	1985.0	1145.0	500.0	16	1985.0	5.0	500.0	18	2657.0	1145.0	500.0
20	2657.0	5.0	500.0	22	3329.0	1145.0	500.0	24	3329.0	5.0	500.0
26	3960.0	1145.0	500.0	28	3960.0	5.0	500.0	29	641.0	1145.0	400.0
30	641.0	5.0	400.0	31	601.0	1145.0	400.0	32	601.0	5.0	400.0
33	1313.0	1006.3	539.2	34	1313.0	902.4	568.5	35	1313.0	247.6	568.5
36	1313.0	695.4	627.0	37	3960.0	575.0	661.0	38	3960.0	454.6	627.0
39	3960.0	40.6	510.0	40	3960.0	431.3	620.4	41	3960.0	287.5	579.8
42	3960.0	143.8	539.2	43	3960.0	718.8	620.4	44	3960.0	862.5	579.8
45	3960.0	1006.3	539.2	46	3960.0	247.6	568.5	47	3329.0	454.6	627.0
48	3329.0	247.6	568.5	49	3329.0	40.6	510.0	50	3329.0	695.4	627.0
51	3329.0	902.4	568.5	52	3329.0	1109.4	510.0	53	3960.0	695.4	627.0
54	3960.0	902.4	568.5	55	3960.0	1109.4	510.0	56	1313.0	1109.4	510.0
57	641.0	902.4	568.5	58	3329.0	575.0	661.0	59	641.0	1109.4	510.0
60	641.0	575.0	661.0	61	3329.0	431.3	620.4	62	3329.0	287.5	579.8
63	3329.0	143.8	539.2	64	3329.0	718.8	620.4	65	3329.0	862.5	579.8
66	3329.0	1006.3	539.2	67	641.0	454.6	627.0	68	641.0	40.6	510.0
69	641.0	431.3	620.4	70	641.0	287.5	579.8	71	641.0	143.8	539.2
72	641.0	718.8	620.4	73	2657.0	575.0	661.0	74	2657.0	454.6	627.0
75	2657.0	40.6	510.0	76	2657.0	431.3	620.4	77	2657.0	287.5	579.8
78	2657.0	143.8	539.2	79	2657.0	718.8	620.4	80	2657.0	862.5	579.8
81	2657.0	1006.3	539.2	82	2657.0	247.6	568.5	83	2657.0	695.4	627.0
84	2657.0	902.4	568.5	85	2657.0	1109.4	510.0	86	641.0	862.5	579.8
87	641.0	1006.3	539.2	88	1985.0	575.0	661.0	89	1985.0	454.6	627.0
90	1985.0	40.6	510.0	91	1985.0	431.3	620.4	92	1985.0	287.5	579.8
93	1985.0	143.8	539.2	94	1985.0	718.8	620.4	95	1985.0	862.5	579.8
96	1985.0	1006.3	539.2	97	1985.0	247.6	568.5	98	1985.0	695.4	627.0
99	1985.0	902.4	568.5	100	1985.0	1109.4	510.0	101	641.0	247.6	568.5
102	641.0	695.4	627.0	103	1313.0	575.0	661.0	104	1313.0	454.6	627.0
105	1313.0	40.6	510.0	106	1313.0	431.3	620.4	107	1313.0	287.5	579.8
108	1313.0	143.8	539.2	109	1313.0	718.8	620.4	110	1313.0	862.5	579.8
111	3960.0	1229.7	476.1	112	641.0	1229.7	476.1	113	641.0	-79.7	476.1
114	3960.0	-79.7	476.1	115	2160.0	1145.0	0.0	116	1810.0	1145.0	0.0
117	1488.0	1145.0	0.0	118	1138.0	1145.0	0.0	119	180.0	1145.0	0.0
120	5.0	970.0	0.0	121	5.0	180.0	0.0	122	180.0	5.0	0.0
123	441.0	5.0	0.0	124	641.0	205.0	0.0	125	641.0	945.0	0.0
126	841.0	5.0	0.0	127	1138.0	5.0	0.0	128	1488.0	5.0	0.0
129	1313.0	180.0	0.0	130	1313.0	970.0	0.0	131	1810.0	5.0	0.0
132	2160.0	5.0	0.0	133	1985.0	180.0	0.0	134	1985.0	970.0	0.0
135	2482.0	1145.0	0.0	136	2657.0	970.0	0.0	137	2482.0	5.0	0.0
138	2657.0	180.0	0.0	139	2832.0	5.0	0.0	140	3154.0	5.0	0.0
141	3329.0	180.0	0.0	142	3504.0	5.0	0.0	143	3960.0	180.0	0.0
144	3785.0	1145.0	0.0	145	3154.0	1145.0	0.0	146	2832.0	1145.0	0.0
147	3329.0	970.0	0.0	148	3504.0	1145.0	0.0	149	3960.0	970.0	0.0
150	3785.0	5.0	0.0	151	841.0	1145.0	0.0	152	441.0	1145.0	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
1	5.0	1145.0	0.0	FS=2						
3	5.0	5.0	0.0	FS=1						
5	641.0	1145.0	0.0	FS=2						
7	641.0	5.0	0.0	FS=2						
9	1313.0	1145.0	0.0	FS=1						
11	1313.0	5.0	0.0	FS=1						
13	1985.0	1145.0	0.0	FS=1						
15	1985.0	5.0	0.0	FS=1						
17	2657.0	1145.0	0.0	FS=1						
19	2657.0	5.0	0.0	FS=1						
21	3329.0	1145.0	0.0	FS=1						

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
23	3329.0	5.0	0.0	FS=1						
25	3960.0	1145.0	0.0	FS=1						
27	3960.0	5.0	0.0	FS=1						



14_MOD_NUMERAZIONE_NODI

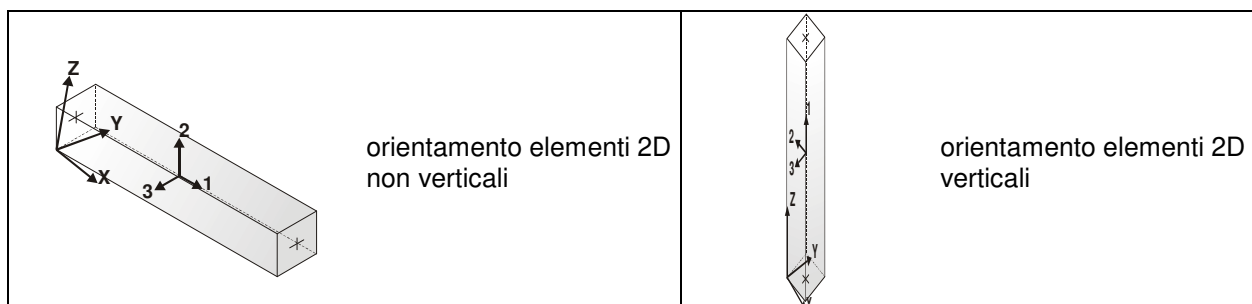
MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.

Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.

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:

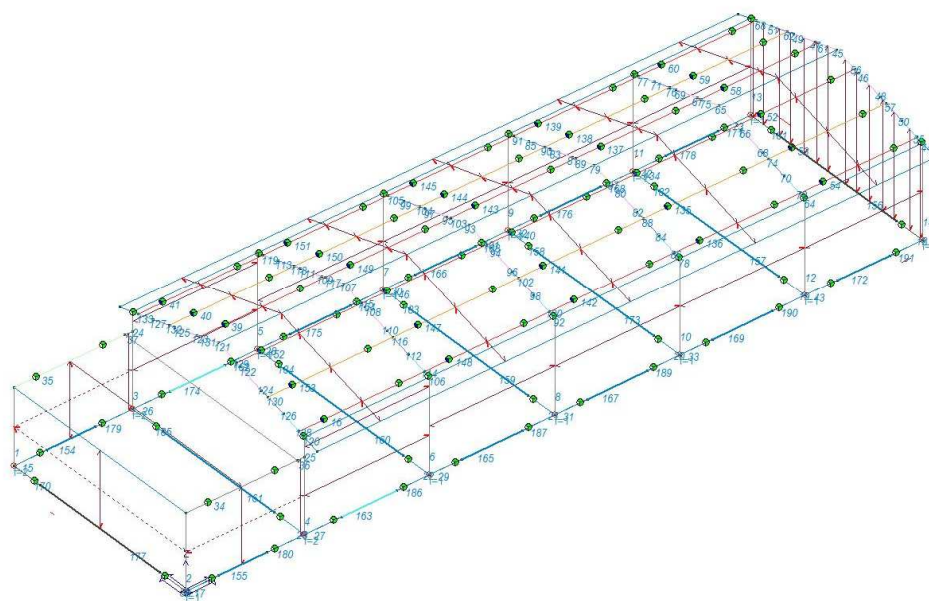
Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui

	l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
Svincolo I (J)	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

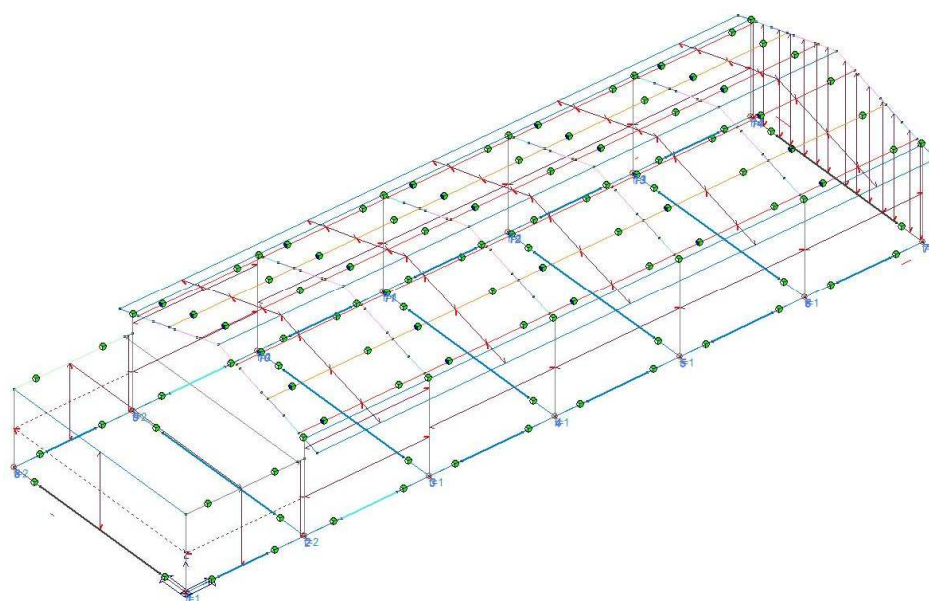
Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
							gradi			daN/cm3	daN/cm3
1	Pilas.	1	2	7	1	1					
2	Pilas.	3	4	7	1	1					
3	Pilas.	5	29	7	1	1					
4	Pilas.	7	30	7	1	1					
5	Pilas.	9	10	7	1	1					
6	Pilas.	11	12	7	1	1					
7	Pilas.	13	14	7	1	1					
8	Pilas.	15	16	7	1	1					
9	Pilas.	17	18	7	1	1					
10	Pilas.	19	20	7	1	1					
11	Pilas.	21	22	7	1	1					
12	Pilas.	23	24	7	1	1					
13	Pilas.	25	26	7	1	1					
14	Pilas.	27	28	7	1	1					
15	Trave	1	119	157	2	2			000011		
16	Trave	68	105	7	9	1	16.00	100011	000011		
17	Trave	3	122	157	2	2			000011		
18	Trave	27	143	157	11	2			000011		
19	Trave	23	141	157	2	2			000011		
20	Trave	19	138	157	2	2			000011		
21	Trave	15	133	157	2	2			000011		
22	Trave	11	129	157	2	2			000011		
23	Trave	7	124	157	2	2			000011		
24	Pilas.	29	6	7	1	1					
25	Pilas.	30	8	7	1	1					
26	Trave	5	151	157	2	2			000011		
27	Trave	7	126	157	2	2			000011		
28	Trave	9	117	157	2	2			000011		
29	Trave	11	128	157	2	2			000011		
30	Trave	13	115	157	2	2			000011		
31	Trave	15	132	157	2	2			000011		
32	Trave	17	146	157	2	2			000011		
33	Trave	19	139	157	2	2			000011		
34	Trave	4	32	1	12	1		000011	000011		
35	Trave	2	31	1	4	1		000011	000011		
36	Trave	32	30	157	3	1					
37	Trave	31	29	157	3	1					
38	Trave	3	121	157	11	2			000011		
39	Trave	102	36	7	9	1	-16.00	100011	000011		
40	Trave	57	34	7	10	1	-16.00	100011	000011		
41	Trave	59	56	7	9	1	-16.00	100011	000011		
42	Trave	21	148	157	2	2			000011		
43	Trave	23	142	157	2	2			000011		
44	Trave	28	39	10	5	1		000011			
45	Trave	37	53	10	8	1					
46	Trave	40	38	10	8	1					
47	Trave	43	44	10	7	1					
48	Trave	41	40	10	7	1					
49	Trave	44	54	10	6	1					
50	Trave	42	46	10	6	1					
51	Trave	45	55	10	5	1					
52	Trave	47	38	7	9	1	16.00	100011	000011		
53	Trave	48	46	7	10	1	16.00	100011	000011		
54	Trave	49	39	7	9	1	16.00	100011	000011		
55	Trave	39	42	10	5	1					

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
56	Trave	38	37	10	8	1					
57	Trave	46	41	10	6	1					
58	Trave	50	53	7	9	1	-16.00	100011	000011		
59	Trave	51	54	7	10	1	-16.00	100011	000011		
60	Trave	52	55	7	9	1	-16.00	100011	000011		
61	Trave	53	43	10	8	1					
62	Trave	54	45	10	6	1					
63	Trave	55	26	10	5	1			000011		
64	Trave	24	49	10	5	1		000011			
65	Trave	58	50	10	8	1					
66	Trave	61	47	10	8	1					
67	Trave	64	65	10	7	1					
68	Trave	62	61	10	7	1					
69	Trave	65	51	10	6	1					
70	Trave	63	48	10	6	1					
71	Trave	66	52	10	5	1					
72	Trave	49	63	10	5	1					
73	Trave	47	58	10	8	1					
74	Trave	48	62	10	6	1					
75	Trave	50	64	10	8	1					
76	Trave	51	66	10	6	1					
77	Trave	52	22	10	5	1			000011		
78	Trave	20	75	10	5	1		000011			
79	Trave	73	83	10	8	1					
80	Trave	76	74	10	8	1					
81	Trave	79	80	10	7	1					
82	Trave	77	76	10	7	1					
83	Trave	80	84	10	6	1					
84	Trave	78	82	10	6	1					
85	Trave	81	85	10	5	1					
86	Trave	75	78	10	5	1					
87	Trave	74	73	10	8	1					
88	Trave	82	77	10	6	1					
89	Trave	83	79	10	8	1					
90	Trave	84	81	10	6	1					
91	Trave	85	18	10	5	1			000011		
92	Trave	16	90	10	5	1		000011			
93	Trave	88	98	10	8	1					
94	Trave	91	89	10	8	1					
95	Trave	94	95	10	7	1					
96	Trave	92	91	10	7	1					
97	Trave	95	99	10	6	1					
98	Trave	93	97	10	6	1					
99	Trave	96	100	10	5	1					
100	Trave	90	93	10	5	1					
101	Trave	89	88	10	8	1					
102	Trave	97	92	10	6	1					
103	Trave	98	94	10	8	1					
104	Trave	99	96	10	6	1					
105	Trave	100	14	10	5	1			000011		
106	Trave	12	105	10	5	1		000011			
107	Trave	103	36	10	8	1					
108	Trave	106	104	10	8	1					
109	Trave	109	110	10	7	1					
110	Trave	107	106	10	7	1					
111	Trave	110	34	10	6	1					
112	Trave	108	35	10	6	1					
113	Trave	33	56	10	5	1					
114	Trave	105	108	10	5	1					
115	Trave	104	103	10	8	1					
116	Trave	35	107	10	6	1					
117	Trave	36	109	10	8	1					
118	Trave	34	33	10	6	1					
119	Trave	56	10	10	5	1			000011		
120	Trave	8	68	10	5	1		000011			
121	Trave	60	102	10	8	1					
122	Trave	69	67	10	8	1					
123	Trave	72	86	10	7	1					
124	Trave	70	69	10	7	1					
125	Trave	86	57	10	6	1					
126	Trave	71	101	10	6	1					
127	Trave	87	59	10	5	1					

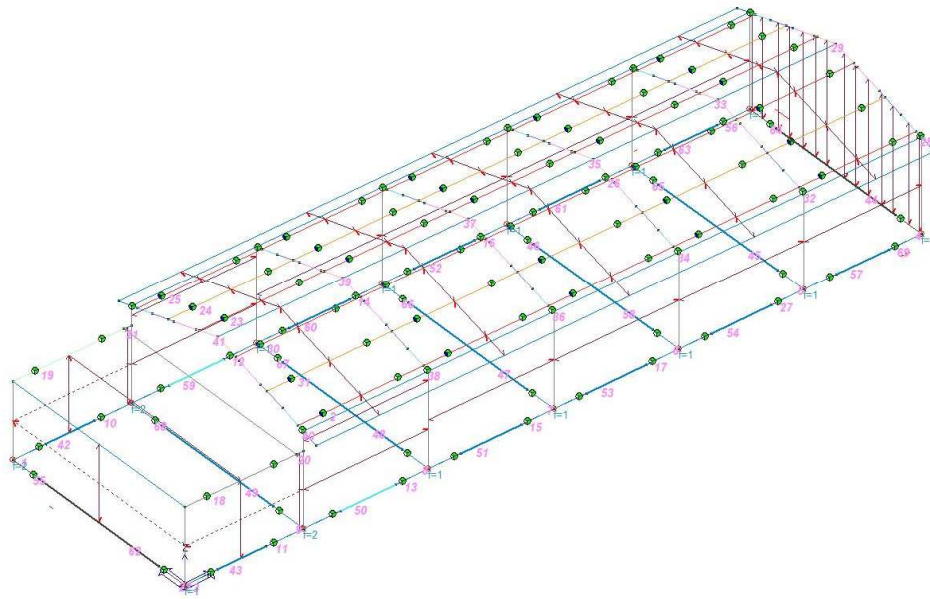
Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
128	Trave	68	71	10	5	1					
129	Trave	67	60	10	8	1					
130	Trave	101	70	10	6	1					
131	Trave	102	72	10	8	1					
132	Trave	57	87	10	6	1					
133	Trave	59	6	10	5	1			000011		
134	Trave	74	47	7	9	1	16.00	100011	000011		
135	Trave	82	48	7	10	1	16.00	100011	000011		
136	Trave	75	49	7	9	1	16.00	100011	000011		
137	Trave	83	50	7	9	1	-16.00	100011	000011		
138	Trave	84	51	7	10	1	-16.00	100011	000011		
139	Trave	85	52	7	9	1	-16.00	100011	000011		
140	Trave	89	74	7	9	1	16.00	100011	000011		
141	Trave	97	82	7	10	1	16.00	100011	000011		
142	Trave	90	75	7	9	1	16.00	100011	000011		
143	Trave	98	83	7	9	1	-16.00	100011	000011		
144	Trave	99	84	7	10	1	-16.00	100011	000011		
145	Trave	100	85	7	9	1	-16.00	100011	000011		
146	Trave	104	89	7	9	1	16.00	100011	000011		
147	Trave	35	97	7	10	1	16.00	100011	000011		
148	Trave	105	90	7	9	1	16.00	100011	000011		
149	Trave	36	98	7	9	1	-16.00	100011	000011		
150	Trave	34	99	7	10	1	-16.00	100011	000011		
151	Trave	56	100	7	9	1	-16.00	100011	000011		
152	Trave	67	104	7	9	1	16.00	100011	000011		
153	Trave	101	35	7	10	1	16.00	100011	000011		
154	Trave f.	119	152	1	2	2				0.50	0.50
155	Trave f.	122	123	1	2	2				0.50	0.50
156	Trave f.	143	149	1	11	2				1.80	1.80
157	Trave f.	141	147	1	2	2				0.50	0.50
158	Trave	136	17	157	2	2		000011			
159	Trave f.	133	134	1	2	2				0.50	0.50
160	Trave f.	129	130	1	2	2				0.50	0.50
161	Trave f.	124	125	1	2	2				0.50	0.50
162	Trave	118	9	157	2	2		000011			
163	Trave f.	126	127	1	13	4				0.50	0.50
164	Trave	116	13	157	2	2		000011			
165	Trave f.	128	131	1	2	2				0.50	0.50
166	Trave f.	115	135	1	2	2				0.50	0.50
167	Trave f.	132	137	1	2	2				0.50	0.50
168	Trave	145	21	157	2	2		000011			
169	Trave f.	139	140	1	2	2				0.50	0.50
170	Trave	120	1	157	11	2		000011			
171	Trave	144	25	157	2	2		000011			
172	Trave f.	142	150	1	2	2				0.50	0.50
173	Trave f.	138	136	1	2	2				0.50	0.50
174	Trave f.	151	118	1	13	4				0.50	0.50
175	Trave f.	117	116	1	2	2				0.50	0.50
176	Trave f.	146	145	1	2	2				0.50	0.50
177	Trave f.	121	120	1	11	2				1.80	1.80
178	Trave f.	148	144	1	2	2				0.50	0.50
179	Trave	152	5	157	2	2		000011			
180	Trave	123	7	157	2	2		000011			
181	Trave	149	25	157	11	2		000011			
182	Trave	147	21	157	2	2		000011			
183	Trave	134	13	157	2	2		000011			
184	Trave	130	9	157	2	2		000011			
185	Trave	125	5	157	2	2		000011			
186	Trave	127	11	157	2	2		000011			
187	Trave	131	15	157	2	2		000011			
188	Trave	135	17	157	2	2		000011			
189	Trave	137	19	157	2	2		000011			
190	Trave	140	23	157	2	2		000011			
191	Trave	150	27	157	2	2		000011			



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILAstrate



15_MOD_NUMERAZIONE_D2_TRAVATE

MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello. Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali. In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano. L'elemento balcone è derivato dall'elemento solaio.

I carichi agenti sugli elementi solaio, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

L'elemento pannello è utilizzato solo per l'applicazione dei carichi, quali pesi delle tamponature o spinte dovute al vento o terre. In questo caso i carichi sono applicati in analogia agli altri elementi strutturali (si veda il cap. SCHEMATIZZAZIONE DEI CASI DI CARICO).

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico Variab. Carico variabile generico Var. rid. Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) Neve Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore raro
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore frequente

Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore quasi permanente
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: per la definizione delle masse sismiche
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

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
Tipo	codice di comportamento S elemento utilizzato solo per scarico C elemento utilizzato per scarico e per modellazione piano rigido P elemento utilizzato come pannello M scarico monodirezionale B scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente solaio (comprensivo del peso proprio)
Qk	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

Nel caso in cui si sia proceduto alla progettazione dei solai con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale); nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite vengono riportati il rapporto x/d e le verifiche per sollecitazioni proporzionali nonché le verifiche in esercizio.

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
Pos.	Ascissa del punto di verifica
F ist, F infi	Frecce istantanee e a tempo infinito
Momento	Momento flettente
Taglio	Sollecitazione di taglio
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave
AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Beff	Base della sezione di cls per l'assorbimento del taglio
simboli utilizzati con il metodo delle tensioni ammissibili:	
sc max	Massima tensione di compressione del calcestruzzo
sf max	Massima tensione nell'acciaio
tau max	Massima tensione tangenziale nel cls
simboli utilizzati con il metodo degli stati limite:	
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto S_d/S_u con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
Verif.V	rapporto S_d/S_u con sollecitazioni taglianti proporzionali valore minore o uguale a 1 per verifica positiva
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione f_{ck} in combinazioni rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione f_{ck} in combinazioni frequenti [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione f_{ck} in combinazioni quasi permanenti [normalizzato a 1]

rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk 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]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinetismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

- **Tamponatura Antiespulsione ordinaria Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova.
Utilizzabile per il materiale [52].
- **Tamponatura Antiespulsione armata Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova.
Utilizzabile per il materiale [53].

La verifica è stata calibrata sulla base di prove sperimentali sul sistema di Tamponatura Antiespulsione anche in presenza di aperture.

(rif. Rapporti di Prova redatti dal Dipartimento ICEA - Università degli Studi di Padova di test sperimentali condotti sul sistema Tamponatura Antiespulsione di Cis Edil)

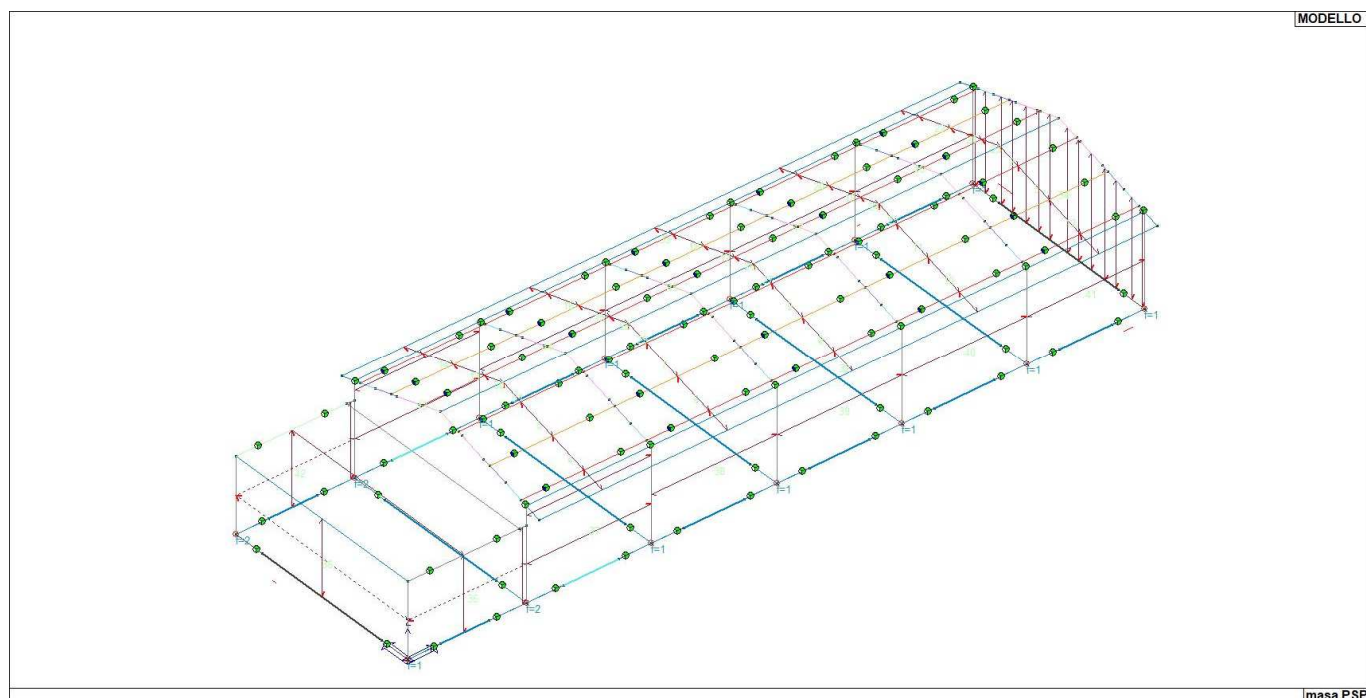
In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica
Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinetismo con formazione di cerniere plastiche in appoggio e mezzzeria
Ver. CIS	Rapporto pa/pr (valore minore o uguale a 1 per verifica positiva)
Z	Quota del baricentro dell'elemento
T1	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
Ta	Periodo proprio della parete
Sa	Accelerazione massima, adimensionalizzata allo SLV
pa	Pressione sulla parete causata dall'azione sismica
pr	Pressione resistente del meccanismo ad arco
Drift	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2018 - § 7.3.3.3
Beta a	Coef. riduttivo per tener conto del danneggiamento del piano dipendente dallo spostamento, ottenuto sperimentalmente

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/ m2	daN/ m2	daN/ m2							
1	Variab.	730.00		500.00		1.00	0.70	0.70	0.60	0.60	1.00
2	Neve	80.00		120.00		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/ m2	daN/ m2	daN/ m2					
1	CM	1	m=1	8.0	90.0	730.00		500.00	32	31	2	4	
2	SM	2	m=11	8.0	90.0	80.00		120.00	58	47	38	37	
3	SM	2	m=11	8.0	90.0	80.00		120.00	47	61	62	48	46
									41	40	38		
4	SM	2	m=11	8.0	90.0	80.00		120.00	105	108	35	101	71
									68				
5	SM	2	m=11	8.0	90.0	80.00		120.00	35	107	106	104	67
									69	70	101		
6	SM	2	m=11	8.0	90.0	80.00		120.00	90	93	97	35	108
									105				
7	SM	2	m=11	8.0	90.0	80.00		120.00	97	92	91	89	104
									106	107	35		
8	SM	2	m=11	8.0	90.0	80.00		120.00	75	78	82	97	93
									90				
9	SM	2	m=11	8.0	90.0	80.00		120.00	82	77	76	74	89
									91	92	97		
10	SM	2	m=11	8.0	90.0	80.00		120.00	49	63	48	82	78
									75				
11	SM	2	m=11	8.0	90.0	80.00		120.00	48	62	61	47	74
									76	77	82		
12	SM	2	m=11	8.0	90.0	80.00		120.00	39	42	46	48	63
									49				
13	SM	2	m=11	8.0	90.0	80.00		120.00	36	109	110	34	57
									86	72	102		
14	SM	2	m=11	8.0	90.0	80.00		120.00	34	33	56	59	87
									57				
15	SM	2	m=11	8.0	90.0	80.00		120.00	98	94	95	99	34
									110	109	36		
16	SM	2	m=11	8.0	90.0	80.00		120.00	99	96	100	56	33
									34				
17	SM	2	m=11	8.0	90.0	80.00		120.00	83	79	80	84	99
									95	94	98		
18	SM	2	m=11	8.0	90.0	80.00		120.00	84	81	85	100	96
									99				
19	SM	2	m=11	8.0	90.0	80.00		120.00	50	64	65	51	84
									80	79	83		
20	SM	2	m=11	8.0	90.0	80.00		120.00	51	66	52	85	81
									84				
21	SM	2	m=11	8.0	90.0	80.00		120.00	53	43	44	54	51
									65	64	50		
22	SM	2	m=11	8.0	90.0	80.00		120.00	54	45	55	52	66
									51				
23	SM	2	m=11	8.0	90.0	80.00		120.00	37	53	50	58	
24	SM	2	m=11	8.0	90.0	80.00		120.00	50	83	73	58	
25	SM	2	m=11	8.0	90.0	80.00		120.00	73	74	47	58	
26	SM	2	m=11	8.0	90.0	80.00		120.00	83	98	88	73	
27	SM	2	m=11	8.0	90.0	80.00		120.00	88	89	74	73	
28	SM	2	m=11	8.0	90.0	80.00		120.00	98	36	103	88	
29	SM	2	m=11	8.0	90.0	80.00		120.00	103	104	89	88	
30	SM	2	m=11	8.0	90.0	80.00		120.00	36	102	60	103	
31	SM	2	m=11	8.0	90.0	80.00		120.00	104	103	60	67	
32	SM	2	m=11	8.0	90.0	80.00		120.00	49	75	90	105	68
									113	114	39		
33	SM	2	m=11	8.0	90.0	80.00		120.00	112	59	56	100	85
									52	55	111		
34	PM		m=158	18.0	90.0				25	26	55	45	54
									44	43	53	37	38
									40	41	46	42	39
									28	27			
35	PB		m=158	18.0	90.0				7	3	4	32	30
36	PB		m=158	18.0	90.0				4	3	1	2	
37	PM		m=158	18.0	0.0				11	7	30	8	12
38	PM		m=158	18.0	0.0				12	16	15	11	
39	PM		m=158	18.0	0.0				16	20	19	15	
40	PM		m=158	18.0	0.0				20	24	23	19	
41	PM		m=158	18.0	0.0				24	28	27	23	
42	PB		m=158	18.0	90.0				5	1	2	31	29
43	PM		m=158	18.0	0.0				9	5	29	6	10
44	PM		m=158	18.0	0.0				10	14	13	9	
45	PM		m=158	18.0	0.0				14	18	17	13	

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
46	PM		m=158	18.0	0.0				22	26	25	21	
47	PM		m=158	18.0	0.0				18	22	21	17	



17_MOD_NUMERAZIONE_SOLAI

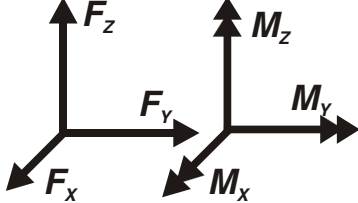
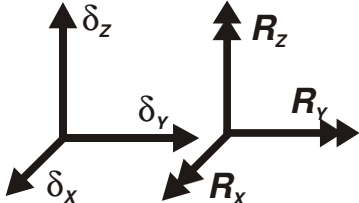
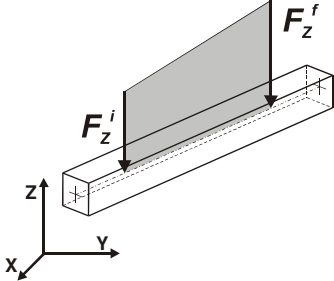
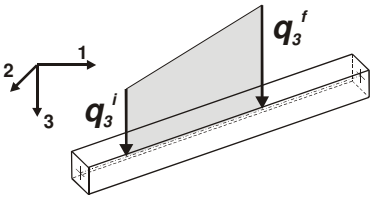
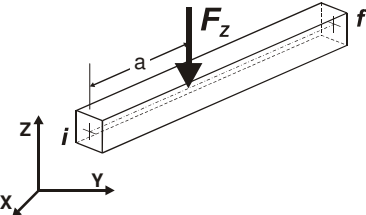
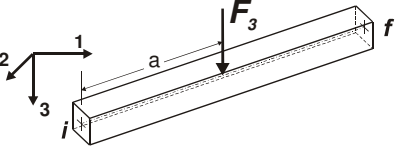
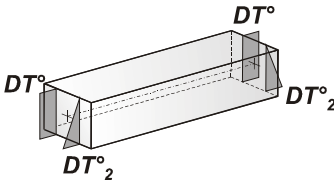
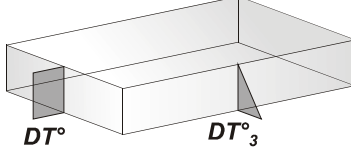
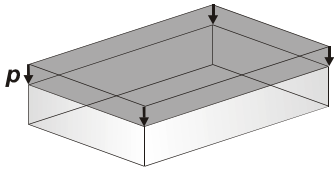
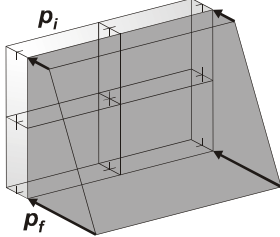
MODELLAZIONE DELLE AZIONI

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 Fx, Fy, Fz, momento Mx, My, Mz)
2	spostamento nodale impresso 6 dati (spostamento Tx, Ty, Tz, rotazione Rx, Ry, Rz)
3	carico distribuito globale su elemento tipo trave 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati (F1, F2, F3, M1, M2, M3, 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)

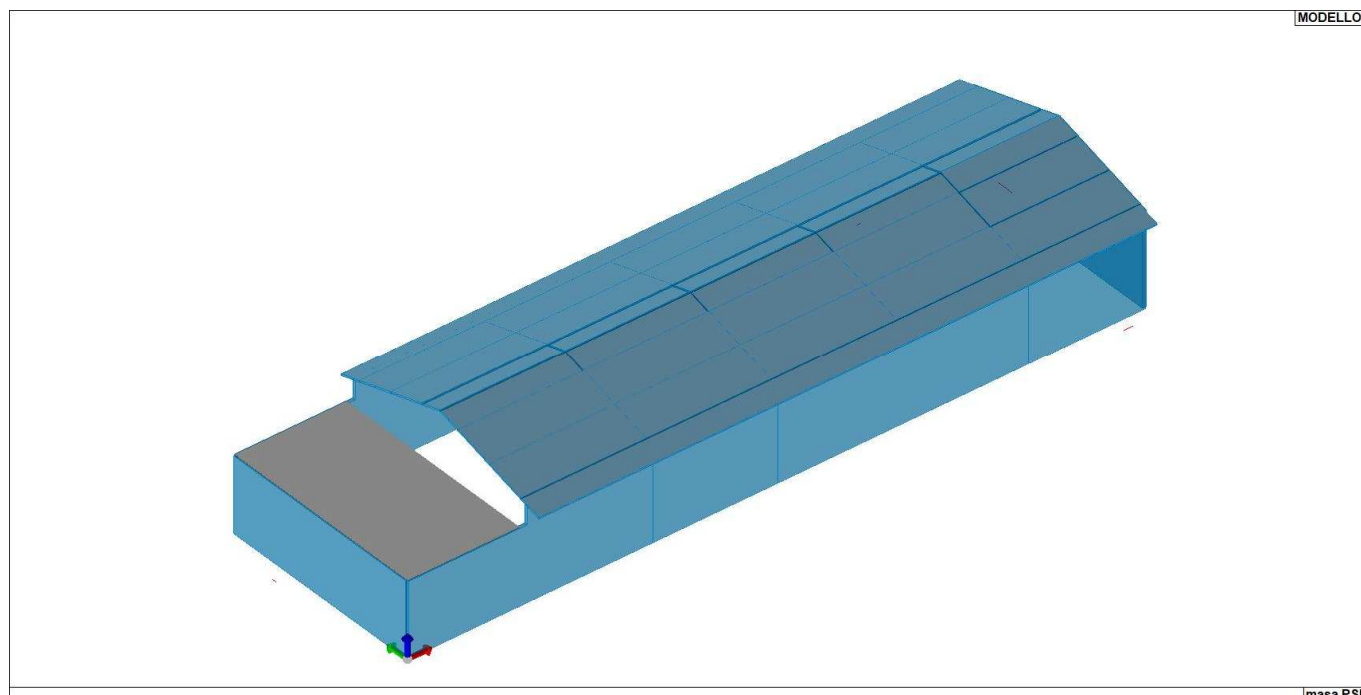
9	carico di pressione variabile su elemento tipo piastra 4 dati (pressione, quota, pressione, quota)
10	variazione termica applicata ad elemento tipo piastra 2 dati (variazioni termiche: media e differenza nello spessore)
11	carico variabile generale su elementi tipo trave e piastra 1 dato descrizione 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)

 <p>Carico concentrato nodale</p>	 <p>Spostamento impresso</p>
 <p>Carico distribuito globale</p>	 <p>Carico distribuito locale</p>
 <p>Carico concentrato globale</p>	 <p>Carico concentrato locale</p>
 <p>Carico termico 2D</p>	 <p>Carico termico 3D</p>
 <p>Carico pressione uniforme</p>	 <p>Carico pressione variabile</p>

Tipo carico distribuito globale su trave

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
1	Ggk trave boomerang-DG:Fzi=-6.50 Fzf=-6.50	0.0	0.0	0.0	-650.00	0.0	0.0	0.0

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		0.0	0.0	0.0	-650.00	0.0	0.0	0.0



21_CAR_CARICHI_SOLAI

SCHEMATIZZAZIONE DEI CASI DI CARICO

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.

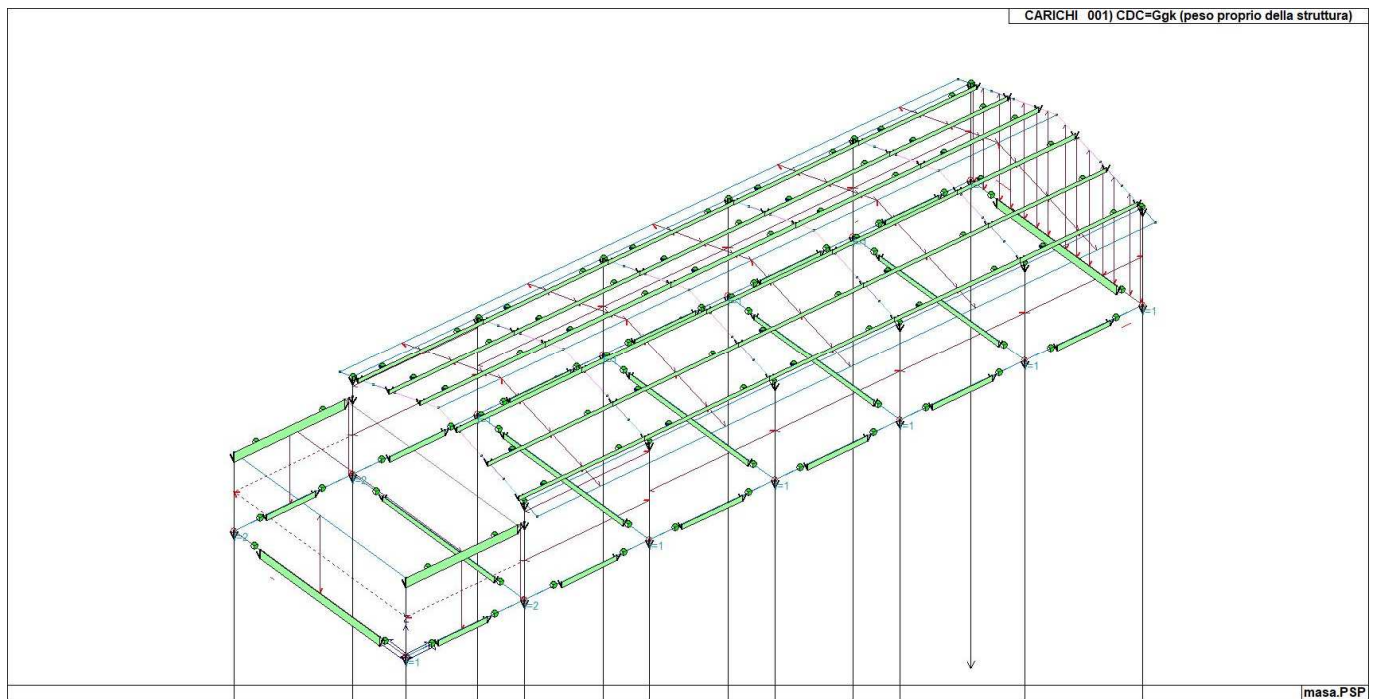
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

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

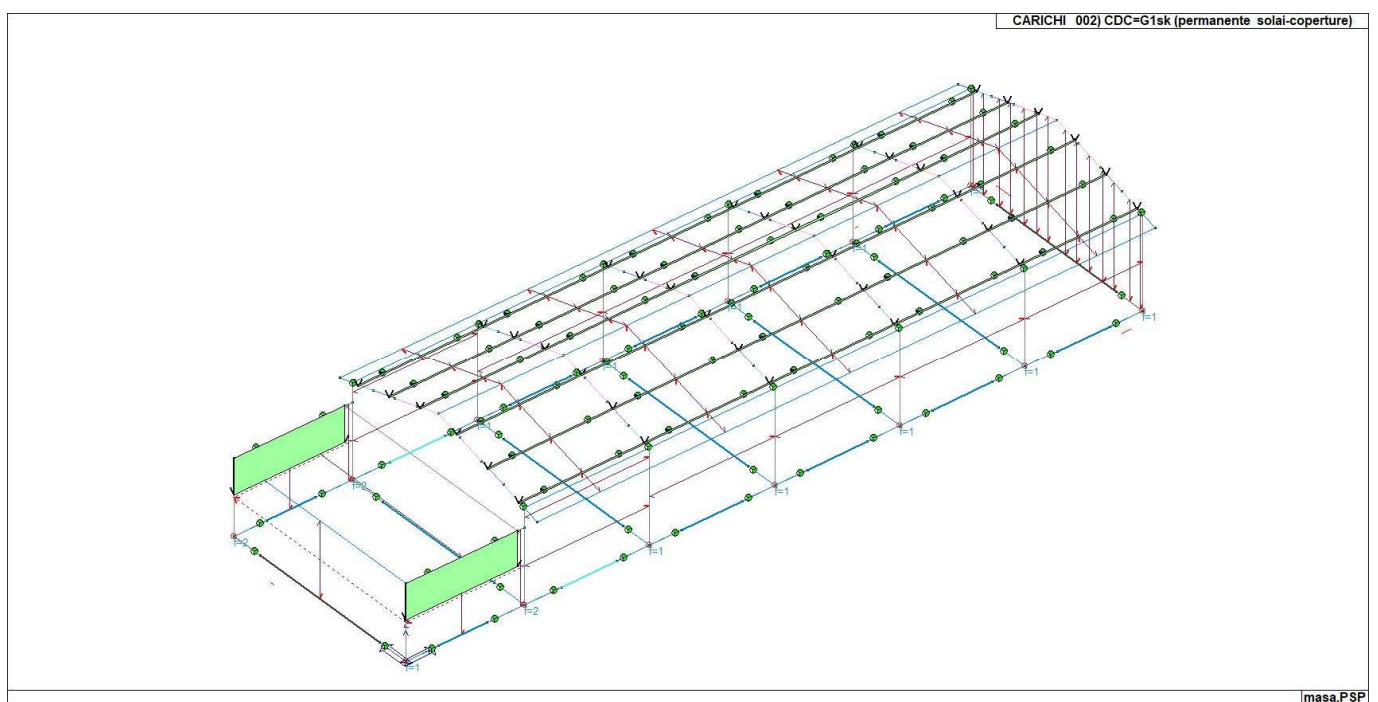
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

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.

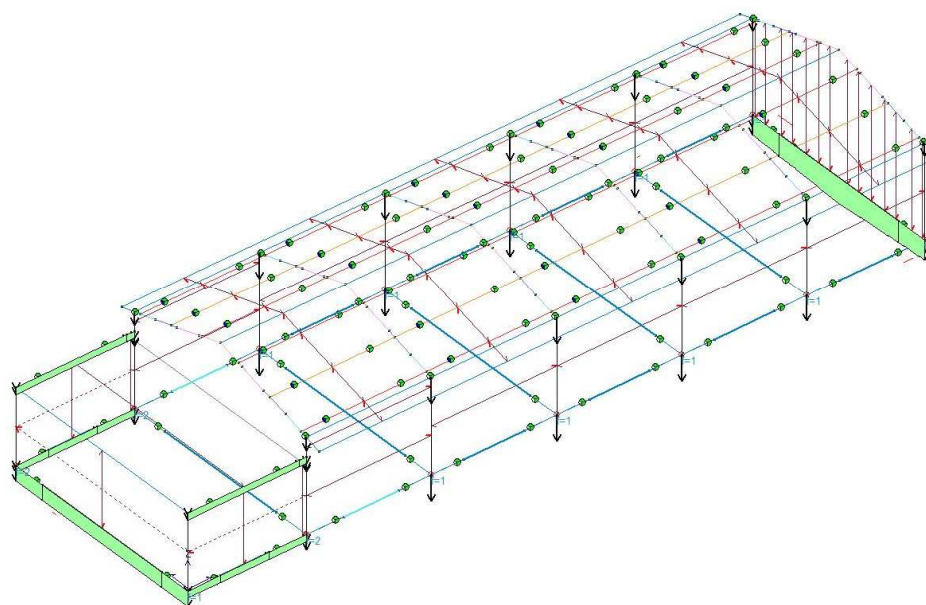
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2pk (permanente pannelli n.c.d.)	
4	Qsk	CDC=Qsk (variabile solai)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2pk (permanente pannelli n.c.d.)
			partecipazione:1.00 per 4 CDC=Qsk (variabile solai)
			partecipazione:1.00 per 5 CDC=Qnk (carico da neve)
			partecipazione:1.00 per 15 CDC=G1k (peso proprio trave boomerang)
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
14	Edk	CDC=Ed (dinamico SLU) verticale	come precedente CDC sismico
15	Gk	CDC=G1k (peso proprio trave boomerang)	Azioni applicate:
			D2 :da 44 a 51 Azione : Ggk trave boomerang-DG:Fzi=-6.50 Fzf=-6.50
			D2 :da 55 a 57 Azione : Ggk trave boomerang-DG:Fzi=-6.50 Fzf=-6.50
			D2 :da 61 a 133 Azione : Ggk trave boomerang-DG:Fzi=-6.50 Fzf=-6.50



22_CDC_001_CDC=Ggk (peso proprio della struttura)

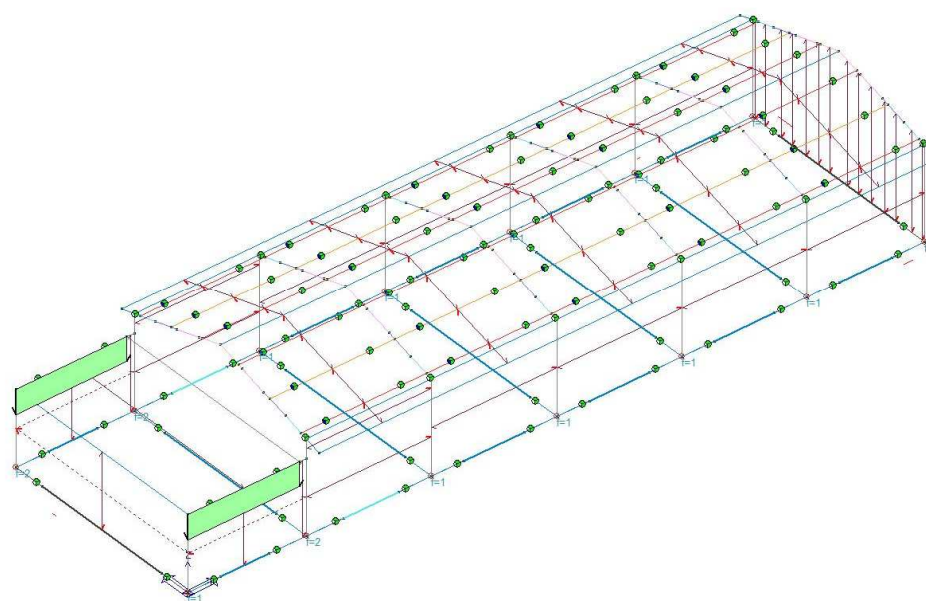


22_CDC_002_CDC=G1sk (permanente solai-coperture)



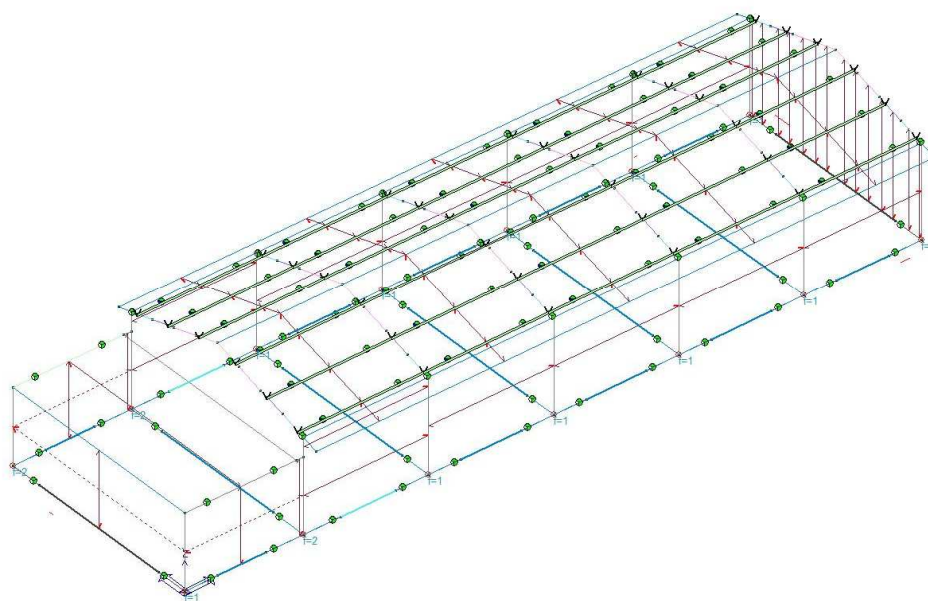
masa.PSP

22_CDC_003_CDC=G2pk (permanente pannelli n.c.d.)



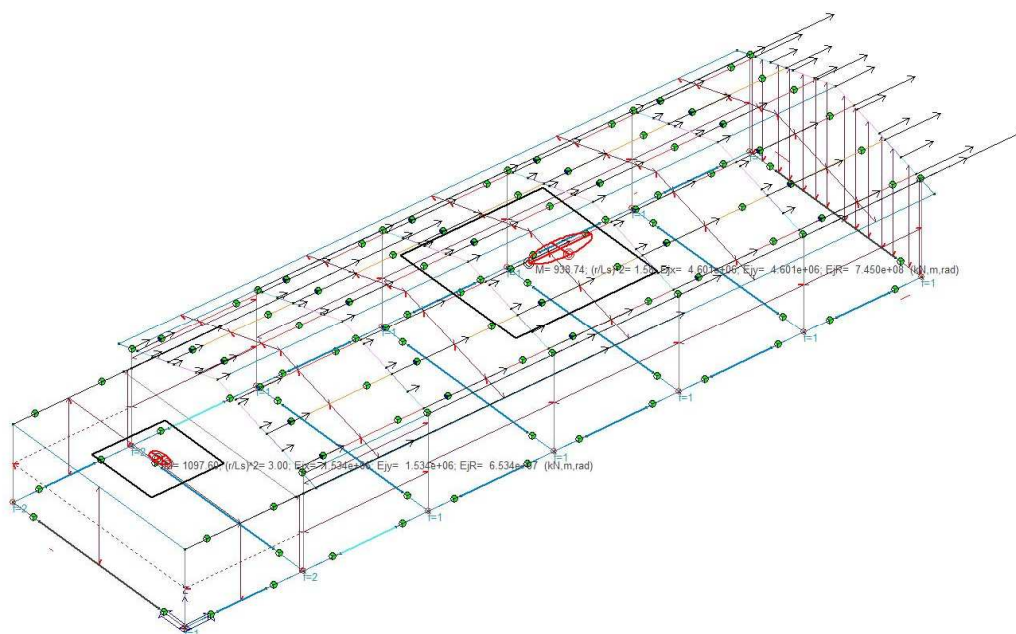
masa.PSP

22_CDC_004_CDC=Qsk (variabile solai)



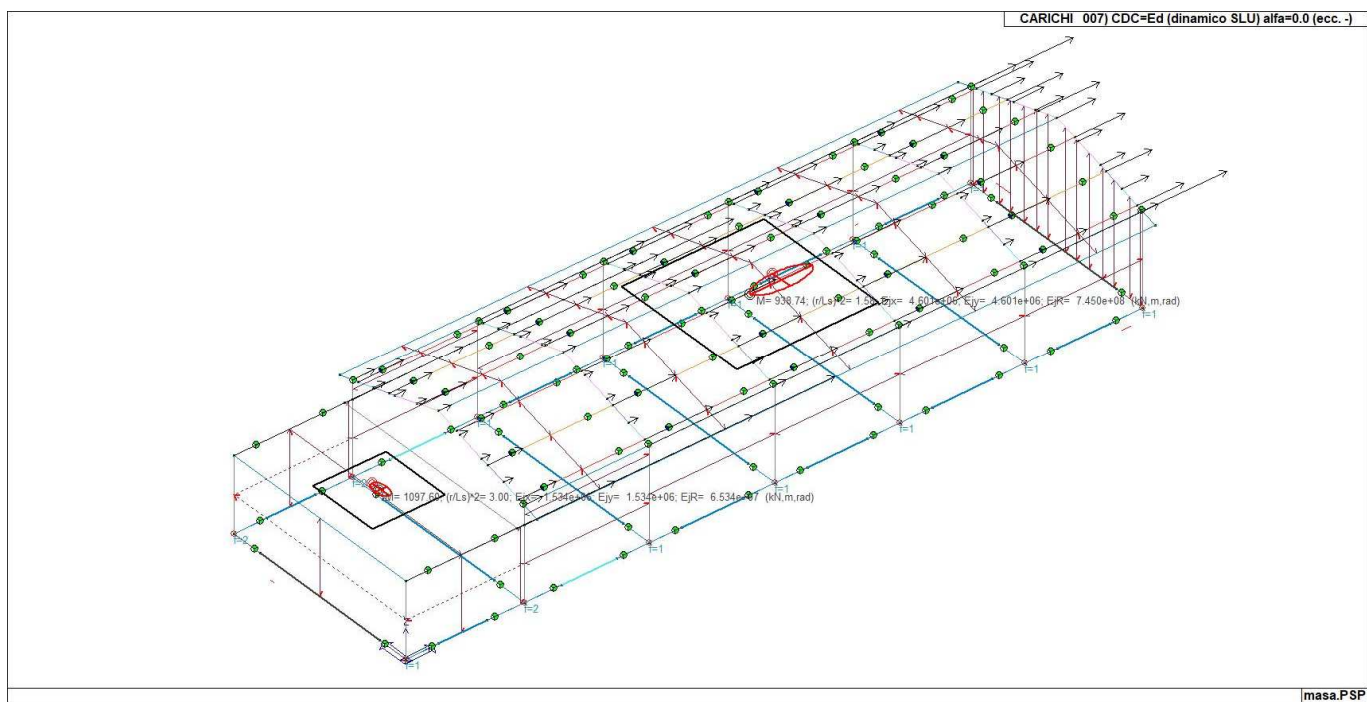
masa.PSP

22_CDC_005_CDC=Qnk (carico da neve)

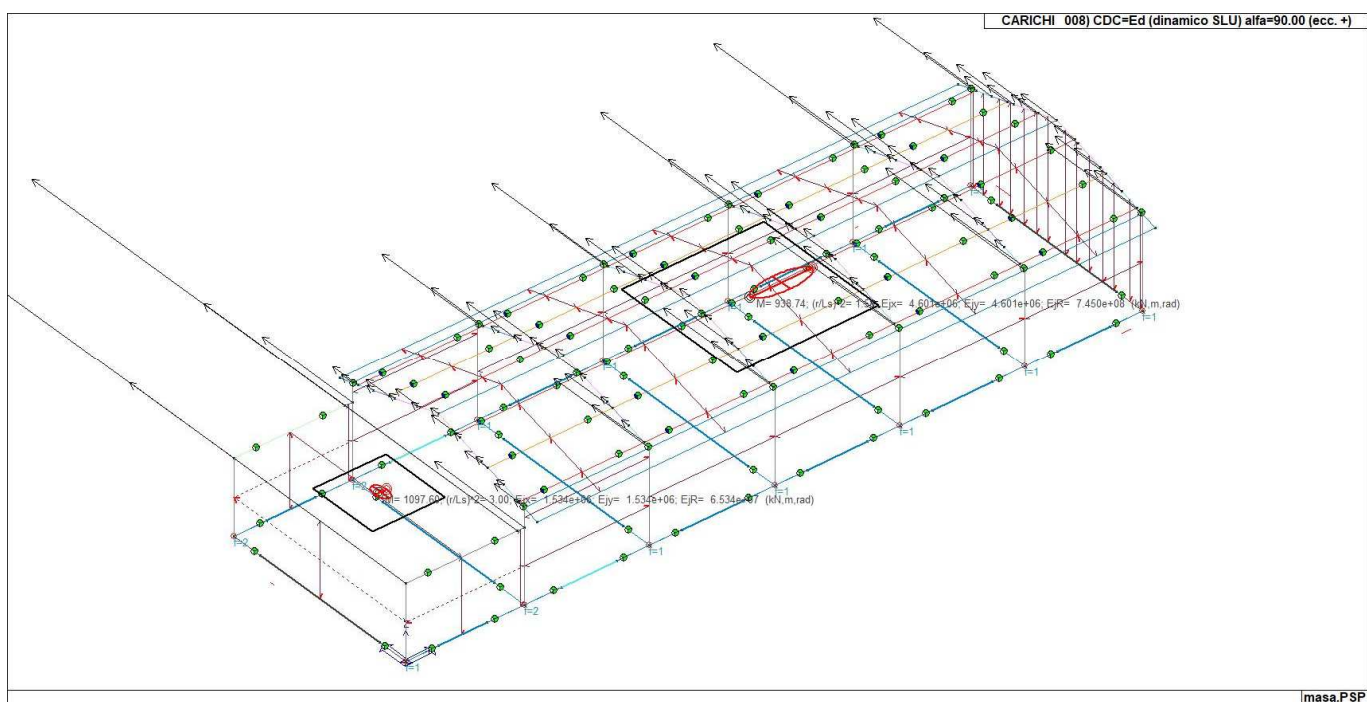


masa.PSP

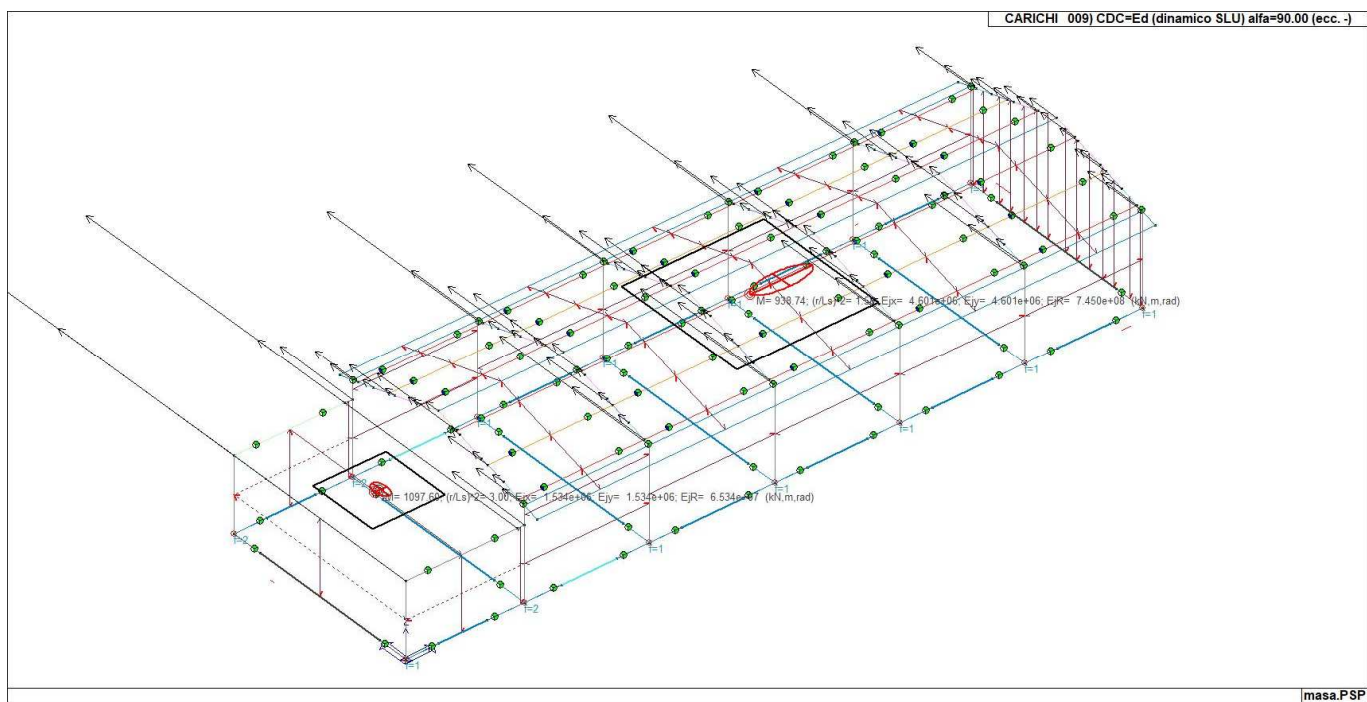
22_CDC_006_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)



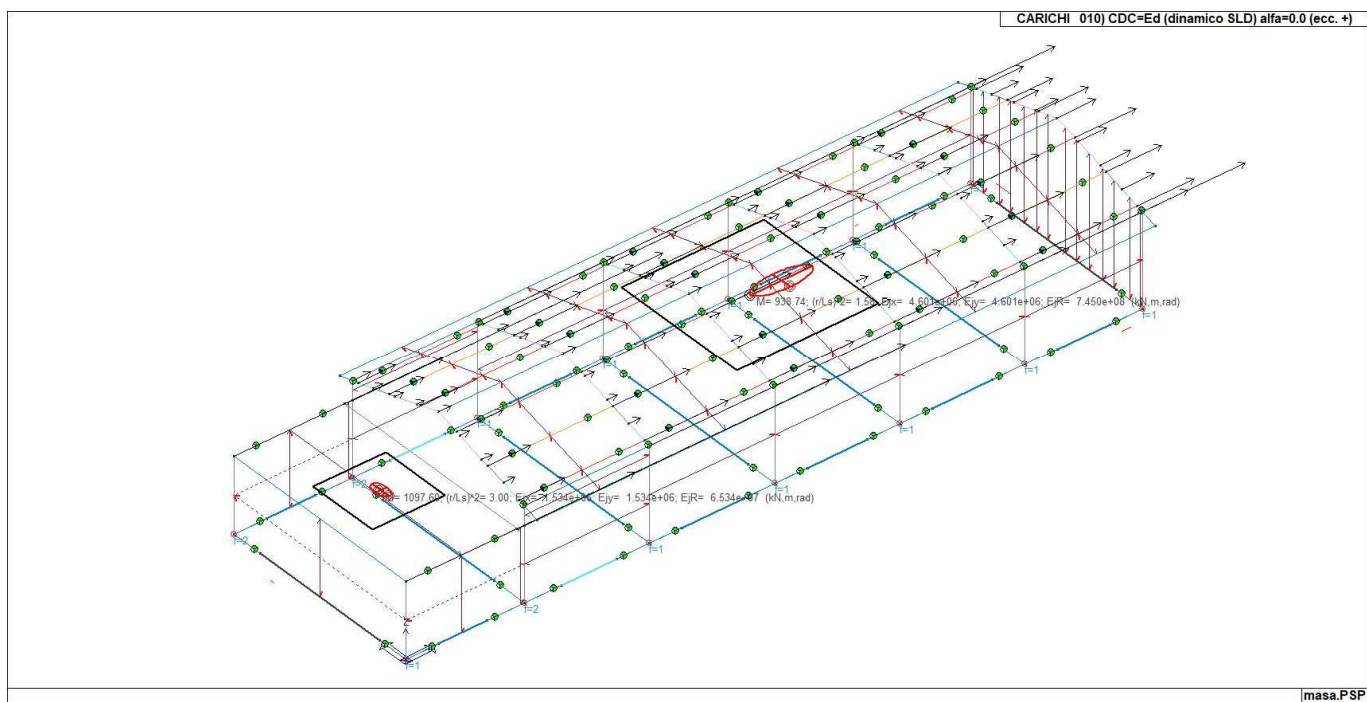
22_CDC_007_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)



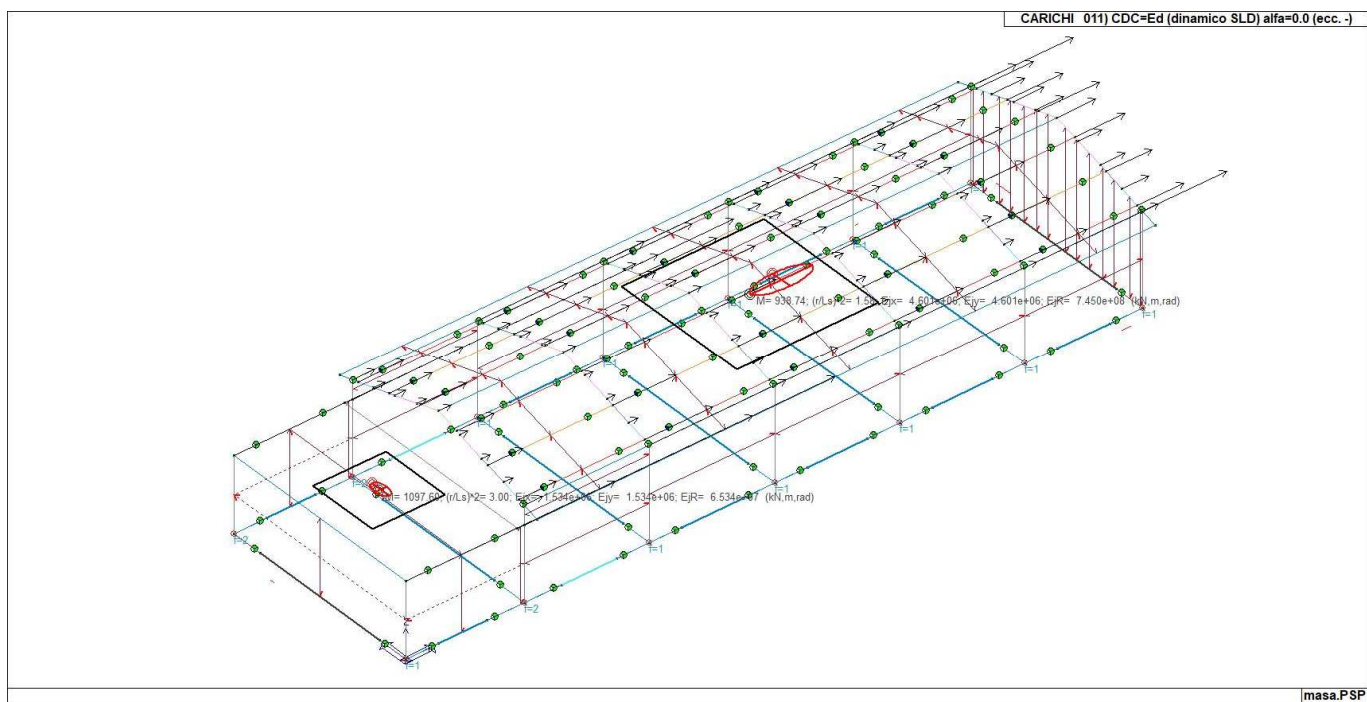
22_CDC_008_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)



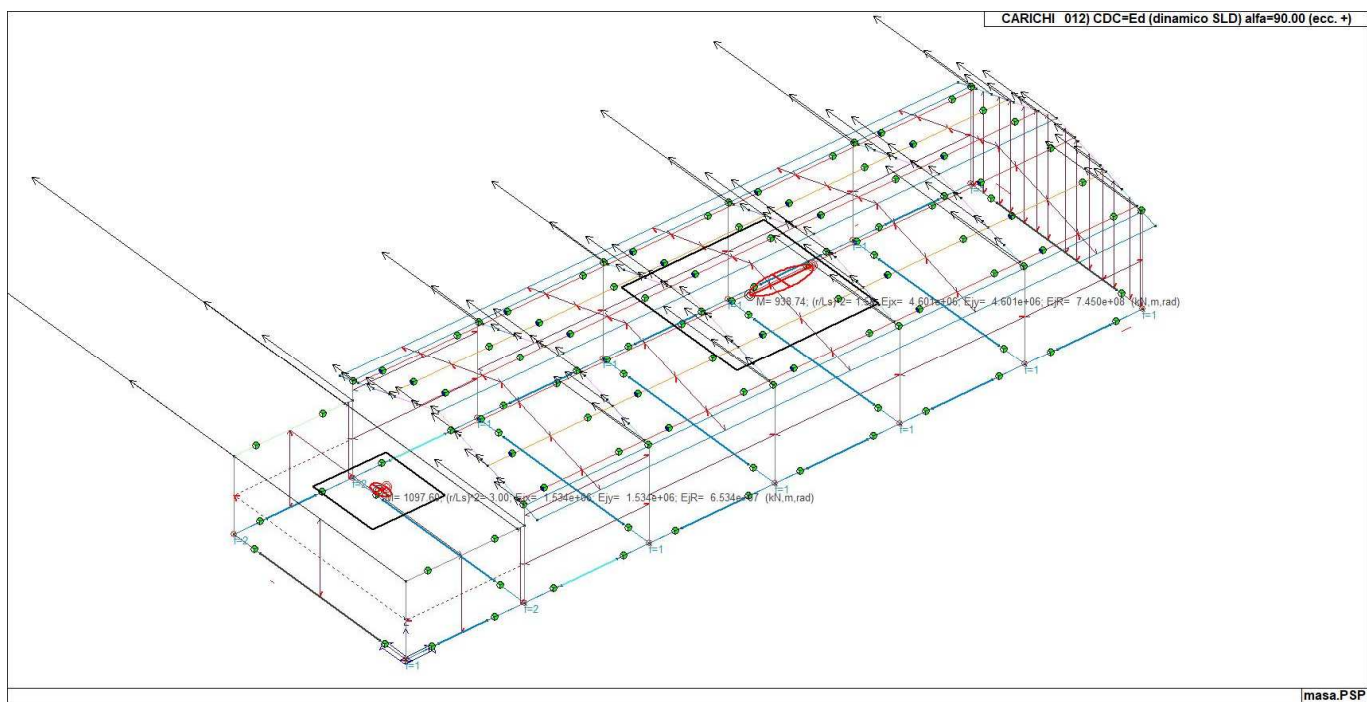
22_CDC_009_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)



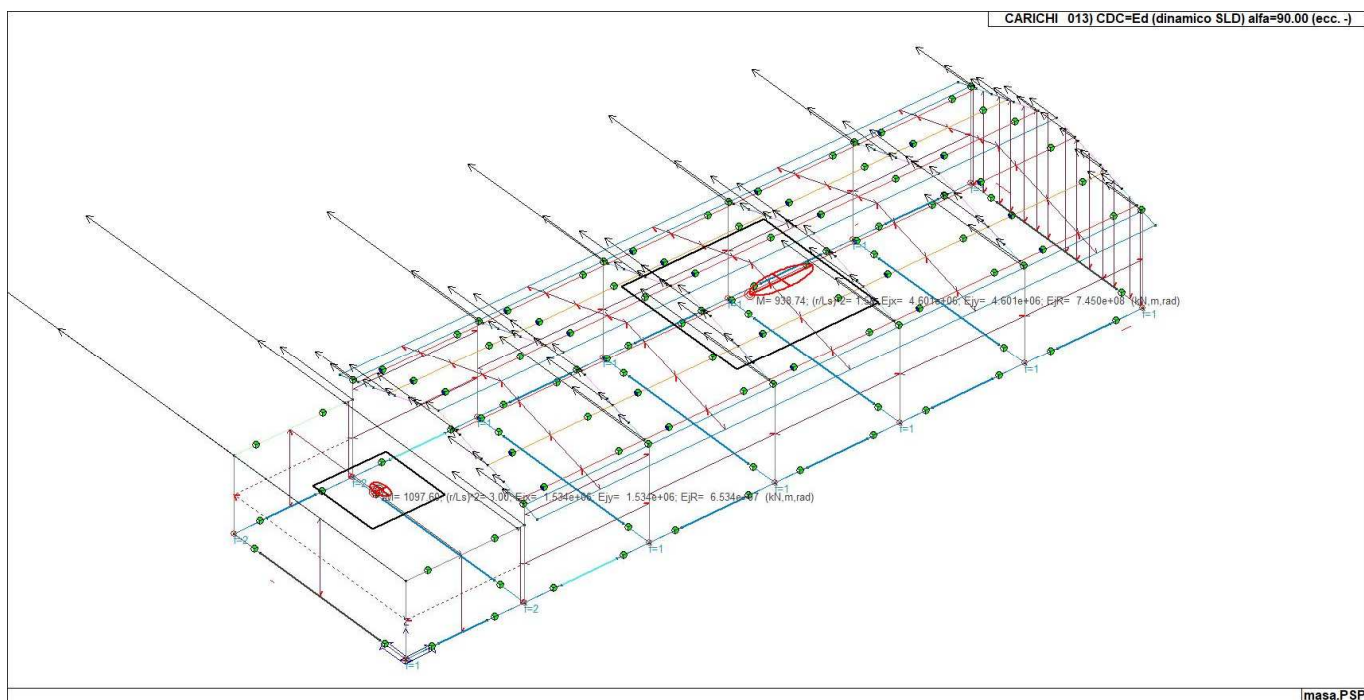
22_CDC_010_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)



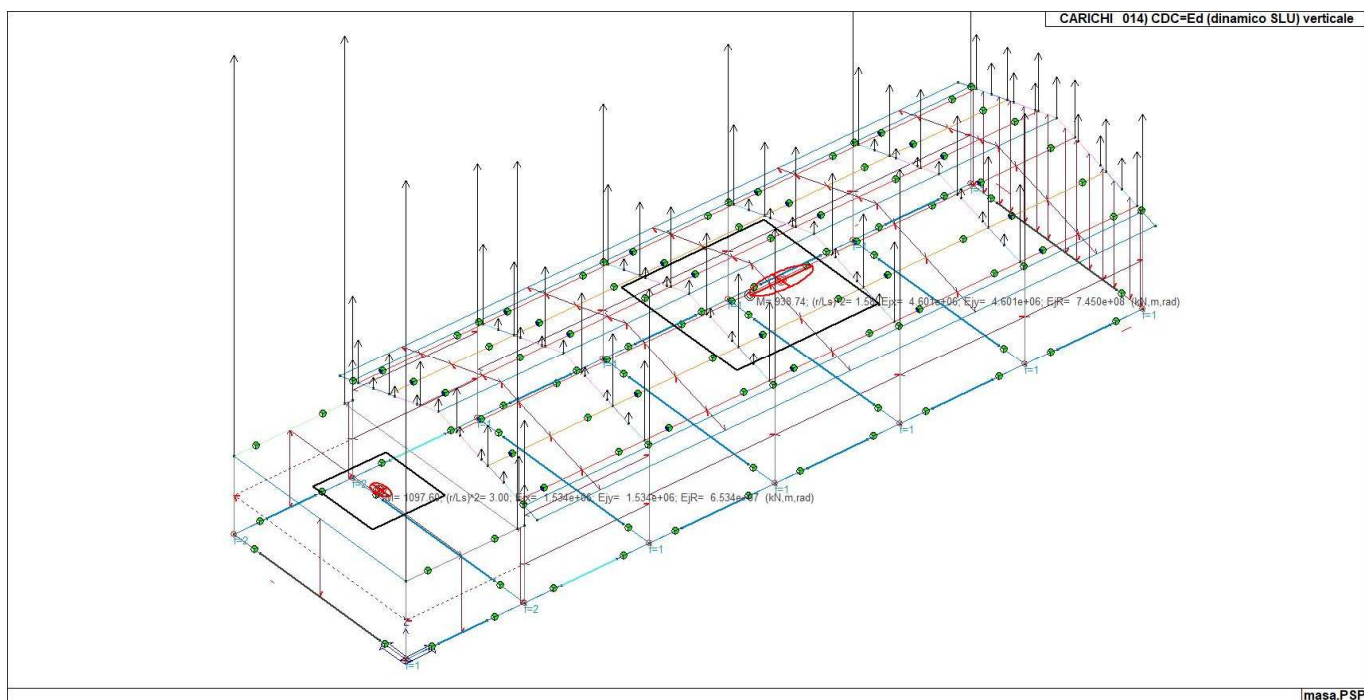
22_CDC_011_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)



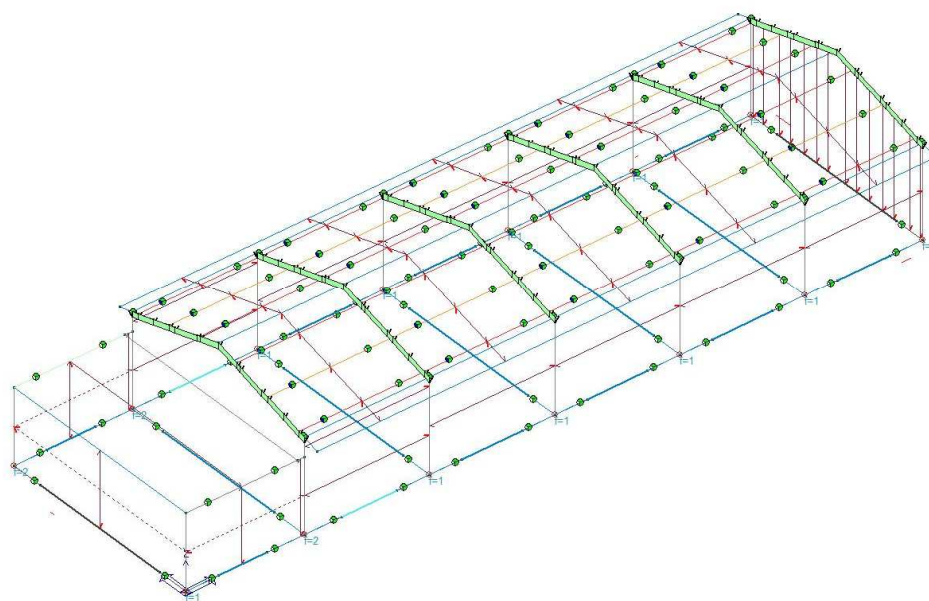
22_CDC_012_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)



22_CDC_013_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)



22_CDC_014_CDC=Ed (dinamico SLU) verticale



masa.PSP

22_CDC_015_CDC=G1k (peso proprio trave boomerang)

DEFINIZIONE DELLE COMBINAZIONI

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

$$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi02 \cdot Qk2 + \gamma Q3 \cdot \psi03 \cdot Qk3 + \dots$$

Combinazione caratteristica (rara) SLE

$$G1 + G2 + P + Qk1 + \psi02 \cdot Qk2 + \psi03 \cdot Qk3 + \dots$$

Combinazione frequente SLE

$$G1 + G2 + P + \psi11 \cdot Qk1 + \psi22 \cdot Qk2 + \psi23 \cdot Qk3 + \dots$$

Combinazione quasi permanente SLE

$$G1 + G2 + P + \psi21 \cdot Qk1 + \psi22 \cdot Qk2 + \psi23 \cdot Qk3 + \dots$$

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

$$E + G1 + G2 + P + \psi21 \cdot Qk1 + \psi22 \cdot Qk2 + \dots$$

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

$$G1 + G2 + Ad + P + \psi21 \cdot Qk1 + \psi22 \cdot Qk2 + \dots$$

Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	$\psi0$	$\psi1$	$\psi2$
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

<i>Categoria F Rimesse e parcheggi (autoveicoli ≤ 30kN)</i>	0,70	0,70	0,60
<i>Categoria G Rimesse e parcheggi (autoveicoli > 30kN)</i>	0,70	0,50	0,30
<i>Categoria H Coperture</i>	0,00	0,00	0,00
<i>Vento</i>	0,60	0,20	0,00
<i>Neve a quota ≤ 1000 m</i>	0,50	0,20	0,00
<i>Neve a quota > 1000 m</i>	0,70	0,50	0,20
<i>Variazioni Termiche</i>	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.I

		Coefficiente γ_f	EQU	A1	A2
<i>Carichi permanenti</i>	<i>Favorevoli</i>	γ_{G1}	0,9	1,0	1,0
	<i>Sfavorevoli</i>		1,1	1,3	1,0
<i>Carichi permanenti non strutturali</i> <i>(Non compiutamente definiti)</i>	<i>Favorevoli</i>	γ_{G2}	0,8	0,8	0,8
	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	γ_{Qi}	0,0	0,0	0,0
	<i>Sfavorevoli</i>		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	SLE(r)	Comb. SLE(rara) 15	
16	SLE(r)	Comb. SLE(rara) 16	
17	SLE(r)	Comb. SLE(rara) 17	
18	SLE(r)	Comb. SLE(rara) 18	
19	SLE(r)	Comb. SLE(rara) 19	
20	SLE(r)	Comb. SLE(rara) 20	
21	SLE(r)	Comb. SLE(rara) 21	
22	SLE(f)	Comb. SLE(freq.) 22	
23	SLE(f)	Comb. SLE(freq.) 23	
24	SLE(f)	Comb. SLE(freq.) 24	
25	SLE(f)	Comb. SLE(freq.) 25	
26	SLE(f)	Comb. SLE(freq.) 26	
27	SLE(p)	Comb. SLE(perm.) 27	
28	SLE(p)	Comb. SLE(perm.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	SI
30	SLU	Comb. SLU A1 (SLV sism.) 30	SI
31	SLU	Comb. SLU A1 (SLV sism.) 31	SI
32	SLU	Comb. SLU A1 (SLV sism.) 32	SI
33	SLU	Comb. SLU A1 (SLV sism.) 33	SI
34	SLU	Comb. SLU A1 (SLV sism.) 34	SI
35	SLU	Comb. SLU A1 (SLV sism.) 35	SI
36	SLU	Comb. SLU A1 (SLV sism.) 36	SI
37	SLU	Comb. SLU A1 (SLV sism.) 37	SI
38	SLU	Comb. SLU A1 (SLV sism.) 38	SI

Cmb	Tipo	Sigla Id	effetto P-delta
39	SLU	Comb. SLU A1 (SLV sism.) 39	SI
40	SLU	Comb. SLU A1 (SLV sism.) 40	SI
41	SLU	Comb. SLU A1 (SLV sism.) 41	SI
42	SLU	Comb. SLU A1 (SLV sism.) 42	SI
43	SLU	Comb. SLU A1 (SLV sism.) 43	SI
44	SLU	Comb. SLU A1 (SLV sism.) 44	SI
45	SLU	Comb. SLU A1 (SLV sism.) 45	SI
46	SLU	Comb. SLU A1 (SLV sism.) 46	SI
47	SLU	Comb. SLU A1 (SLV sism.) 47	SI
48	SLU	Comb. SLU A1 (SLV sism.) 48	SI
49	SLU	Comb. SLU A1 (SLV sism.) 49	SI
50	SLU	Comb. SLU A1 (SLV sism.) 50	SI
51	SLU	Comb. SLU A1 (SLV sism.) 51	SI
52	SLU	Comb. SLU A1 (SLV sism.) 52	SI
53	SLU	Comb. SLU A1 (SLV sism.) 53	SI
54	SLU	Comb. SLU A1 (SLV sism.) 54	SI
55	SLU	Comb. SLU A1 (SLV sism.) 55	SI
56	SLU	Comb. SLU A1 (SLV sism.) 56	SI
57	SLU	Comb. SLU A1 (SLV sism.) 57	SI
58	SLU	Comb. SLU A1 (SLV sism.) 58	SI
59	SLU	Comb. SLU A1 (SLV sism.) 59	SI
60	SLU	Comb. SLU A1 (SLV sism.) 60	SI
61	SLU	Comb. SLU A1 (SLV sism.) 61	SI
62	SLU	Comb. SLU A1 (SLV sism.) 62	SI
63	SLU	Comb. SLU A1 (SLV sism.) 63	SI
64	SLU	Comb. SLU A1 (SLV sism.) 64	SI
65	SLU	Comb. SLU A1 (SLV sism.) 65	SI
66	SLU	Comb. SLU A1 (SLV sism.) 66	SI
67	SLU	Comb. SLU A1 (SLV sism.) 67	SI
68	SLU	Comb. SLU A1 (SLV sism.) 68	SI
69	SLU	Comb. SLU A1 (SLV sism.) 69	SI
70	SLU	Comb. SLU A1 (SLV sism.) 70	SI
71	SLU	Comb. SLU A1 (SLV sism.) 71	SI
72	SLU	Comb. SLU A1 (SLV sism.) 72	SI
73	SLU	Comb. SLU A1 (SLV sism.) 73	SI
74	SLU	Comb. SLU A1 (SLV sism.) 74	SI
75	SLU	Comb. SLU A1 (SLV sism.) 75	SI
76	SLU	Comb. SLU A1 (SLV sism.) 76	SI
77	SLU	Comb. SLU A1 (SLV sism.) 77	SI
78	SLU	Comb. SLU A1 (SLV sism.) 78	SI
79	SLU	Comb. SLU A1 (SLV sism.) 79	SI
80	SLU	Comb. SLU A1 (SLV sism.) 80	SI
81	SLU	Comb. SLU A1 (SLV sism.) 81	SI
82	SLU	Comb. SLU A1 (SLV sism.) 82	SI
83	SLU	Comb. SLU A1 (SLV sism.) 83	SI
84	SLU	Comb. SLU A1 (SLV sism.) 84	SI
85	SLU	Comb. SLU A1 (SLV sism.) 85	SI
86	SLU	Comb. SLU A1 (SLV sism.) 86	SI
87	SLU	Comb. SLU A1 (SLV sism.) 87	SI
88	SLU	Comb. SLU A1 (SLV sism.) 88	SI
89	SLU	Comb. SLU A1 (SLV sism.) 89	SI
90	SLU	Comb. SLU A1 (SLV sism.) 90	SI
91	SLU	Comb. SLU A1 (SLV sism.) 91	SI
92	SLU	Comb. SLU A1 (SLV sism.) 92	SI
93	SLD(sis)	Comb. SLE (SLD Danno sism.) 93	SI
94	SLD(sis)	Comb. SLE (SLD Danno sism.) 94	SI
95	SLD(sis)	Comb. SLE (SLD Danno sism.) 95	SI
96	SLD(sis)	Comb. SLE (SLD Danno sism.) 96	SI
97	SLD(sis)	Comb. SLE (SLD Danno sism.) 97	SI
98	SLD(sis)	Comb. SLE (SLD Danno sism.) 98	SI
99	SLD(sis)	Comb. SLE (SLD Danno sism.) 99	SI
100	SLD(sis)	Comb. SLE (SLD Danno sism.) 100	SI
101	SLD(sis)	Comb. SLE (SLD Danno sism.) 101	SI
102	SLD(sis)	Comb. SLE (SLD Danno sism.) 102	SI
103	SLD(sis)	Comb. SLE (SLD Danno sism.) 103	SI
104	SLD(sis)	Comb. SLE (SLD Danno sism.) 104	SI
105	SLD(sis)	Comb. SLE (SLD Danno sism.) 105	SI
106	SLD(sis)	Comb. SLE (SLD Danno sism.) 106	SI
107	SLD(sis)	Comb. SLE (SLD Danno sism.) 107	SI
108	SLD(sis)	Comb. SLE (SLD Danno sism.) 108	SI
109	SLD(sis)	Comb. SLE (SLD Danno sism.) 109	SI
110	SLD(sis)	Comb. SLE (SLD Danno sism.) 110	SI

Cmb	Tipo	Sigla Id	effetto P-delta
111	SLD(sis)	Comb. SLE (SLD Danno sism.) 111	SI
112	SLD(sis)	Comb. SLE (SLD Danno sism.) 112	SI
113	SLD(sis)	Comb. SLE (SLD Danno sism.) 113	SI
114	SLD(sis)	Comb. SLE (SLD Danno sism.) 114	SI
115	SLD(sis)	Comb. SLE (SLD Danno sism.) 115	SI
116	SLD(sis)	Comb. SLE (SLD Danno sism.) 116	SI
117	SLD(sis)	Comb. SLE (SLD Danno sism.) 117	SI
118	SLD(sis)	Comb. SLE (SLD Danno sism.) 118	SI
119	SLD(sis)	Comb. SLE (SLD Danno sism.) 119	SI
120	SLD(sis)	Comb. SLE (SLD Danno sism.) 120	SI
121	SLD(sis)	Comb. SLE (SLD Danno sism.) 121	SI
122	SLD(sis)	Comb. SLE (SLD Danno sism.) 122	SI
123	SLD(sis)	Comb. SLE (SLD Danno sism.) 123	SI
124	SLD(sis)	Comb. SLE (SLD Danno sism.) 124	SI
125	SLU	Comb. SLU A1 (SLV sism.) 125	SI
126	SLU	Comb. SLU A1 (SLV sism.) 126	SI
127	SLU	Comb. SLU A1 (SLV sism.) 127	SI
128	SLU	Comb. SLU A1 (SLV sism.) 128	SI
129	SLU	Comb. SLU A1 (SLV sism.) 129	SI
130	SLU	Comb. SLU A1 (SLV sism.) 130	SI
131	SLU	Comb. SLU A1 (SLV sism.) 131	SI
132	SLU	Comb. SLU A1 (SLV sism.) 132	SI
133	SLU	Comb. SLU A1 (SLV sism.) 133	SI
134	SLU	Comb. SLU A1 (SLV sism.) 134	SI
135	SLU	Comb. SLU A1 (SLV sism.) 135	SI
136	SLU	Comb. SLU A1 (SLV sism.) 136	SI
137	SLU	Comb. SLU A1 (SLV sism.) 137	SI
138	SLU	Comb. SLU A1 (SLV sism.) 138	SI
139	SLU	Comb. SLU A1 (SLV sism.) 139	SI
140	SLU	Comb. SLU A1 (SLV sism.) 140	SI
141	SLU	Comb. SLU A1 (SLV sism.) 141	SI
142	SLU	Comb. SLU A1 (SLV sism.) 142	SI
143	SLU	Comb. SLU A1 (SLV sism.) 143	SI
144	SLU	Comb. SLU A1 (SLV sism.) 144	SI
145	SLU	Comb. SLU A1 (SLV sism.) 145	SI
146	SLU	Comb. SLU A1 (SLV sism.) 146	SI
147	SLU	Comb. SLU A1 (SLV sism.) 147	SI
148	SLU	Comb. SLU A1 (SLV sism.) 148	SI
149	SLU	Comb. SLU A1 (SLV sism.) 149	SI
150	SLU	Comb. SLU A1 (SLV sism.) 150	SI
151	SLU	Comb. SLU A1 (SLV sism.) 151	SI
152	SLU	Comb. SLU A1 (SLV sism.) 152	SI
153	SLU	Comb. SLU A1 (SLV sism.) 153	SI
154	SLU	Comb. SLU A1 (SLV sism.) 154	SI
155	SLU	Comb. SLU A1 (SLV sism.) 155	SI
156	SLU	Comb. SLU A1 (SLV sism.) 156	SI
157	SLU(acc.)	Comb. SLU (Accid.) 157	
158	SLU(acc.)	Comb. SLU (Accid.) 158	

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	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.30													
2	1.30	1.30	1.50	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.30													
3	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.30													
4	1.30	1.30	1.50	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.30													
5	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
6	1.00	1.00	0.80	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
7	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
8	1.00	1.00	0.80	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
9	1.30	1.30	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.30													
10	1.30	1.30	1.50	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.30													

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...
11	1.30	1.30	1.50	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.00	1.00	0.80	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1.00	1.00	0.80	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1.00	1.00	0.80	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1.00	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
16	1.00	1.00	1.00	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1.00	1.00	1.00	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.00	1.00	1.00	0.70	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.00	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
23	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1.00	1.00	1.00	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.00	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
26	1.00	1.00	1.00	0.60	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1.00	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
28	1.00	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
29	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
30	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
31	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
32	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.30
33	1.00	1.00	1.00	0.60	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
34	1.00	1.00	1.00	0.60	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
35	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
36	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.30
37	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
38	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
39	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-0.30
40	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.30
41	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
42	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
43	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-0.30
44	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.30
45	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
46	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.30

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...
	1.00													
47	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
48	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
49	1.00	1.00	1.00	0.60	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
50	1.00	1.00	1.00	0.60	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
51	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
52	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
53	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
54	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
55	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
56	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
57	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
58	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
59	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
60	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
61	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
62	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
63	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
64	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
65	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
66	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
67	1.00	1.00	1.00	0.60	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
68	1.00	1.00	1.00	0.60	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
69	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
70	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
71	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
72	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
73	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
74	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
75	1.00	1.00	1.00	0.60	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
76	1.00	1.00	1.00	0.60	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
77	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
78	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
79	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
80	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
81	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													

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...
82	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
83	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
84	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
85	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
86	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
87	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
88	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
89	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
90	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
91	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
92	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
93	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0
	1.00													
94	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0
	1.00													
95	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0
	1.00													
96	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0
	1.00													
97	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0
	1.00													
98	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	0.0
	1.00													
99	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	0.0
	1.00													
100	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	0.0
	1.00													
101	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	0.0
	1.00													
102	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	0.0
	1.00													
103	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	0.0
	1.00													
104	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	0.0
	1.00													
105	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0
	1.00													
106	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0
	1.00													
107	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0
	1.00													
108	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0
	1.00													
109	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0
	1.00													
110	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0
	1.00													
111	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0
	1.00													
112	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0
	1.00													
113	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0
	1.00													
114	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	0.0
	1.00													
115	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	0.0
	1.00													
116	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	0.0
	1.00													
117	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-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...
	1.00													
118	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	0.0
	1.00													
119	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	0.0
	1.00													
120	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	0.0
	1.00													
121	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0
	1.00													
122	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0
	1.00													
123	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0
	1.00													
124	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0
	1.00													
125	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
126	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
127	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
128	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
129	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
130	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
131	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
132	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
133	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
134	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
135	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
136	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
137	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
138	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
139	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
140	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
141	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
142	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
143	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
144	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
145	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
146	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
147	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
148	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
149	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
150	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
151	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
152	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													

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...
153	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
154	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
155	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
156	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
157	1.00	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
	1.00													
158	1.00	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
	1.00													

AZIONE SISMICA

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;

<u>Parametri della struttura</u>					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
II	50.0	1.0	50.0	C	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

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)

F_o è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

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

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.

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

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

Dove per sottosuolo di categoria **A** i coefficienti S_s e C_c valgono 1; mentre per le categorie di sottosuolo B, C, D, E i coefficienti S_s e C_c vengono calcolati mediante le espressioni riportate nella seguente Tabella

Categoria sottosuolo	S_s	C_c
A	1,00	1,00
B	$1,00 \leq 1,40 - 0,40 \cdot F_o \cdot \frac{a_g}{g} \leq 1,20$	$1,10 \cdot (T_c^*)^{-0,20}$
C	$1,00 \leq 1,70 - 0,60 \cdot F_o \cdot \frac{a_g}{g} \leq 1,50$	$1,05 \cdot (T_c^*)^{-0,33}$
D	$0,90 \leq 2,40 - 1,50 \cdot F_o \cdot \frac{a_g}{g} \leq 1,80$	$1,25 \cdot (T_c^*)^{-0,50}$
E	$1,00 \leq 2,00 - 1,10 \cdot F_o \cdot \frac{a_g}{g} \leq 1,60$	$1,15 \cdot (T_c^*)^{-0,40}$

Per tenere conto delle condizioni topografiche e in assenza di specifiche analisi di risposta sismica locale, si utilizzano i valori del coefficiente topografico S_T riportati nella seguente Tabella

Categoria topografica	Ubicazione dell'opera o dell'intervento	S_T
T1	-	1,0
T2	In corrispondenza della sommità del pendio	1,2
T3	In corrispondenza della cresta di un rilievo con pendenza media minore o uguale a 30°	1,2
T4	In corrispondenza della cresta di un rilievo con pendenza media maggiore di 30°	1,4

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

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

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

Id nodo	Longitudine	Latitudine	Distanza
Loc.	10.817	44.631	Km
16278	10.753	44.603	5.943
16279	10.823	44.605	2.966
16057	10.821	44.655	2.635
16056	10.750	44.653	5.793

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	30.0	0.050	2.475	0.250
SLD	63.0	50.0	0.062	2.498	0.270
SLV	10.0	475.0	0.162	2.381	0.290
SLC	5.0	975.0	0.208	2.383	0.310

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.050	1.500	2.475	0.744	0.138	0.415	1.798
SLD	0.062	1.500	2.498	0.837	0.146	0.437	1.846
SLV	0.162	1.468	2.381	1.295	0.153	0.458	2.249
SLC	0.208	1.403	2.383	1.467	0.160	0.479	2.432

RISULTATI ANALISI SISMICHE

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
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
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

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.

Qualora si applichi l'Ordinanza 3274 e s.m.i. le verifiche sono eseguite in accordo con l'allegato 10.A.

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
dE	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) 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
Ar	Area ridotta efficace
Dim A2	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) $\text{Sig } s < f_{yk}$
- 3) $\text{Gam } t < 5$
- 4) $\text{Gam } s < \text{Gam} \cdot (\text{caratteristica dell' elastomero})$
- 5) $\text{Gam } s < 2$
- 6) $V < 0.5 V_{cr}$

Calcolo dei fattori di comportamento secondo il D.M. 17/01/2018

La costruzione, nuova, è caratterizzata da non regolarità sia in pianta sia in altezza ed è progettata considerando un comportamento non dissipativo (ND).

Parametri fattore in direzione x e y

Sistema costruttivo: prefabbricato
Tipologia strutturale: strutture con pilastri incastrati e orizzontamenti incernierati
Valore base fattore $q_0 = 2.500$
Fattore di regolarità $K_R = 0.8$
Fattore dissipativo $q_D = q_0 \cdot K_R = 2.000$
Fattore non dissipativo $q_{ND} = 2/3 \cdot q_D = 1.333 (\leq 1.5)$

Fattori di comportamento utilizzati

	Dissipativi	Non dissipativi
q SLU x	2.000	1.333
q SLU y	2.000	1.333
q SLU z	1.500	1.500

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.468
			ordinata spettro (tratto Tb-Tc) = 0.425 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.855 sec.
			fattore q: 1.333
			fattore per spost. μ_d : 1.333
			classe di duttilità CD: ND
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	0.0	-0.12	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	0.0	-0.14	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	0.0	-0.29	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	0.0	-0.33	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	0.0	-0.43	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	0.0	-0.53	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	0.0	-0.57	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	0.0	-0.57	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z %	Energia	Energia x v
	Hz	sec	g	daN		daN		daN		
1	1.170	0.855	0.228	1.168e+05	29.7	0.08	1.96e-05	0.13	3.39e-05	0.0
2	1.217	0.821	0.237	8.641e+04	22.0	0.18	4.62e-05	0.15	3.69e-05	0.0
3	1.246	0.803	0.243	17.37	4.42e-03	7.05e-03	1.79e-06	8.77e-03	2.23e-06	0.0
4	1.249	0.801	0.243	67.84	1.73e-02	4.29e-04	0.0	3.47e-04	0.0	0.0
5	1.258	0.795	0.245	2085.37	0.5	2.69e-04	0.0	4.19e-05	0.0	0.0
6	1.642	0.609	0.320	4.029e+04	10.3	17.79	4.53e-03	30.36	7.73e-03	0.0
7	1.942	0.515	0.378	0.05	1.37e-05	2.263e+05	57.6	1.88e-04	0.0	0.0
8	2.007	0.498	0.391	0.60	1.52e-04	154.13	3.92e-02	9.75e-04	0.0	0.0
9	2.075	0.482	0.404	0.77	1.96e-04	2.864e+04	7.3	1.50e-03	0.0	0.0
10	2.120	0.472	0.413	0.77	1.95e-04	413.41	0.1	8.94e-04	0.0	0.0
11	2.286	0.437	0.425	3.59	9.13e-04	2.137e+04	5.4	1.18e-03	0.0	0.0
12	2.343	0.427	0.425	661.28	0.2	9.810e+04	25.0	0.70	1.78e-04	0.0
13	2.618	0.382	0.425	8983.04	2.3	8481.71	2.2	2.56	6.52e-04	0.0
14	2.905	0.344	0.425	1.553e+04	4.0	2009.33	0.5	25.55	6.50e-03	0.0
15	2.945	0.340	0.425	2.537e+04	6.5	1363.52	0.3	39.55	1.01e-02	0.0
16	2.954	0.339	0.425	1.730e+04	4.4	776.34	0.2	27.38	6.97e-03	0.0
17	2.964	0.337	0.425	15.30	3.89e-03	5.69e-03	1.45e-06	5.09e-03	1.30e-06	0.0
18	3.143	0.318	0.425	6.810e+04	17.3	3656.73	0.9	58.98	1.50e-02	0.0
19	3.366	0.297	0.425	387.14	9.85e-02	65.21	1.66e-02	0.06	1.58e-05	0.0
20	3.481	0.287	0.425	6404.52	1.6	195.75	4.98e-02	75.15	1.91e-02	0.0
21	3.641	0.275	0.425	20.93	5.33e-03	4.90	1.25e-03	3.29	8.38e-04	0.0
22	3.669	0.273	0.425	27.58	7.02e-03	0.36	9.08e-05	0.30	7.71e-05	0.0
23	3.686	0.271	0.425	154.65	3.94e-02	4.94e-03	1.26e-06	0.02	6.25e-06	0.0
24	4.305	0.232	0.425	3145.20	0.8	0.39	9.88e-05	0.11	2.86e-05	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
25	6.180	0.162	0.425	7.13e-03	1.81e-06	4.30e-06	0.0	4.442e+04	11.3	0.0	0.0
26	6.355	0.157	0.425	2.64e-04	0.0	0.0	0.0	9.291e+04	23.6	0.0	0.0
27	6.426	0.156	0.425	5.03e-03	1.28e-06	0.0	0.0	9.09	2.31e-03	0.0	0.0
28	6.504	0.154	0.425	2.08e-05	0.0	0.0	0.0	5801.83	1.5	0.0	0.0
29	6.561	0.152	0.425	4.85e-03	1.23e-06	0.0	0.0	3052.58	0.8	0.0	0.0
30	7.745	0.129	0.396	4.80	1.22e-03	4.25e-03	1.08e-06	9.96e-03	2.53e-06	0.0	0.0
31	7.771	0.129	0.396	8.06e-04	0.0	2.52e-04	0.0	2.14e-03	0.0	0.0	0.0
32	7.774	0.129	0.396	4.11e-03	1.05e-06	0.0	0.0	4.62e-04	0.0	0.0	0.0
33	7.855	0.127	0.394	0.89	2.26e-04	3.73e-03	0.0	1.72e-04	0.0	0.0	0.0
34	8.074	0.124	0.390	2.07	5.28e-04	0.08	2.05e-05	2.16e-03	0.0	0.0	0.0
35	8.783	0.114	0.377	0.13	3.33e-05	11.27	2.87e-03	0.35	8.85e-05	0.0	0.0
36	9.381	0.107	0.369	62.60	1.59e-02	2.39e-03	0.0	4.205e+04	10.7	0.0	0.0
37	13.337	0.075	0.330	0.02	3.85e-06	4.02	1.02e-03	0.03	7.39e-06	0.0	0.0
38	14.643	0.068	0.322	0.23	5.77e-05	1.29e-05	0.0	5.52	1.41e-03	0.0	0.0
39	14.894	0.067	0.320	1.87	4.75e-04	3.44	8.75e-04	2.061e+04	5.2	0.0	0.0
40	15.109	0.066	0.319	477.69	0.1	0.06	1.53e-05	3.991e+04	10.2	0.0	0.0
41	15.717	0.064	0.316	1.53	3.90e-04	3.24e-05	0.0	8.43	2.15e-03	0.0	0.0
42	15.719	0.064	0.316	0.01	3.26e-06	1.27e-06	0.0	0.71	1.82e-04	0.0	0.0
43	15.719	0.064	0.316	5.48e-03	1.39e-06	0.0	0.0	0.13	3.27e-05	0.0	0.0
44	15.848	0.063	0.315	0.0	0.0	1.40e-04	0.0	2.73e-04	0.0	0.0	0.0
45	15.861	0.063	0.315	2.83e-06	0.0	6.32e-04	0.0	2.64e-04	0.0	0.0	0.0
46	15.875	0.063	0.315	5.42e-06	0.0	0.04	1.11e-05	2.90e-04	0.0	0.0	0.0
47	15.890	0.063	0.315	0.38	9.60e-05	2.12e-06	0.0	0.60	1.53e-04	0.0	0.0
48	16.047	0.062	0.314	0.0	0.0	0.03	7.20e-06	0.0	0.0	0.0	0.0
49	16.695	0.060	0.311	0.08	2.09e-05	0.46	1.18e-04	2.806e+04	7.1	0.0	0.0
50	16.840	0.059	0.311	0.0	0.0	1.52	3.87e-04	5.36e-05	0.0	0.0	0.0
51	18.298	0.055	0.305	0.10	2.47e-05	1155.16	0.3	8.48	2.16e-03	0.0	0.0
52	18.443	0.054	0.305	96.00	2.44e-02	4.57	1.16e-03	445.94	0.1	0.0	0.0
53	19.026	0.053	0.302	4.38e-03	1.11e-06	1.64e-05	0.0	2243.45	0.6	0.0	0.0
54	19.056	0.052	0.302	6.82e-03	1.74e-06	2.52e-05	0.0	339.30	8.64e-02	0.0	0.0
55	19.092	0.052	0.302	3.59e-03	0.0	1.26e-05	0.0	6.517e+04	16.6	0.0	0.0
56	19.288	0.052	0.302	2.49e-04	0.0	0.0	0.0	2.920e+04	7.4	0.0	0.0
57	23.476	0.043	0.290	0.17	4.41e-05	0.0	0.0	1.607e+04	4.1	0.0	0.0
58	26.552	0.038	0.284	4.01e-04	0.0	0.39	9.98e-05	2.69e-04	0.0	0.0	0.0
59	26.558	0.038	0.284	0.03	7.30e-06	3.82e-04	0.0	6.86e-05	0.0	0.0	0.0
60	26.559	0.038	0.284	0.0	0.0	4.94e-03	1.26e-06	1.14e-05	0.0	0.0	0.0
61	26.559	0.038	0.284	3.49e-05	0.0	4.91e-05	0.0	0.0	0.0	0.0	0.0
62	26.574	0.038	0.284	0.03	7.46e-06	4.13e-05	0.0	4.18e-05	0.0	0.0	0.0
63	26.634	0.038	0.284	2.97e-04	0.0	0.04	1.03e-05	6.25e-04	0.0	0.0	0.0
64	26.724	0.037	0.284	2.24e-04	0.0	1.24e-03	0.0	3.79e-04	0.0	0.0	0.0
65	26.880	0.037	0.284	8.28e-03	2.11e-06	2.65e-06	0.0	2.15e-05	0.0	0.0	0.0
66	26.973	0.037	0.284	0.0	0.0	0.14	3.47e-05	0.0	0.0	0.0	0.0
67	27.966	0.036	0.282	0.47	1.19e-04	5.44	1.39e-03	0.71	1.81e-04	0.0	0.0
68	30.374	0.033	0.278	0.0	0.0	1.44	3.66e-04	2.06e-06	0.0	0.0	0.0
69	31.420	0.032	0.277	1.94	4.93e-04	4.30	1.09e-03	2.36	6.02e-04	0.0	0.0
70	34.208	0.029	0.274	3.87	9.84e-04	0.01	3.15e-06	0.38	9.66e-05	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.906e+05			
In percentuale				99.87		99.96		99.41			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.468
			ordinata spettro (tratto Tb-Tc) = 0.425 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.855 sec.
			fattore q: 1.333
			fattore per spost. mu d: 1.333
			classe di duttilità CD: ND
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	0.0	0.12	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	0.0	0.14	0.0	0.0	0.0	0.0	0.0

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
5.80	9889.33	27.21	5.75	0.0	0.29	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	0.0	0.33	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	0.0	0.43	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	0.0	0.53	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	0.0	0.57	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	0.0	0.57	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.170	0.855	0.228	1.162e+05	29.6	0.02	4.78e-06	0.13	3.32e-05	0.0	0.0
2	1.217	0.821	0.237	8.667e+04	22.1	4.99e-03	1.27e-06	0.14	3.63e-05	0.0	0.0
3	1.246	0.803	0.243	19.15	4.87e-03	2.08e-06	0.0	8.70e-03	2.21e-06	0.0	0.0
4	1.249	0.801	0.243	68.65	1.75e-02	1.57e-06	0.0	3.43e-04	0.0	0.0	0.0
5	1.258	0.795	0.245	2091.73	0.5	3.34e-04	0.0	4.43e-05	0.0	0.0	0.0
6	1.643	0.608	0.320	3.996e+04	10.2	0.13	3.26e-05	30.20	7.69e-03	0.0	0.0
7	1.942	0.515	0.378	0.08	2.16e-05	2.263e+05	57.6	2.03e-04	0.0	0.0	0.0
8	2.007	0.498	0.391	0.46	1.17e-04	154.62	3.94e-02	5.07e-04	0.0	0.0	0.0
9	2.075	0.482	0.404	0.39	9.88e-05	2.863e+04	7.3	4.79e-04	0.0	0.0	0.0
10	2.120	0.472	0.413	0.37	9.45e-05	414.69	0.1	1.68e-04	0.0	0.0	0.0
11	2.286	0.437	0.425	1.79	4.55e-04	2.153e+04	5.5	5.59e-06	0.0	0.0	0.0
12	2.345	0.426	0.425	226.65	5.77e-02	9.948e+04	25.3	0.01	3.14e-06	0.0	0.0
13	2.626	0.381	0.425	5575.96	1.4	6993.60	1.8	1.20	3.05e-04	0.0	0.0
14	2.914	0.343	0.425	1872.79	0.5	598.44	0.2	3.38	8.61e-04	0.0	0.0
15	2.950	0.339	0.425	452.17	0.1	49.25	1.25e-02	0.66	1.67e-04	0.0	0.0
16	2.964	0.337	0.425	1.01	2.58e-04	0.59	1.51e-04	0.01	3.61e-06	0.0	0.0
17	2.989	0.335	0.425	8.322e+04	21.2	1686.85	0.4	121.46	3.09e-02	0.0	0.0
18	3.087	0.324	0.425	4.251e+04	10.8	5565.71	1.4	36.37	9.26e-03	0.0	0.0
19	3.366	0.297	0.425	146.52	3.73e-02	66.89	1.70e-02	0.10	2.45e-05	0.0	0.0
20	3.468	0.288	0.425	9416.81	2.4	92.05	2.34e-02	65.65	1.67e-02	0.0	0.0
21	3.640	0.275	0.425	16.09	4.09e-03	2.14	5.44e-04	2.56	6.52e-04	0.0	0.0
22	3.669	0.273	0.425	29.67	7.55e-03	0.16	4.11e-05	0.24	6.09e-05	0.0	0.0
23	3.686	0.271	0.425	154.86	3.94e-02	3.64e-03	0.0	0.02	6.09e-06	0.0	0.0
24	4.304	0.232	0.425	3151.63	0.8	0.26	6.66e-05	0.10	2.58e-05	0.0	0.0
25	6.180	0.162	0.425	7.08e-03	1.80e-06	0.0	0.0	4.442e+04	11.3	0.0	0.0
26	6.355	0.157	0.425	2.59e-04	0.0	1.14e-06	0.0	9.291e+04	23.6	0.0	0.0
27	6.426	0.156	0.425	5.01e-03	1.27e-06	2.51e-06	0.0	9.09	2.31e-03	0.0	0.0
28	6.504	0.154	0.425	1.94e-05	0.0	2.17e-06	0.0	5801.83	1.5	0.0	0.0
29	6.561	0.152	0.425	4.85e-03	1.23e-06	0.0	0.0	3052.58	0.8	0.0	0.0
30	7.745	0.129	0.396	3.84	9.77e-04	3.88e-03	0.0	0.02	4.90e-06	0.0	0.0
31	7.771	0.129	0.396	1.65e-04	0.0	2.71e-04	0.0	2.79e-03	0.0	0.0	0.0
32	7.774	0.129	0.396	2.84e-03	0.0	0.0	0.0	5.38e-04	0.0	0.0	0.0
33	7.855	0.127	0.394	0.77	1.95e-04	3.63e-03	0.0	6.25e-04	0.0	0.0	0.0
34	8.074	0.124	0.390	1.81	4.60e-04	0.08	2.04e-05	4.42e-03	1.12e-06	0.0	0.0
35	8.783	0.114	0.377	0.12	3.11e-05	11.25	2.86e-03	0.09	2.28e-05	0.0	0.0
36	9.381	0.107	0.369	62.53	1.59e-02	0.01	3.09e-06	4.205e+04	10.7	0.0	0.0
37	13.337	0.075	0.330	0.07	1.82e-05	4.02	1.02e-03	1.99	5.06e-04	0.0	0.0
38	14.643	0.068	0.322	0.23	5.76e-05	0.0	0.0	5.62	1.43e-03	0.0	0.0
39	14.894	0.067	0.320	1.77	4.52e-04	3.51	8.93e-04	2.076e+04	5.3	0.0	0.0
40	15.109	0.066	0.319	477.58	0.1	5.71e-03	1.45e-06	3.975e+04	10.1	0.0	0.0
41	15.717	0.064	0.316	1.54	3.91e-04	0.0	0.0	8.50	2.16e-03	0.0	0.0
42	15.719	0.064	0.316	0.01	3.23e-06	0.0	0.0	0.71	1.82e-04	0.0	0.0
43	15.719	0.064	0.316	5.45e-03	1.39e-06	0.0	0.0	0.13	3.27e-05	0.0	0.0
44	15.848	0.063	0.315	0.0	0.0	1.40e-04	0.0	6.79e-04	0.0	0.0	0.0
45	15.861	0.063	0.315	1.64e-06	0.0	6.31e-04	0.0	1.01e-03	0.0	0.0	0.0
46	15.875	0.063	0.315	3.65e-06	0.0	0.04	1.11e-05	2.67e-04	0.0	0.0	0.0
47	15.890	0.063	0.315	0.38	9.62e-05	0.0	0.0	0.61	1.55e-04	0.0	0.0
48	16.047	0.062	0.314	0.0	0.0	0.03	7.20e-06	0.0	0.0	0.0	0.0
49	16.695	0.060	0.311	0.07	1.78e-05	0.45	1.15e-04	2.808e+04	7.1	0.0	0.0
50	16.840	0.059	0.311	2.43e-06	0.0	1.52	3.87e-04	8.32e-05	0.0	0.0	0.0
51	18.298	0.055	0.305	0.16	3.97e-05	1155.68	0.3	0.76	1.92e-04	0.0	0.0
52	18.443	0.054	0.305	95.93	2.44e-02	4.05	1.03e-03	450.91	0.1	0.0	0.0
53	19.026	0.053	0.302	4.37e-03	1.11e-06	1.01e-05	0.0	2243.45	0.6	0.0	0.0
54	19.056	0.052	0.302	6.82e-03	1.73e-06	1.51e-05	0.0	339.30	8.64e-02	0.0	0.0
55	19.092	0.052	0.302	3.59e-03	0.0	7.22e-06	0.0	6.517e+04	16.6	0.0	0.0
56	19.288	0.052	0.302	2.49e-04	0.0	0.0	0.0	2.920e+04	7.4	0.0	0.0
57	23.476	0.043	0.290	0.17	4.41e-05	0.0	0.0	1.607e+04	4.1	0.0	0.0
58	26.552	0.038	0.284	4.78e-04	0.0	0.39	9.98e-05	2.09e-04	0.0	0.0	0.0
59	26.558	0.038	0.284	0.03	7.91e-06	3.82e-04	0.0	8.84e-06	0.0	0.0	0.0
60	26.559	0.038	0.284	0.0	0.0	4.95e-03	1.26e-06	5.72e-06	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
61	26.559	0.038	0.284	3.93e-05	0.0	4.95e-05	0.0	0.0	0.0	0.0	0.0
62	26.574	0.038	0.284	0.03	7.79e-06	4.18e-05	0.0	1.35e-05	0.0	0.0	0.0
63	26.634	0.038	0.284	3.98e-04	0.0	0.04	1.03e-05	4.78e-04	0.0	0.0	0.0
64	26.724	0.037	0.284	2.92e-04	0.0	1.24e-03	0.0	2.91e-04	0.0	0.0	0.0
65	26.880	0.037	0.284	8.79e-03	2.24e-06	2.66e-06	0.0	6.15e-06	0.0	0.0	0.0
66	26.973	0.037	0.284	0.0	0.0	0.14	3.47e-05	0.0	0.0	0.0	0.0
67	27.967	0.036	0.282	0.58	1.47e-04	5.45	1.39e-03	0.59	1.49e-04	0.0	0.0
68	30.374	0.033	0.278	1.74e-06	0.0	1.44	3.66e-04	0.0	0.0	0.0	0.0
69	31.421	0.032	0.277	2.14	5.44e-04	4.30	1.09e-03	2.21	5.63e-04	0.0	0.0
70	34.208	0.029	0.274	3.86	9.83e-04	9.13e-03	2.32e-06	0.38	9.71e-05	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.906e+05			
In percentuale				99.87		99.96		99.41			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.468
			ordinata spettro (tratto Tb-Tc) = 0.425 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.532 sec.
			fattore q: 1.333
			fattore per spost. mu d: 1.333
			classe di duttilità CD: ND
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	1.66	0.0	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	0.32	0.0	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.171	0.854	0.228	1.158e+05	29.5	0.04	9.96e-06	0.13	3.33e-05	0.0	0.0
2	1.218	0.821	0.237	8.686e+04	22.1	0.06	1.44e-05	0.14	3.67e-05	0.0	0.0
3	1.246	0.802	0.243	18.11	4.61e-03	1.66e-03	0.0	8.71e-03	2.22e-06	0.0	0.0
4	1.249	0.800	0.243	68.13	1.73e-02	1.10e-04	0.0	3.44e-04	0.0	0.0	0.0
5	1.259	0.795	0.245	2096.76	0.5	2.74e-04	0.0	4.22e-05	0.0	0.0	0.0
6	1.643	0.608	0.320	3.993e+04	10.2	3.04	7.74e-04	30.27	7.70e-03	0.0	0.0
7	1.880	0.532	0.366	4.73e-06	0.0	1.706e+05	43.4	0.0	0.0	0.0	0.0
8	1.994	0.501	0.389	6.37e-05	0.0	1.779e+04	4.5	2.79e-05	0.0	0.0	0.0
9	2.075	0.482	0.404	2.60e-04	0.0	3.912e+04	10.0	4.07e-06	0.0	0.0	0.0
10	2.116	0.473	0.412	0.02	5.54e-06	3.192e+04	8.1	5.93e-04	0.0	0.0	0.0
11	2.265	0.442	0.425	1.48	3.77e-04	4.213e+04	10.7	0.02	3.92e-06	0.0	0.0
12	2.414	0.414	0.425	50.13	1.28e-02	6.854e+04	17.4	0.28	7.05e-05	0.0	0.0
13	2.646	0.378	0.425	95.28	2.43e-02	1.104e+04	2.8	0.04	9.13e-06	0.0	0.0
14	2.929	0.341	0.425	663.83	0.2	548.43	0.1	0.78	1.98e-04	0.0	0.0
15	2.963	0.337	0.425	221.95	5.65e-02	41.95	1.07e-02	0.27	6.78e-05	0.0	0.0
16	2.977	0.336	0.425	2.21e-03	0.0	0.24	6.10e-05	2.28e-06	0.0	0.0	0.0
17	2.995	0.334	0.425	1.225e+05	31.2	856.13	0.2	148.20	3.77e-02	0.0	0.0
18	3.114	0.321	0.425	1.011e+04	2.6	9186.16	2.3	10.83	2.76e-03	0.0	0.0
19	3.376	0.296	0.425	23.02	5.86e-03	75.13	1.91e-02	0.02	4.29e-06	0.0	0.0
20	3.436	0.291	0.425	9840.86	2.5	10.83	2.76e-03	66.89	1.70e-02	0.0	0.0
21	3.606	0.277	0.425	16.83	4.28e-03	0.14	3.54e-05	2.59	6.60e-04	0.0	0.0
22	3.634	0.275	0.425	30.50	7.76e-03	8.67e-03	2.21e-06	0.24	6.19e-05	0.0	0.0
23	3.652	0.274	0.425	163.37	4.16e-02	3.05e-05	0.0	0.02	6.30e-06	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
24	4.272	0.234	0.425	3295.85	0.8	3.60e-03	0.0	0.11	2.72e-05	0.0	0.0
25	6.133	0.163	0.425	9.75e-03	2.48e-06	0.0	0.0	4.278e+04	10.9	0.0	0.0
26	6.363	0.157	0.425	1.30e-04	0.0	0.0	0.0	8.680e+04	22.1	0.0	0.0
27	6.444	0.155	0.425	5.56e-03	1.41e-06	0.0	0.0	5455.11	1.4	0.0	0.0
28	6.512	0.154	0.425	4.43e-04	0.0	0.0	0.0	1.016e+04	2.6	0.0	0.0
29	6.555	0.153	0.425	3.93e-03	0.0	0.0	0.0	843.54	0.2	0.0	0.0
30	7.714	0.130	0.397	0.01	3.42e-06	3.97e-03	1.01e-06	3.70e-04	0.0	0.0	0.0
31	7.739	0.129	0.396	3.88e-04	0.0	2.62e-04	0.0	1.09e-05	0.0	0.0	0.0
32	7.742	0.129	0.396	2.69e-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	7.823	0.128	0.395	1.10e-03	0.0	3.62e-03	0.0	3.50e-05	0.0	0.0	0.0
34	8.046	0.124	0.390	2.28e-03	0.0	0.08	2.03e-05	9.87e-05	0.0	0.0	0.0
35	8.759	0.114	0.378	0.13	3.39e-05	7.89	2.01e-03	0.02	5.69e-06	0.0	0.0
36	9.409	0.106	0.368	64.14	1.63e-02	6.51e-03	1.66e-06	4.260e+04	10.8	0.0	0.0
37	13.343	0.075	0.330	4.96e-03	1.26e-06	2.11	5.37e-04	0.57	1.46e-04	0.0	0.0
38	14.627	0.068	0.322	0.17	4.34e-05	2.35e-06	0.0	4.16	1.06e-03	0.0	0.0
39	14.895	0.067	0.320	1.43	3.63e-04	4.26	1.08e-03	2.111e+04	5.4	0.0	0.0
40	15.158	0.066	0.319	478.72	0.1	6.75e-03	1.72e-06	3.884e+04	9.9	0.0	0.0
41	15.725	0.064	0.316	1.66	4.23e-04	8.31e-06	0.0	9.54	2.43e-03	0.0	0.0
42	15.727	0.064	0.316	0.01	3.77e-06	0.0	0.0	0.78	2.00e-04	0.0	0.0
43	15.727	0.064	0.316	6.14e-03	1.56e-06	0.0	0.0	0.14	3.57e-05	0.0	0.0
44	15.851	0.063	0.315	0.0	0.0	1.62e-03	0.0	3.75e-04	0.0	0.0	0.0
45	15.864	0.063	0.315	0.0	0.0	1.22e-03	0.0	1.06e-03	0.0	0.0	0.0
46	15.878	0.063	0.315	0.0	0.0	0.05	1.26e-05	7.99e-04	0.0	0.0	0.0
47	15.898	0.063	0.315	0.40	1.03e-04	1.17e-06	0.0	0.67	1.69e-04	0.0	0.0
48	16.041	0.062	0.314	0.0	0.0	0.03	7.18e-06	0.0	0.0	0.0	0.0
49	16.696	0.060	0.311	0.07	1.87e-05	1.07	2.72e-04	2.808e+04	7.1	0.0	0.0
50	16.824	0.059	0.311	0.0	0.0	1.51	3.83e-04	6.42e-05	0.0	0.0	0.0
51	18.444	0.054	0.305	94.84	2.41e-02	1.82e-05	0.0	459.62	0.1	0.0	0.0
52	18.988	0.053	0.303	8.73e-05	0.0	0.0	0.0	3311.22	0.8	0.0	0.0
53	19.048	0.053	0.302	1.88e-04	0.0	0.0	0.0	3.863e+04	9.8	0.0	0.0
54	19.194	0.052	0.302	1.07e-04	0.0	0.0	0.0	2.453e+04	6.2	0.0	0.0
55	19.385	0.052	0.301	0.01	2.90e-06	0.0	0.0	3.011e+04	7.7	0.0	0.0
56	20.166	0.050	0.299	1.54e-03	0.0	839.59	0.2	0.02	4.77e-06	0.0	0.0
57	22.926	0.044	0.292	0.18	4.59e-05	0.0	0.0	1.646e+04	4.2	0.0	0.0
58	26.398	0.038	0.285	1.18e-05	0.0	7.34e-06	0.0	6.70e-06	0.0	0.0	0.0
59	26.399	0.038	0.285	0.0	0.0	2.74e-06	0.0	0.0	0.0	0.0	0.0
60	26.399	0.038	0.285	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	26.502	0.038	0.284	4.08e-06	0.0	2.95e-04	0.0	2.35e-06	0.0	0.0	0.0
62	26.564	0.038	0.284	0.0	0.0	0.41	1.05e-04	0.0	0.0	0.0	0.0
63	26.716	0.037	0.284	0.0	0.0	0.03	7.37e-06	0.0	0.0	0.0	0.0
64	26.719	0.037	0.284	2.04e-06	0.0	8.17e-05	0.0	1.30e-06	0.0	0.0	0.0
65	26.821	0.037	0.284	0.0	0.0	0.12	3.15e-05	0.0	0.0	0.0	0.0
66	26.865	0.037	0.284	3.82e-06	0.0	2.92e-03	0.0	5.43e-06	0.0	0.0	0.0
67	28.063	0.036	0.282	1.53e-03	0.0	6.54	1.67e-03	1.74e-03	0.0	0.0	0.0
68	30.076	0.033	0.279	0.0	0.0	1.46	3.71e-04	0.0	0.0	0.0	0.0
69	31.341	0.032	0.277	1.22e-03	0.0	4.15	1.06e-03	5.62e-04	0.0	0.0	0.0
70	34.312	0.029	0.274	20.22	5.15e-03	1.57e-03	0.0	0.92	2.34e-04	0.0	0.0
Risulta In percentuale				3.924e+05 99.88		3.927e+05 99.95		3.904e+05 99.37			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.468
			ordinata spettro (tratto Tb-Tc) = 0.425 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.542 sec.
			fattore q: 1.333
			fattore per spost. mu d: 1.333
			classe di duttilità CD: ND
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0

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
6.20	9052.73	27.29	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	-1.66	0.0	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	-0.32	0.0	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.171	0.854	0.228	1.158e+05	29.5	0.05	1.19e-05	0.13	3.34e-05	0.0	0.0
2	1.218	0.821	0.237	8.686e+04	22.1	0.07	1.74e-05	0.14	3.67e-05	0.0	0.0
3	1.246	0.802	0.243	18.11	4.61e-03	2.02e-03	0.0	8.71e-03	2.22e-06	0.0	0.0
4	1.249	0.800	0.243	68.13	1.73e-02	1.33e-04	0.0	3.44e-04	0.0	0.0	0.0
5	1.259	0.795	0.245	2096.76	0.5	3.38e-04	0.0	4.19e-05	0.0	0.0	0.0
6	1.643	0.608	0.320	3.993e+04	10.2	5.22	1.33e-03	30.27	7.71e-03	0.0	0.0
7	1.844	0.542	0.359	0.07	1.89e-05	1.534e+05	39.1	3.44e-04	0.0	0.0	0.0
8	1.962	0.510	0.382	1.57e-04	0.0	3.178e+04	8.1	2.21e-04	0.0	0.0	0.0
9	2.077	0.481	0.405	2.51e-04	0.0	3.475e+04	8.8	2.01e-05	0.0	0.0	0.0
10	2.240	0.446	0.425	3.33e-03	0.0	2.595e+04	6.6	2.33e-05	0.0	0.0	0.0
11	2.280	0.439	0.425	12.63	3.21e-03	1.106e+05	28.2	0.18	4.50e-05	0.0	0.0
12	2.586	0.387	0.425	5.84	1.49e-03	2.688e+04	6.8	3.67e-03	0.0	0.0	0.0
13	2.625	0.381	0.425	163.87	4.17e-02	1564.00	0.4	0.12	3.08e-05	0.0	0.0
14	2.925	0.342	0.425	1718.06	0.4	743.33	0.2	2.09	5.33e-04	0.0	0.0
15	2.963	0.338	0.425	913.16	0.2	81.41	2.07e-02	1.12	2.85e-04	0.0	0.0
16	2.977	0.336	0.425	0.03	7.90e-06	0.50	1.28e-04	3.66e-05	0.0	0.0	0.0
17	2.987	0.335	0.425	9.214e+04	23.5	1437.02	0.4	112.41	2.86e-02	0.0	0.0
18	3.050	0.328	0.425	3.861e+04	9.8	3929.77	1.0	44.64	1.14e-02	0.0	0.0
19	3.376	0.296	0.425	14.06	3.58e-03	56.00	1.43e-02	0.01	3.67e-06	0.0	0.0
20	3.436	0.291	0.425	9901.49	2.5	4.39	1.12e-03	66.68	1.70e-02	0.0	0.0
21	3.606	0.277	0.425	16.74	4.26e-03	0.07	1.78e-05	2.59	6.59e-04	0.0	0.0
22	3.634	0.275	0.425	30.53	7.77e-03	4.46e-03	1.14e-06	0.24	6.14e-05	0.0	0.0
23	3.652	0.274	0.425	163.37	4.16e-02	1.65e-05	0.0	0.02	6.20e-06	0.0	0.0
24	4.272	0.234	0.425	3295.91	0.8	2.77e-03	0.0	0.11	2.76e-05	0.0	0.0
25	6.228	0.161	0.425	4.95e-03	1.26e-06	0.0	0.0	4.700e+04	12.0	0.0	0.0
26	6.326	0.158	0.425	1.59e-03	0.0	0.0	0.0	8.061e+04	20.5	0.0	0.0
27	6.407	0.156	0.425	3.34e-03	0.0	0.0	0.0	6918.66	1.8	0.0	0.0
28	6.487	0.154	0.425	1.42e-05	0.0	0.0	0.0	5898.85	1.5	0.0	0.0
29	6.599	0.152	0.424	5.19e-03	1.32e-06	0.0	0.0	5973.26	1.5	0.0	0.0
30	7.714	0.130	0.397	0.01	3.43e-06	4.16e-03	1.06e-06	3.67e-04	0.0	0.0	0.0
31	7.739	0.129	0.396	3.89e-04	0.0	2.61e-04	0.0	1.09e-05	0.0	0.0	0.0
32	7.742	0.129	0.396	2.70e-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	7.823	0.128	0.395	1.10e-03	0.0	3.71e-03	0.0	3.48e-05	0.0	0.0	0.0
34	8.046	0.124	0.390	2.28e-03	0.0	0.08	2.12e-05	9.80e-05	0.0	0.0	0.0
35	8.745	0.114	0.378	0.12	3.09e-05	16.17	4.12e-03	0.02	5.01e-06	0.0	0.0
36	9.353	0.107	0.369	60.85	1.55e-02	6.16e-03	1.57e-06	4.150e+04	10.6	0.0	0.0
37	13.332	0.075	0.330	5.54e-03	1.41e-06	6.75	1.72e-03	0.68	1.74e-04	0.0	0.0
38	14.627	0.068	0.322	0.22	5.49e-05	4.00e-06	0.0	6.40	1.63e-03	0.0	0.0
39	14.894	0.067	0.320	2.55	6.50e-04	2.37	6.04e-04	2.000e+04	5.1	0.0	0.0
40	15.060	0.066	0.319	475.89	0.1	6.77e-03	1.72e-06	4.107e+04	10.5	0.0	0.0
41	15.725	0.064	0.316	1.53	3.88e-04	1.05e-05	0.0	6.97	1.77e-03	0.0	0.0
42	15.727	0.064	0.316	0.01	2.71e-06	0.0	0.0	0.61	1.55e-04	0.0	0.0
43	15.727	0.064	0.316	5.02e-03	1.28e-06	0.0	0.0	0.11	2.84e-05	0.0	0.0
44	15.844	0.063	0.315	0.0	0.0	4.02e-03	1.02e-06	3.40e-05	0.0	0.0	0.0
45	15.858	0.063	0.315	0.0	0.0	2.07e-03	0.0	1.94e-05	0.0	0.0	0.0
46	15.873	0.063	0.315	0.0	0.0	0.03	8.48e-06	1.61e-05	0.0	0.0	0.0
47	15.898	0.063	0.315	0.39	9.87e-05	1.78e-06	0.0	0.51	1.31e-04	0.0	0.0
48	16.053	0.062	0.314	0.0	0.0	0.03	7.26e-06	0.0	0.0	0.0	0.0
49	16.694	0.060	0.311	0.08	2.05e-05	2.83	7.21e-04	2.798e+04	7.1	0.0	0.0
50	16.856	0.059	0.311	0.0	0.0	1.58	4.03e-04	4.01e-04	0.0	0.0	0.0
51	17.043	0.059	0.310	3.79e-03	0.0	1432.95	0.4	100.36	2.55e-02	0.0	0.0
52	18.442	0.054	0.305	96.76	2.46e-02	2.04e-04	0.0	450.14	0.1	0.0	0.0
53	18.735	0.053	0.303	0.02	5.40e-06	0.0	0.0	1.951e+04	5.0	0.0	0.0
54	18.930	0.053	0.303	3.76e-04	0.0	0.0	0.0	2.420e+04	6.2	0.0	0.0
55	19.122	0.052	0.302	1.65e-05	0.0	0.0	0.0	2.771e+04	7.1	0.0	0.0
56	19.543	0.051	0.301	2.48e-04	0.0	0.0	0.0	2.585e+04	6.6	0.0	0.0
57	24.033	0.042	0.289	0.17	4.23e-05	0.0	0.0	1.564e+04	4.0	0.0	0.0
58	26.398	0.038	0.285	1.22e-05	0.0	4.46e-04	0.0	6.57e-06	0.0	0.0	0.0
59	26.399	0.038	0.285	0.0	0.0	3.16e-04	0.0	0.0	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
60	26.399	0.038	0.285	0.0	0.0	1.69e-04	0.0	0.0	0.0	0.0	0.0
61	26.411	0.038	0.284	2.00e-06	0.0	0.16	4.16e-05	2.37e-06	0.0	0.0	0.0
62	26.502	0.038	0.284	4.03e-06	0.0	1.40e-04	0.0	2.20e-06	0.0	0.0	0.0
63	26.561	0.038	0.284	0.0	0.0	0.20	5.09e-05	0.0	0.0	0.0	0.0
64	26.703	0.037	0.284	0.0	0.0	0.07	1.75e-05	0.0	0.0	0.0	0.0
65	26.719	0.037	0.284	1.91e-06	0.0	1.49e-04	0.0	1.06e-06	0.0	0.0	0.0
66	27.128	0.037	0.283	0.0	0.0	0.15	3.78e-05	0.0	0.0	0.0	0.0
67	27.871	0.036	0.282	1.43e-03	0.0	4.94	1.26e-03	1.37e-03	0.0	0.0	0.0
68	30.675	0.033	0.278	0.0	0.0	1.43	3.63e-04	0.0	0.0	0.0	0.0
69	31.301	0.032	0.277	1.31e-03	0.0	4.63	1.18e-03	5.76e-04	0.0	0.0	0.0
70	32.827	0.030	0.275	0.14	3.67e-05	0.02	4.17e-06	2.15	5.46e-04	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.907e+05			
In percentuale				99.87		99.96		99.44			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.231 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.855 sec.
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	0.0	-0.12	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	0.0	-0.14	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	0.0	-0.29	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	0.0	-0.33	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	0.0	-0.43	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	0.0	-0.53	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	0.0	-0.57	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	0.0	-0.57	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.170	0.855	0.118	1.168e+05	29.7	0.08	1.96e-05	0.13	3.39e-05	0.0	0.0
2	1.217	0.821	0.123	8.641e+04	22.0	0.18	4.62e-05	0.15	3.69e-05	0.0	0.0
3	1.246	0.803	0.126	17.37	4.42e-03	7.05e-03	1.79e-06	8.77e-03	2.23e-06	0.0	0.0
4	1.249	0.801	0.126	67.84	1.73e-02	4.29e-04	0.0	3.47e-04	0.0	0.0	0.0
5	1.258	0.795	0.127	2085.37	0.5	2.69e-04	0.0	4.19e-05	0.0	0.0	0.0
6	1.642	0.609	0.166	4.029e+04	10.3	17.79	4.53e-03	30.36	7.73e-03	0.0	0.0
7	1.942	0.515	0.196	0.05	1.37e-05	2.263e+05	57.6	1.88e-04	0.0	0.0	0.0
8	2.007	0.498	0.202	0.60	1.52e-04	154.13	3.92e-02	9.75e-04	0.0	0.0	0.0
9	2.075	0.482	0.209	0.77	1.96e-04	2.864e+04	7.3	1.50e-03	0.0	0.0	0.0
10	2.120	0.472	0.214	0.77	1.95e-04	413.41	0.1	8.94e-04	0.0	0.0	0.0
11	2.286	0.437	0.231	3.59	9.13e-04	2.137e+04	5.4	1.18e-03	0.0	0.0	0.0
12	2.343	0.427	0.231	661.28	0.2	9.810e+04	25.0	0.70	1.78e-04	0.0	0.0
13	2.618	0.382	0.231	8983.04	2.3	8481.71	2.2	2.56	6.52e-04	0.0	0.0
14	2.905	0.344	0.231	1.553e+04	4.0	2009.33	0.5	25.55	6.50e-03	0.0	0.0
15	2.945	0.340	0.231	2.537e+04	6.5	1363.52	0.3	39.55	1.01e-02	0.0	0.0
16	2.954	0.339	0.231	1.730e+04	4.4	776.34	0.2	27.38	6.97e-03	0.0	0.0
17	2.964	0.337	0.231	15.30	3.89e-03	5.69e-03	1.45e-06	5.09e-03	1.30e-06	0.0	0.0
18	3.143	0.318	0.231	6.810e+04	17.3	3656.73	0.9	58.98	1.50e-02	0.0	0.0
19	3.366	0.297	0.231	387.14	9.85e-02	65.21	1.66e-02	0.06	1.58e-05	0.0	0.0
20	3.481	0.287	0.231	6404.52	1.6	195.75	4.98e-02	75.15	1.91e-02	0.0	0.0
21	3.641	0.275	0.231	20.93	5.33e-03	4.90	1.25e-03	3.29	8.38e-04	0.0	0.0
22	3.669	0.273	0.231	27.58	7.02e-03	0.36	9.08e-05	0.30	7.71e-05	0.0	0.0
23	3.686	0.271	0.231	154.65	3.94e-02	4.94e-03	1.26e-06	0.02	6.25e-06	0.0	0.0
24	4.305	0.232	0.231	3145.20	0.8	0.39	9.88e-05	0.11	2.86e-05	0.0	0.0
25	6.180	0.162	0.231	7.13e-03	1.81e-06	4.30e-06	0.0	4.442e+04	11.3	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
26	6.355	0.157	0.231	2.64e-04	0.0	0.0	0.0	9.291e+04	23.6	0.0	0.0
27	6.426	0.156	0.231	5.03e-03	1.28e-06	0.0	0.0	9.09	2.31e-03	0.0	0.0
28	6.504	0.154	0.231	2.08e-05	0.0	0.0	0.0	5801.83	1.5	0.0	0.0
29	6.561	0.152	0.231	4.85e-03	1.23e-06	0.0	0.0	3052.58	0.8	0.0	0.0
30	7.745	0.129	0.215	4.80	1.22e-03	4.25e-03	1.08e-06	9.96e-03	2.53e-06	0.0	0.0
31	7.771	0.129	0.214	8.06e-04	0.0	2.52e-04	0.0	2.14e-03	0.0	0.0	0.0
32	7.774	0.129	0.214	4.11e-03	1.05e-06	0.0	0.0	4.62e-04	0.0	0.0	0.0
33	7.855	0.127	0.213	0.89	2.26e-04	3.73e-03	0.0	1.72e-04	0.0	0.0	0.0
34	8.074	0.124	0.210	2.07	5.28e-04	0.08	2.05e-05	2.16e-03	0.0	0.0	0.0
35	8.783	0.114	0.200	0.13	3.33e-05	11.27	2.87e-03	0.35	8.85e-05	0.0	0.0
36	9.381	0.107	0.193	62.60	1.59e-02	2.39e-03	0.0	4.205e+04	10.7	0.0	0.0
37	13.337	0.075	0.163	0.02	3.85e-06	4.02	1.02e-03	0.03	7.39e-06	0.0	0.0
38	14.643	0.068	0.157	0.23	5.77e-05	1.29e-05	0.0	5.52	1.41e-03	0.0	0.0
39	14.894	0.067	0.156	1.87	4.75e-04	3.44	8.75e-04	2.061e+04	5.2	0.0	0.0
40	15.109	0.066	0.155	477.69	0.1	0.06	1.53e-05	3.991e+04	10.2	0.0	0.0
41	15.717	0.064	0.153	1.53	3.90e-04	3.24e-05	0.0	8.43	2.15e-03	0.0	0.0
42	15.719	0.064	0.153	0.01	3.26e-06	1.27e-06	0.0	0.71	1.82e-04	0.0	0.0
43	15.719	0.064	0.153	5.48e-03	1.39e-06	0.0	0.0	0.13	3.27e-05	0.0	0.0
44	15.848	0.063	0.152	0.0	0.0	1.40e-04	0.0	2.73e-04	0.0	0.0	0.0
45	15.861	0.063	0.152	2.83e-06	0.0	6.32e-04	0.0	2.64e-04	0.0	0.0	0.0
46	15.875	0.063	0.152	5.42e-06	0.0	0.04	1.11e-05	2.90e-04	0.0	0.0	0.0
47	15.890	0.063	0.152	0.38	9.60e-05	2.12e-06	0.0	0.60	1.53e-04	0.0	0.0
48	16.047	0.062	0.151	0.0	0.0	0.03	7.20e-06	0.0	0.0	0.0	0.0
49	16.695	0.060	0.149	0.08	2.09e-05	0.46	1.18e-04	2.806e+04	7.1	0.0	0.0
50	16.840	0.059	0.149	0.0	0.0	1.52	3.87e-04	5.36e-05	0.0	0.0	0.0
51	18.298	0.055	0.144	0.10	2.47e-05	1155.16	0.3	8.48	2.16e-03	0.0	0.0
52	18.443	0.054	0.144	96.00	2.44e-02	4.57	1.16e-03	445.94	0.1	0.0	0.0
53	19.026	0.053	0.142	4.38e-03	1.11e-06	1.64e-05	0.0	2243.45	0.6	0.0	0.0
54	19.056	0.052	0.142	6.82e-03	1.74e-06	2.52e-05	0.0	339.30	8.64e-02	0.0	0.0
55	19.092	0.052	0.142	3.59e-03	0.0	1.26e-05	0.0	6.517e+04	16.6	0.0	0.0
56	19.288	0.052	0.142	2.49e-04	0.0	0.0	0.0	2.920e+04	7.4	0.0	0.0
57	23.476	0.043	0.133	0.17	4.41e-05	0.0	0.0	1.607e+04	4.1	0.0	0.0
58	26.552	0.038	0.128	4.01e-04	0.0	0.39	9.98e-05	2.69e-04	0.0	0.0	0.0
59	26.558	0.038	0.128	0.03	7.30e-06	3.82e-04	0.0	6.86e-05	0.0	0.0	0.0
60	26.559	0.038	0.128	0.0	0.0	4.94e-03	1.26e-06	1.14e-05	0.0	0.0	0.0
61	26.559	0.038	0.128	3.49e-05	0.0	4.91e-05	0.0	0.0	0.0	0.0	0.0
62	26.574	0.038	0.128	0.03	7.46e-06	4.13e-05	0.0	4.18e-05	0.0	0.0	0.0
63	26.634	0.038	0.128	2.97e-04	0.0	0.04	1.03e-05	6.25e-04	0.0	0.0	0.0
64	26.724	0.037	0.128	2.24e-04	0.0	1.24e-03	0.0	3.79e-04	0.0	0.0	0.0
65	26.880	0.037	0.128	8.28e-03	2.11e-06	2.65e-06	0.0	2.15e-05	0.0	0.0	0.0
66	26.973	0.037	0.128	0.0	0.0	0.14	3.47e-05	0.0	0.0	0.0	0.0
67	27.966	0.036	0.126	0.47	1.19e-04	5.44	1.39e-03	0.71	1.81e-04	0.0	0.0
68	30.374	0.033	0.124	0.0	0.0	1.44	3.66e-04	2.06e-06	0.0	0.0	0.0
69	31.420	0.032	0.123	1.94	4.93e-04	4.30	1.09e-03	2.36	6.02e-04	0.0	0.0
70	34.208	0.029	0.120	3.87	9.84e-04	0.01	3.15e-06	0.38	9.66e-05	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.906e+05			
In percentuale				99.87		99.96		99.41			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.231 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.855 sec.
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	0.0	0.12	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	0.0	0.14	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	0.0	0.29	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	0.0	0.33	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	0.0	0.43	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	0.0	0.53	0.0	0.0	0.0	0.0	0.0

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
5.00	9.387e+04	24.82	5.75	0.0	0.57	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	0.0	0.57	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.170	0.855	0.118	1.162e+05	29.6	0.02	4.78e-06	0.13	3.32e-05	0.0	0.0
2	1.217	0.821	0.123	8.667e+04	22.1	4.99e-03	1.27e-06	0.14	3.63e-05	0.0	0.0
3	1.246	0.803	0.126	19.15	4.87e-03	2.08e-06	0.0	8.70e-03	2.21e-06	0.0	0.0
4	1.249	0.801	0.126	68.65	1.75e-02	1.57e-06	0.0	3.43e-04	0.0	0.0	0.0
5	1.258	0.795	0.127	2091.73	0.5	3.34e-04	0.0	4.43e-05	0.0	0.0	0.0
6	1.643	0.608	0.166	3.996e+04	10.2	0.13	3.26e-05	30.20	7.69e-03	0.0	0.0
7	1.942	0.515	0.196	0.08	2.16e-05	2.263e+05	57.6	2.03e-04	0.0	0.0	0.0
8	2.007	0.498	0.202	0.46	1.17e-04	154.62	3.94e-02	5.07e-04	0.0	0.0	0.0
9	2.075	0.482	0.209	0.39	9.88e-05	2.863e+04	7.3	4.79e-04	0.0	0.0	0.0
10	2.120	0.472	0.214	0.37	9.45e-05	414.69	0.1	1.68e-04	0.0	0.0	0.0
11	2.286	0.437	0.231	1.79	4.55e-04	2.153e+04	5.5	5.59e-06	0.0	0.0	0.0
12	2.345	0.426	0.231	226.65	5.77e-02	9.948e+04	25.3	0.01	3.14e-06	0.0	0.0
13	2.626	0.381	0.231	5575.96	1.4	6993.60	1.8	1.20	3.05e-04	0.0	0.0
14	2.914	0.343	0.231	1872.79	0.5	598.44	0.2	3.38	8.61e-04	0.0	0.0
15	2.950	0.339	0.231	452.17	0.1	49.25	1.25e-02	0.66	1.67e-04	0.0	0.0
16	2.964	0.337	0.231	1.01	2.58e-04	0.59	1.51e-04	0.01	3.61e-06	0.0	0.0
17	2.989	0.335	0.231	8.322e+04	21.2	1686.85	0.4	121.46	3.09e-02	0.0	0.0
18	3.087	0.324	0.231	4.251e+04	10.8	5565.71	1.4	36.37	9.26e-03	0.0	0.0
19	3.366	0.297	0.231	146.52	3.73e-02	66.89	1.70e-02	0.10	2.45e-05	0.0	0.0
20	3.468	0.288	0.231	9416.81	2.4	92.05	2.34e-02	65.65	1.67e-02	0.0	0.0
21	3.640	0.275	0.231	16.09	4.09e-03	2.14	5.44e-04	2.56	6.52e-04	0.0	0.0
22	3.669	0.273	0.231	29.67	7.55e-03	0.16	4.11e-05	0.24	6.09e-05	0.0	0.0
23	3.686	0.271	0.231	154.86	3.94e-02	3.64e-03	0.0	0.02	6.09e-06	0.0	0.0
24	4.304	0.232	0.231	3151.63	0.8	0.26	6.66e-05	0.10	2.58e-05	0.0	0.0
25	6.180	0.162	0.231	7.08e-03	1.80e-06	0.0	0.0	4.442e+04	11.3	0.0	0.0
26	6.355	0.157	0.231	2.59e-04	0.0	1.14e-06	0.0	9.291e+04	23.6	0.0	0.0
27	6.426	0.156	0.231	5.01e-03	1.27e-06	2.51e-06	0.0	9.09	2.31e-03	0.0	0.0
28	6.504	0.154	0.231	1.94e-05	0.0	2.17e-06	0.0	5801.83	1.5	0.0	0.0
29	6.561	0.152	0.231	4.85e-03	1.23e-06	0.0	0.0	3052.58	0.8	0.0	0.0
30	7.745	0.129	0.215	3.84	9.77e-04	3.88e-03	0.0	0.02	4.90e-06	0.0	0.0
31	7.771	0.129	0.214	1.65e-04	0.0	2.71e-04	0.0	2.79e-03	0.0	0.0	0.0
32	7.774	0.129	0.214	2.84e-03	0.0	0.0	0.0	5.38e-04	0.0	0.0	0.0
33	7.855	0.127	0.213	0.77	1.95e-04	3.63e-03	0.0	6.25e-04	0.0	0.0	0.0
34	8.074	0.124	0.210	1.81	4.60e-04	0.08	2.04e-05	4.42e-03	1.12e-06	0.0	0.0
35	8.783	0.114	0.200	0.12	3.11e-05	11.25	2.86e-03	0.09	2.28e-05	0.0	0.0
36	9.381	0.107	0.193	62.53	1.59e-02	0.01	3.09e-06	4.205e+04	10.7	0.0	0.0
37	13.337	0.075	0.163	0.07	1.82e-05	4.02	1.02e-03	1.99	5.06e-04	0.0	0.0
38	14.643	0.068	0.157	0.23	5.76e-05	0.0	0.0	5.62	1.43e-03	0.0	0.0
39	14.894	0.067	0.156	1.77	4.52e-04	3.51	8.93e-04	2.076e+04	5.3	0.0	0.0
40	15.109	0.066	0.155	477.58	0.1	5.71e-03	1.45e-06	3.975e+04	10.1	0.0	0.0
41	15.717	0.064	0.153	1.54	3.91e-04	0.0	0.0	8.50	2.16e-03	0.0	0.0
42	15.719	0.064	0.153	0.01	3.23e-06	0.0	0.0	0.71	1.82e-04	0.0	0.0
43	15.719	0.064	0.153	5.45e-03	1.39e-06	0.0	0.0	0.13	3.27e-05	0.0	0.0
44	15.848	0.063	0.152	0.0	0.0	1.40e-04	0.0	6.79e-04	0.0	0.0	0.0
45	15.861	0.063	0.152	1.64e-06	0.0	6.31e-04	0.0	1.01e-03	0.0	0.0	0.0
46	15.875	0.063	0.152	3.65e-06	0.0	0.04	1.11e-05	2.67e-04	0.0	0.0	0.0
47	15.890	0.063	0.152	0.38	9.62e-05	0.0	0.0	0.61	1.55e-04	0.0	0.0
48	16.047	0.062	0.151	0.0	0.0	0.03	7.20e-06	0.0	0.0	0.0	0.0
49	16.695	0.060	0.149	0.07	1.78e-05	0.45	1.15e-04	2.808e+04	7.1	0.0	0.0
50	16.840	0.059	0.149	2.43e-06	0.0	1.52	3.87e-04	8.32e-05	0.0	0.0	0.0
51	18.298	0.055	0.144	0.16	3.97e-05	1155.68	0.3	0.76	1.92e-04	0.0	0.0
52	18.443	0.054	0.144	95.93	2.44e-02	4.05	1.03e-03	450.91	0.1	0.0	0.0
53	19.026	0.053	0.142	4.37e-03	1.11e-06	1.01e-05	0.0	2243.45	0.6	0.0	0.0
54	19.056	0.052	0.142	6.82e-03	1.73e-06	1.51e-05	0.0	339.30	8.64e-02	0.0	0.0
55	19.092	0.052	0.142	3.59e-03	0.0	7.22e-06	0.0	6.517e+04	16.6	0.0	0.0
56	19.288	0.052	0.142	2.49e-04	0.0	0.0	0.0	2.920e+04	7.4	0.0	0.0
57	23.476	0.043	0.133	0.17	4.41e-05	0.0	0.0	1.607e+04	4.1	0.0	0.0
58	26.552	0.038	0.128	4.78e-04	0.0	0.39	9.98e-05	2.09e-04	0.0	0.0	0.0
59	26.558	0.038	0.128	0.03	7.91e-06	3.82e-04	0.0	8.84e-06	0.0	0.0	0.0
60	26.559	0.038	0.128	0.0	0.0	4.95e-03	1.26e-06	5.72e-06	0.0	0.0	0.0
61	26.559	0.038	0.128	3.93e-05	0.0	4.95e-05	0.0	0.0	0.0	0.0	0.0
62	26.574	0.038	0.128	0.03	7.79e-06	4.18e-05	0.0	1.35e-05	0.0	0.0	0.0
63	26.634	0.038	0.128	3.98e-04	0.0	0.04	1.03e-05	4.78e-04	0.0	0.0	0.0
64	26.724	0.037	0.128	2.92e-04	0.0	1.24e-03	0.0	2.91e-04	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
65	26.880	0.037	0.128	8.79e-03	2.24e-06	2.66e-06	0.0	6.15e-06	0.0	0.0	0.0
66	26.973	0.037	0.128	0.0	0.0	0.14	3.47e-05	0.0	0.0	0.0	0.0
67	27.967	0.036	0.126	0.58	1.47e-04	5.45	1.39e-03	0.59	1.49e-04	0.0	0.0
68	30.374	0.033	0.124	1.74e-06	0.0	1.44	3.66e-04	0.0	0.0	0.0	0.0
69	31.421	0.032	0.123	2.14	5.44e-04	4.30	1.09e-03	2.21	5.63e-04	0.0	0.0
70	34.208	0.029	0.120	3.86	9.83e-04	9.13e-03	2.32e-06	0.38	9.71e-05	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.906e+05			
In percentuale				99.87		99.96		99.41			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.231 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.532 sec.
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	1.66	0.0	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	0.32	0.0	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.171	0.854	0.118	1.158e+05	29.5	0.04	9.96e-06	0.13	3.33e-05	0.0	0.0
2	1.218	0.821	0.123	8.686e+04	22.1	0.06	1.44e-05	0.14	3.67e-05	0.0	0.0
3	1.246	0.802	0.126	18.11	4.61e-03	1.66e-03	0.0	8.71e-03	2.22e-06	0.0	0.0
4	1.249	0.800	0.126	68.13	1.73e-02	1.10e-04	0.0	3.44e-04	0.0	0.0	0.0
5	1.259	0.795	0.127	2096.76	0.5	2.74e-04	0.0	4.22e-05	0.0	0.0	0.0
6	1.643	0.608	0.166	3.993e+04	10.2	3.04	7.74e-04	30.27	7.70e-03	0.0	0.0
7	1.880	0.532	0.190	4.73e-06	0.0	1.706e+05	43.4	0.0	0.0	0.0	0.0
8	1.994	0.501	0.201	6.37e-05	0.0	1.779e+04	4.5	2.79e-05	0.0	0.0	0.0
9	2.075	0.482	0.209	2.60e-04	0.0	3.912e+04	10.0	4.07e-06	0.0	0.0	0.0
10	2.116	0.473	0.213	0.02	5.54e-06	3.192e+04	8.1	5.93e-04	0.0	0.0	0.0
11	2.265	0.442	0.228	1.48	3.77e-04	4.213e+04	10.7	0.02	3.92e-06	0.0	0.0
12	2.414	0.414	0.231	50.13	1.28e-02	6.854e+04	17.4	0.28	7.05e-05	0.0	0.0
13	2.646	0.378	0.231	95.28	2.43e-02	1.104e+04	2.8	0.04	9.13e-06	0.0	0.0
14	2.929	0.341	0.231	663.83	0.2	548.43	0.1	0.78	1.98e-04	0.0	0.0
15	2.963	0.337	0.231	221.95	5.65e-02	41.95	1.07e-02	0.27	6.78e-05	0.0	0.0
16	2.977	0.336	0.231	2.21e-03	0.0	0.24	6.10e-05	2.28e-06	0.0	0.0	0.0
17	2.995	0.334	0.231	1.225e+05	31.2	856.13	0.2	148.20	3.77e-02	0.0	0.0
18	3.114	0.321	0.231	1.011e+04	2.6	9186.16	2.3	10.83	2.76e-03	0.0	0.0
19	3.376	0.296	0.231	23.02	5.86e-03	75.13	1.91e-02	0.02	4.29e-06	0.0	0.0
20	3.436	0.291	0.231	9840.86	2.5	10.83	2.76e-03	66.89	1.70e-02	0.0	0.0
21	3.606	0.277	0.231	16.83	4.28e-03	0.14	3.54e-05	2.59	6.60e-04	0.0	0.0
22	3.634	0.275	0.231	30.50	7.76e-03	8.67e-03	2.21e-06	0.24	6.19e-05	0.0	0.0
23	3.652	0.274	0.231	163.37	4.16e-02	3.05e-05	0.0	0.02	6.30e-06	0.0	0.0
24	4.272	0.234	0.231	3295.85	0.8	3.60e-03	0.0	0.11	2.72e-05	0.0	0.0
25	6.133	0.163	0.231	9.75e-03	2.48e-06	0.0	0.0	4.278e+04	10.9	0.0	0.0
26	6.363	0.157	0.231	1.30e-04	0.0	0.0	0.0	8.680e+04	22.1	0.0	0.0
27	6.444	0.155	0.231	5.56e-03	1.41e-06	0.0	0.0	5455.11	1.4	0.0	0.0
28	6.512	0.154	0.231	4.43e-04	0.0	0.0	0.0	1.016e+04	2.6	0.0	0.0
29	6.555	0.153	0.231	3.93e-03	0.0	0.0	0.0	843.54	0.2	0.0	0.0
30	7.714	0.130	0.215	0.01	3.42e-06	3.97e-03	1.01e-06	3.70e-04	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
31	7.739	0.129	0.215	3.88e-04	0.0	2.62e-04	0.0	1.09e-05	0.0	0.0	0.0
32	7.742	0.129	0.215	2.69e-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	7.823	0.128	0.214	1.10e-03	0.0	3.62e-03	0.0	3.50e-05	0.0	0.0	0.0
34	8.046	0.124	0.210	2.28e-03	0.0	0.08	2.03e-05	9.87e-05	0.0	0.0	0.0
35	8.759	0.114	0.201	0.13	3.39e-05	7.89	2.01e-03	0.02	5.69e-06	0.0	0.0
36	9.409	0.106	0.193	64.14	1.63e-02	6.51e-03	1.66e-06	4.260e+04	10.8	0.0	0.0
37	13.343	0.075	0.163	4.96e-03	1.26e-06	2.11	5.37e-04	0.57	1.46e-04	0.0	0.0
38	14.627	0.068	0.157	0.17	4.34e-05	2.35e-06	0.0	4.16	1.06e-03	0.0	0.0
39	14.895	0.067	0.156	1.43	3.63e-04	4.26	1.08e-03	2.111e+04	5.4	0.0	0.0
40	15.158	0.066	0.155	478.72	0.1	6.75e-03	1.72e-06	3.884e+04	9.9	0.0	0.0
41	15.725	0.064	0.153	1.66	4.23e-04	8.31e-06	0.0	9.54	2.43e-03	0.0	0.0
42	15.727	0.064	0.153	0.01	3.77e-06	0.0	0.0	0.78	2.00e-04	0.0	0.0
43	15.727	0.064	0.153	6.14e-03	1.56e-06	0.0	0.0	0.14	3.57e-05	0.0	0.0
44	15.851	0.063	0.152	0.0	0.0	1.62e-03	0.0	3.75e-04	0.0	0.0	0.0
45	15.864	0.063	0.152	0.0	0.0	1.22e-03	0.0	1.06e-03	0.0	0.0	0.0
46	15.878	0.063	0.152	0.0	0.0	0.05	1.26e-05	7.99e-04	0.0	0.0	0.0
47	15.898	0.063	0.152	0.40	1.03e-04	1.17e-06	0.0	0.67	1.69e-04	0.0	0.0
48	16.041	0.062	0.152	0.0	0.0	0.03	7.18e-06	0.0	0.0	0.0	0.0
49	16.696	0.060	0.149	0.07	1.87e-05	1.07	2.72e-04	2.808e+04	7.1	0.0	0.0
50	16.824	0.059	0.149	0.0	0.0	1.51	3.83e-04	6.42e-05	0.0	0.0	0.0
51	18.444	0.054	0.144	94.84	2.41e-02	1.82e-05	0.0	459.62	0.1	0.0	0.0
52	18.988	0.053	0.142	8.73e-05	0.0	0.0	0.0	3311.22	0.8	0.0	0.0
53	19.048	0.053	0.142	1.88e-04	0.0	0.0	0.0	3.863e+04	9.8	0.0	0.0
54	19.194	0.052	0.142	1.07e-04	0.0	0.0	0.0	2.453e+04	6.2	0.0	0.0
55	19.385	0.052	0.141	0.01	2.90e-06	0.0	0.0	3.011e+04	7.7	0.0	0.0
56	20.166	0.050	0.139	1.54e-03	0.0	839.59	0.2	0.02	4.77e-06	0.0	0.0
57	22.926	0.044	0.134	0.18	4.59e-05	0.0	0.0	1.646e+04	4.2	0.0	0.0
58	26.398	0.038	0.128	1.18e-05	0.0	7.34e-06	0.0	6.70e-06	0.0	0.0	0.0
59	26.399	0.038	0.128	0.0	0.0	2.74e-06	0.0	0.0	0.0	0.0	0.0
60	26.399	0.038	0.128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	26.502	0.038	0.128	4.08e-06	0.0	2.95e-04	0.0	2.35e-06	0.0	0.0	0.0
62	26.564	0.038	0.128	0.0	0.0	0.41	1.05e-04	0.0	0.0	0.0	0.0
63	26.716	0.037	0.128	0.0	0.0	0.03	7.37e-06	0.0	0.0	0.0	0.0
64	26.719	0.037	0.128	2.04e-06	0.0	8.17e-05	0.0	1.30e-06	0.0	0.0	0.0
65	26.821	0.037	0.128	0.0	0.0	0.12	3.15e-05	0.0	0.0	0.0	0.0
66	26.865	0.037	0.128	3.82e-06	0.0	2.92e-03	0.0	5.43e-06	0.0	0.0	0.0
67	28.063	0.036	0.126	1.53e-03	0.0	6.54	1.67e-03	1.74e-03	0.0	0.0	0.0
68	30.076	0.033	0.124	0.0	0.0	1.46	3.71e-04	0.0	0.0	0.0	0.0
69	31.341	0.032	0.123	1.22e-03	0.0	4.15	1.06e-03	5.62e-04	0.0	0.0	0.0
70	34.312	0.029	0.120	20.22	5.15e-03	1.57e-03	0.0	0.92	2.34e-04	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.904e+05			
In percentuale				99.88		99.95		99.37			

CDC	Tipo	Sigla Id	Note
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.231 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.542 sec.
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	-1.66	0.0	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	-1.66	0.0	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	-0.32	0.0	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.171	0.854	0.118	1.158e+05	29.5	0.05	1.19e-05	0.13	3.34e-05	0.0	0.0
2	1.218	0.821	0.123	8.686e+04	22.1	0.07	1.74e-05	0.14	3.67e-05	0.0	0.0
3	1.246	0.802	0.126	18.11	4.61e-03	2.02e-03	0.0	8.71e-03	2.22e-06	0.0	0.0
4	1.249	0.800	0.126	68.13	1.73e-02	1.33e-04	0.0	3.44e-04	0.0	0.0	0.0
5	1.259	0.795	0.127	2096.76	0.5	3.38e-04	0.0	4.19e-05	0.0	0.0	0.0
6	1.643	0.608	0.166	3.993e+04	10.2	5.22	1.33e-03	30.27	7.71e-03	0.0	0.0
7	1.844	0.542	0.186	0.07	1.89e-05	1.534e+05	39.1	3.44e-04	0.0	0.0	0.0
8	1.962	0.510	0.198	1.57e-04	0.0	3.178e+04	8.1	2.21e-04	0.0	0.0	0.0
9	2.077	0.481	0.210	2.51e-04	0.0	3.475e+04	8.8	2.01e-05	0.0	0.0	0.0
10	2.240	0.446	0.226	3.33e-03	0.0	2.595e+04	6.6	2.33e-05	0.0	0.0	0.0
11	2.280	0.439	0.230	12.63	3.21e-03	1.106e+05	28.2	0.18	4.50e-05	0.0	0.0
12	2.586	0.387	0.231	5.84	1.49e-03	2.688e+04	6.8	3.67e-03	0.0	0.0	0.0
13	2.625	0.381	0.231	163.87	4.17e-02	1564.00	0.4	0.12	3.08e-05	0.0	0.0
14	2.925	0.342	0.231	1718.06	0.4	743.33	0.2	2.09	5.33e-04	0.0	0.0
15	2.963	0.338	0.231	913.16	0.2	81.41	2.07e-02	1.12	2.85e-04	0.0	0.0
16	2.977	0.336	0.231	0.03	7.90e-06	0.50	1.28e-04	3.66e-05	0.0	0.0	0.0
17	2.987	0.335	0.231	9.214e+04	23.5	1437.02	0.4	112.41	2.86e-02	0.0	0.0
18	3.050	0.328	0.231	3.861e+04	9.8	3929.77	1.0	44.64	1.14e-02	0.0	0.0
19	3.376	0.296	0.231	14.06	3.58e-03	56.00	1.43e-02	0.01	3.67e-06	0.0	0.0
20	3.436	0.291	0.231	9901.49	2.5	4.39	1.12e-03	66.68	1.70e-02	0.0	0.0
21	3.606	0.277	0.231	16.74	4.26e-03	0.07	1.78e-05	2.59	6.59e-04	0.0	0.0
22	3.634	0.275	0.231	30.53	7.77e-03	4.46e-03	1.14e-06	0.24	6.14e-05	0.0	0.0
23	3.652	0.274	0.231	163.37	4.16e-02	1.65e-05	0.0	0.02	6.20e-06	0.0	0.0
24	4.272	0.234	0.231	3295.91	0.8	2.77e-03	0.0	0.11	2.76e-05	0.0	0.0
25	6.228	0.161	0.231	4.95e-03	1.26e-06	0.0	0.0	4.700e+04	12.0	0.0	0.0
26	6.326	0.158	0.231	1.59e-03	0.0	0.0	0.0	8.061e+04	20.5	0.0	0.0
27	6.407	0.156	0.231	3.34e-03	0.0	0.0	0.0	6918.66	1.8	0.0	0.0
28	6.487	0.154	0.231	1.42e-05	0.0	0.0	0.0	5898.85	1.5	0.0	0.0
29	6.599	0.152	0.231	5.19e-03	1.32e-06	0.0	0.0	5973.26	1.5	0.0	0.0
30	7.714	0.130	0.215	0.01	3.43e-06	4.16e-03	1.06e-06	3.67e-04	0.0	0.0	0.0
31	7.739	0.129	0.215	3.89e-04	0.0	2.61e-04	0.0	1.09e-05	0.0	0.0	0.0
32	7.742	0.129	0.215	2.70e-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	7.823	0.128	0.214	1.10e-03	0.0	3.71e-03	0.0	3.48e-05	0.0	0.0	0.0
34	8.046	0.124	0.210	2.28e-03	0.0	0.08	2.12e-05	9.80e-05	0.0	0.0	0.0
35	8.745	0.114	0.201	0.12	3.09e-05	16.17	4.12e-03	0.02	5.01e-06	0.0	0.0
36	9.353	0.107	0.194	60.85	1.55e-02	6.16e-03	1.57e-06	4.150e+04	10.6	0.0	0.0
37	13.332	0.075	0.164	5.54e-03	1.41e-06	6.75	1.72e-03	0.68	1.74e-04	0.0	0.0
38	14.627	0.068	0.157	0.22	5.49e-05	4.00e-06	0.0	6.40	1.63e-03	0.0	0.0
39	14.894	0.067	0.156	2.55	6.50e-04	2.37	6.04e-04	2.000e+04	5.1	0.0	0.0
40	15.060	0.066	0.155	475.89	0.1	6.77e-03	1.72e-06	4.107e+04	10.5	0.0	0.0
41	15.725	0.064	0.153	1.53	3.88e-04	1.05e-05	0.0	6.97	1.77e-03	0.0	0.0
42	15.727	0.064	0.153	0.01	2.71e-06	0.0	0.0	0.61	1.55e-04	0.0	0.0
43	15.727	0.064	0.153	5.02e-03	1.28e-06	0.0	0.0	0.11	2.84e-05	0.0	0.0
44	15.844	0.063	0.152	0.0	0.0	4.02e-03	1.02e-06	3.40e-05	0.0	0.0	0.0
45	15.858	0.063	0.152	0.0	0.0	2.07e-03	0.0	1.94e-05	0.0	0.0	0.0
46	15.873	0.063	0.152	0.0	0.0	0.03	8.48e-06	1.61e-05	0.0	0.0	0.0
47	15.898	0.063	0.152	0.39	9.87e-05	1.78e-06	0.0	0.51	1.31e-04	0.0	0.0
48	16.053	0.062	0.151	0.0	0.0	0.03	7.26e-06	0.0	0.0	0.0	0.0
49	16.694	0.060	0.149	0.08	2.05e-05	2.83	7.21e-04	2.798e+04	7.1	0.0	0.0
50	16.856	0.059	0.149	0.0	0.0	1.58	4.03e-04	4.01e-04	0.0	0.0	0.0
51	17.043	0.059	0.148	3.79e-03	0.0	1432.95	0.4	100.36	2.55e-02	0.0	0.0
52	18.442	0.054	0.144	96.76	2.46e-02	2.04e-04	0.0	450.14	0.1	0.0	0.0
53	18.735	0.053	0.143	0.02	5.40e-06	0.0	0.0	1.951e+04	5.0	0.0	0.0
54	18.930	0.053	0.142	3.76e-04	0.0	0.0	0.0	2.420e+04	6.2	0.0	0.0
55	19.122	0.052	0.142	1.65e-05	0.0	0.0	0.0	2.771e+04	7.1	0.0	0.0
56	19.543	0.051	0.141	2.48e-04	0.0	0.0	0.0	2.585e+04	6.6	0.0	0.0
57	24.033	0.042	0.132	0.17	4.23e-05	0.0	0.0	1.564e+04	4.0	0.0	0.0
58	26.398	0.038	0.128	1.22e-05	0.0	4.46e-04	0.0	6.57e-06	0.0	0.0	0.0
59	26.399	0.038	0.128	0.0	0.0	3.16e-04	0.0	0.0	0.0	0.0	0.0
60	26.399	0.038	0.128	0.0	0.0	1.69e-04	0.0	0.0	0.0	0.0	0.0
61	26.411	0.038	0.128	2.00e-06	0.0	0.16	4.16e-05	2.37e-06	0.0	0.0	0.0
62	26.502	0.038	0.128	4.03e-06	0.0	1.40e-04	0.0	2.20e-06	0.0	0.0	0.0
63	26.561	0.038	0.128	0.0	0.0	0.20	5.09e-05	0.0	0.0	0.0	0.0
64	26.703	0.037	0.128	0.0	0.0	0.07	1.75e-05	0.0	0.0	0.0	0.0
65	26.719	0.037	0.128	1.91e-06	0.0	1.49e-04	0.0	1.06e-06	0.0	0.0	0.0
66	27.128	0.037	0.127	0.0	0.0	0.15	3.78e-05	0.0	0.0	0.0	0.0
67	27.871	0.036	0.126	1.43e-03	0.0	4.94	1.26e-03	1.37e-03	0.0	0.0	0.0
68	30.675	0.033	0.123	0.0	0.0	1.43	3.63e-04	0.0	0.0	0.0	0.0
69	31.301	0.032	0.123	1.31e-03	0.0	4.63	1.18e-03	5.76e-04	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
70	32.827	0.030	0.121	0.14	3.67e-05	0.02	4.17e-06	2.15	5.46e-04	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.907e+05			
In percentuale				99.87		99.96		99.44			

CDC	Tipo	Sigla Id	Note
14	Edk	CDC=Ed (dinamico SLU) verticale	
			categoria suolo: C
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.140 g
			fattore q: 1.500
			classe di duttilità CD: ND
			numero di modi considerati: 70
			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
m	daN	m	m	m	m	m	m			
6.61	6629.98	27.49	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.27	5.261e+04	23.67	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.20	9052.73	27.29	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.80	9889.33	27.21	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.69	4.823e+04	23.65	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.39	1.090e+04	26.93	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.10	5.195e+04	23.54	5.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	9.387e+04	24.82	5.75	0.0	0.0	23.14	5.75	1.578	0.132	0.0
4.00	1.098e+05	3.32	5.75	0.0	0.0	3.23	5.75	3.000	0.014	0.0
Risulta	3.929e+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	1.171	0.854	0.032	1.158e+05	29.5	0.04	1.09e-05	0.13	3.34e-05	0.0	0.0
2	1.218	0.821	0.032	8.686e+04	22.1	0.06	1.58e-05	0.14	3.67e-05	0.0	0.0
3	1.246	0.802	0.032	18.11	4.61e-03	1.82e-03	0.0	8.71e-03	2.22e-06	0.0	0.0
4	1.249	0.800	0.032	68.13	1.73e-02	1.21e-04	0.0	3.44e-04	0.0	0.0	0.0
5	1.259	0.795	0.032	2096.76	0.5	3.03e-04	0.0	4.21e-05	0.0	0.0	0.0
6	1.643	0.608	0.035	3.993e+04	10.2	3.75	9.54e-04	30.27	7.70e-03	0.0	0.0
7	1.942	0.515	0.041	9.45e-04	0.0	2.263e+05	57.6	1.95e-04	0.0	0.0	0.0
8	2.007	0.498	0.042	2.03e-03	0.0	154.37	3.93e-02	7.21e-04	0.0	0.0	0.0
9	2.075	0.482	0.044	0.01	3.77e-06	2.863e+04	7.3	9.14e-04	0.0	0.0	0.0
10	2.120	0.472	0.045	0.02	4.10e-06	414.25	0.1	4.55e-04	0.0	0.0	0.0
11	2.286	0.437	0.048	0.06	1.50e-05	2.150e+04	5.5	2.31e-04	0.0	0.0	0.0
12	2.345	0.426	0.049	25.52	6.49e-03	9.945e+04	25.3	0.22	5.65e-05	0.0	0.0
13	2.633	0.380	0.055	137.95	3.51e-02	7027.58	1.8	0.08	2.11e-05	0.0	0.0
14	2.928	0.342	0.061	1079.74	0.3	604.89	0.2	1.29	3.29e-04	0.0	0.0
15	2.963	0.337	0.062	427.97	0.1	52.72	1.34e-02	0.52	1.32e-04	0.0	0.0
16	2.977	0.336	0.063	7.35e-03	1.87e-06	0.31	7.99e-05	8.25e-06	0.0	0.0	0.0
17	2.992	0.334	0.063	1.121e+05	28.5	1089.23	0.3	136.12	3.46e-02	0.0	0.0
18	3.077	0.325	0.065	1.980e+04	5.0	6252.90	1.6	22.26	5.67e-03	0.0	0.0
19	3.376	0.296	0.071	17.44	4.44e-03	56.72	1.44e-02	0.02	3.91e-06	0.0	0.0
20	3.436	0.291	0.072	9876.36	2.5	6.47	1.65e-03	66.78	1.70e-02	0.0	0.0
21	3.606	0.277	0.076	16.78	4.27e-03	0.09	2.40e-05	2.59	6.59e-04	0.0	0.0
22	3.634	0.275	0.076	30.51	7.77e-03	5.95e-03	1.51e-06	0.24	6.16e-05	0.0	0.0
23	3.652	0.274	0.077	163.37	4.16e-02	2.15e-05	0.0	0.02	6.25e-06	0.0	0.0
24	4.272	0.234	0.090	3295.88	0.8	3.10e-03	0.0	0.11	2.74e-05	0.0	0.0
25	6.180	0.162	0.130	7.16e-03	1.82e-06	0.0	0.0	4.442e+04	11.3	0.0	0.0
26	6.355	0.157	0.133	2.62e-04	0.0	0.0	0.0	9.291e+04	23.6	0.0	0.0
27	6.426	0.156	0.135	4.98e-03	1.27e-06	0.0	0.0	9.08	2.31e-03	0.0	0.0
28	6.504	0.154	0.137	2.04e-05	0.0	0.0	0.0	5801.85	1.5	0.0	0.0
29	6.561	0.152	0.138	4.81e-03	1.23e-06	0.0	0.0	3052.58	0.8	0.0	0.0
30	7.714	0.130	0.140	0.01	3.43e-06	3.83e-03	0.0	3.69e-04	0.0	0.0	0.0
31	7.739	0.129	0.140	3.89e-04	0.0	2.69e-04	0.0	1.09e-05	0.0	0.0	0.0
32	7.742	0.129	0.140	2.69e-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	7.823	0.128	0.140	1.10e-03	0.0	3.59e-03	0.0	3.49e-05	0.0	0.0	0.0
34	8.046	0.124	0.140	2.28e-03	0.0	0.08	2.05e-05	9.84e-05	0.0	0.0	0.0
35	8.752	0.114	0.140	0.13	3.24e-05	11.22	2.86e-03	0.02	5.32e-06	0.0	0.0
36	9.381	0.107	0.140	62.49	1.59e-02	6.32e-03	1.61e-06	4.205e+04	10.7	0.0	0.0

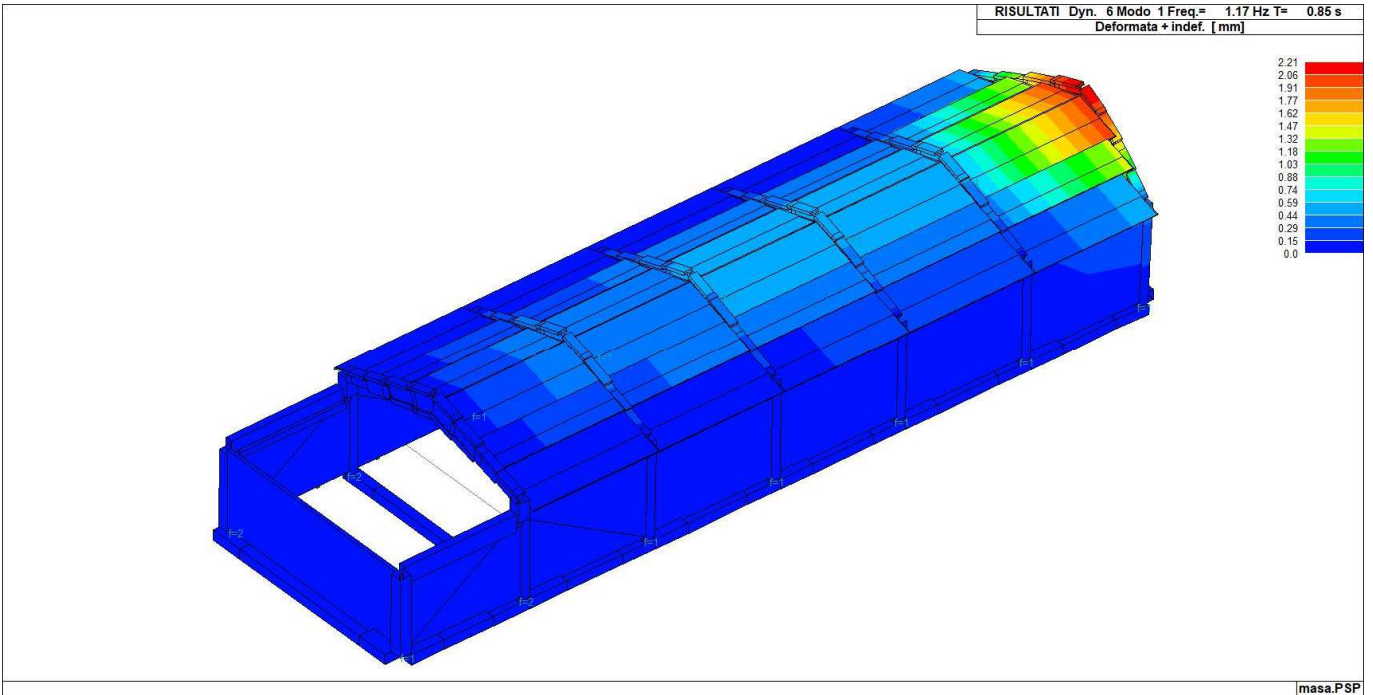
Modo	Frequenza	Periodo	Acc. Spetttrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
37	13.337	0.075	0.140	5.20e-03	1.32e-06	4.05	1.03e-03	0.63	1.60e-04	0.0	0.0
38	14.627	0.068	0.140	0.19	4.84e-05	3.01e-06	0.0	5.11	1.30e-03	0.0	0.0
39	14.894	0.067	0.140	1.83	4.65e-04	3.47	8.82e-04	2.068e+04	5.3	0.0	0.0
40	15.109	0.066	0.140	477.52	0.1	7.20e-03	1.83e-06	3.983e+04	10.1	0.0	0.0
41	15.725	0.064	0.140	1.59	4.04e-04	8.81e-06	0.0	8.11	2.07e-03	0.0	0.0
42	15.727	0.064	0.140	0.01	3.17e-06	0.0	0.0	0.68	1.74e-04	0.0	0.0
43	15.727	0.064	0.140	5.51e-03	1.40e-06	0.0	0.0	0.12	3.15e-05	0.0	0.0
44	15.848	0.063	0.140	0.0	0.0	1.40e-04	0.0	4.54e-04	0.0	0.0	0.0
45	15.861	0.063	0.140	0.0	0.0	6.30e-04	0.0	5.76e-04	0.0	0.0	0.0
46	15.875	0.063	0.140	0.0	0.0	0.04	1.11e-05	2.79e-04	0.0	0.0	0.0
47	15.898	0.063	0.140	0.40	1.01e-04	1.32e-06	0.0	0.58	1.48e-04	0.0	0.0
48	16.047	0.062	0.140	0.0	0.0	0.03	7.20e-06	0.0	0.0	0.0	0.0
49	16.695	0.060	0.140	0.08	1.93e-05	0.45	1.16e-04	2.807e+04	7.1	0.0	0.0
50	16.840	0.059	0.140	0.0	0.0	1.52	3.87e-04	6.83e-05	0.0	0.0	0.0
51	18.293	0.055	0.140	1.79e-03	0.0	1160.27	0.3	1.06	2.69e-04	0.0	0.0
52	18.443	0.054	0.140	95.80	2.44e-02	3.37e-03	0.0	451.28	0.1	0.0	0.0
53	19.026	0.053	0.140	4.37e-03	1.11e-06	0.0	0.0	2243.44	0.6	0.0	0.0
54	19.056	0.052	0.140	6.81e-03	1.73e-06	0.0	0.0	339.30	8.64e-02	0.0	0.0
55	19.092	0.052	0.140	3.58e-03	0.0	0.0	0.0	6.517e+04	16.6	0.0	0.0
56	19.288	0.052	0.140	2.49e-04	0.0	0.0	0.0	2.920e+04	7.4	0.0	0.0
57	23.476	0.043	0.132	0.17	4.41e-05	0.0	0.0	1.607e+04	4.1	0.0	0.0
58	26.398	0.038	0.127	1.18e-05	0.0	8.13e-06	0.0	6.47e-06	0.0	0.0	0.0
59	26.399	0.038	0.127	0.0	0.0	8.14e-06	0.0	0.0	0.0	0.0	0.0
60	26.399	0.038	0.127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	26.502	0.038	0.127	4.08e-06	0.0	2.71e-04	0.0	2.30e-06	0.0	0.0	0.0
62	26.553	0.038	0.127	0.0	0.0	0.40	1.01e-04	0.0	0.0	0.0	0.0
63	26.634	0.038	0.127	1.94e-06	0.0	0.04	1.03e-05	2.48e-06	0.0	0.0	0.0
64	26.719	0.037	0.127	2.17e-06	0.0	0.0	0.0	1.33e-06	0.0	0.0	0.0
65	26.724	0.037	0.127	0.0	0.0	1.25e-03	0.0	1.22e-06	0.0	0.0	0.0
66	26.973	0.037	0.127	0.0	0.0	0.14	3.47e-05	0.0	0.0	0.0	0.0
67	27.960	0.036	0.125	1.48e-03	0.0	5.35	1.36e-03	1.53e-03	0.0	0.0	0.0
68	30.374	0.033	0.122	0.0	0.0	1.44	3.66e-04	0.0	0.0	0.0	0.0
69	31.317	0.032	0.121	1.26e-03	0.0	4.36	1.11e-03	5.86e-04	0.0	0.0	0.0
70	34.208	0.029	0.118	3.83	9.74e-04	0.01	2.72e-06	0.39	9.99e-05	0.0	0.0
Risulta				3.924e+05		3.927e+05		3.906e+05			
In percentuale				99.87		99.96		99.41			

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
		mm	cm			mm	cm			mm	cm	
93	1	0.82	3.28	400.0	2	1.25	5.02	400.0	3	1.13	4.52	400.0
	4	1.39	5.55	400.0	5	1.58	7.89	500.0	6	1.50	7.48	500.0
	7	1.58	7.92	500.0	8	1.50	7.50	500.0	9	1.63	8.14	500.0
	10	1.52	7.60	500.0	11	1.66	8.32	500.0	12	1.50	7.50	500.0
	13	1.38	6.91	500.0	14	1.17	5.86	500.0	24	1.52	1.52	100.0
	25	1.49	1.49	100.0								
94	1	1.48	5.91	400.0	2	1.32	5.29	400.0	3	1.20	4.78	400.0
	4	0.97	3.88	400.0	5	1.46	7.31	500.0	6	1.55	7.76	500.0
	7	1.46	7.29	500.0	8	1.60	7.99	500.0	9	1.47	7.34	500.0
	10	1.66	8.28	500.0	11	1.44	7.22	500.0	12	1.70	8.52	500.0
	13	1.11	5.56	500.0	14	1.47	7.36	500.0	24	1.27	1.27	100.0
	25	1.26	1.26	100.0								
95	1	1.99	7.97	400.0	2	1.78	7.10	400.0	3	1.85	7.38	400.0
	4	1.51	6.02	400.0	5	1.75	8.76	500.0	6	1.31	6.56	500.0
	7	1.76	8.82	500.0	8	1.34	6.68	500.0	9	1.80	9.01	500.0
	10	1.36	6.82	500.0	11	1.82	9.08	500.0	12	1.37	6.83	500.0
	13	1.49	7.44	500.0	14	1.50	7.48	500.0	24	2.75	2.75	100.0
	25	2.23	2.23	100.0								
96	1	1.43	5.73	400.0	2	1.87	7.47	400.0	3	1.57	6.30	400.0
	4	2.03	8.14	400.0	5	1.32	6.58	500.0	6	1.80	9.01	500.0
	7	1.31	6.55	500.0	8	1.81	9.03	500.0	9	1.33	6.63	500.0
	10	1.85	9.23	500.0	11	1.32	6.58	500.0	12	1.86	9.30	500.0
	13	1.40	7.01	500.0	14	1.53	7.67	500.0	24	2.22	2.22	100.0
	25	3.03	3.03	100.0								
97	1	0.85	3.39	400.0	2	1.23	4.90	400.0	3	1.21	4.83	400.0
	4	1.40	5.62	400.0	5	1.75	8.76	500.0	6	1.54	7.70	500.0
	7	1.66	8.30	500.0	8	1.50	7.50	500.0	9	1.60	7.99	500.0
	10	1.48	7.40	500.0	11	1.50	7.51	500.0	12	1.41	7.03	500.0
	13	1.29	6.43	500.0	14	1.13	5.67	500.0	24	1.65	1.65	100.0
	25	1.51	1.51	100.0								

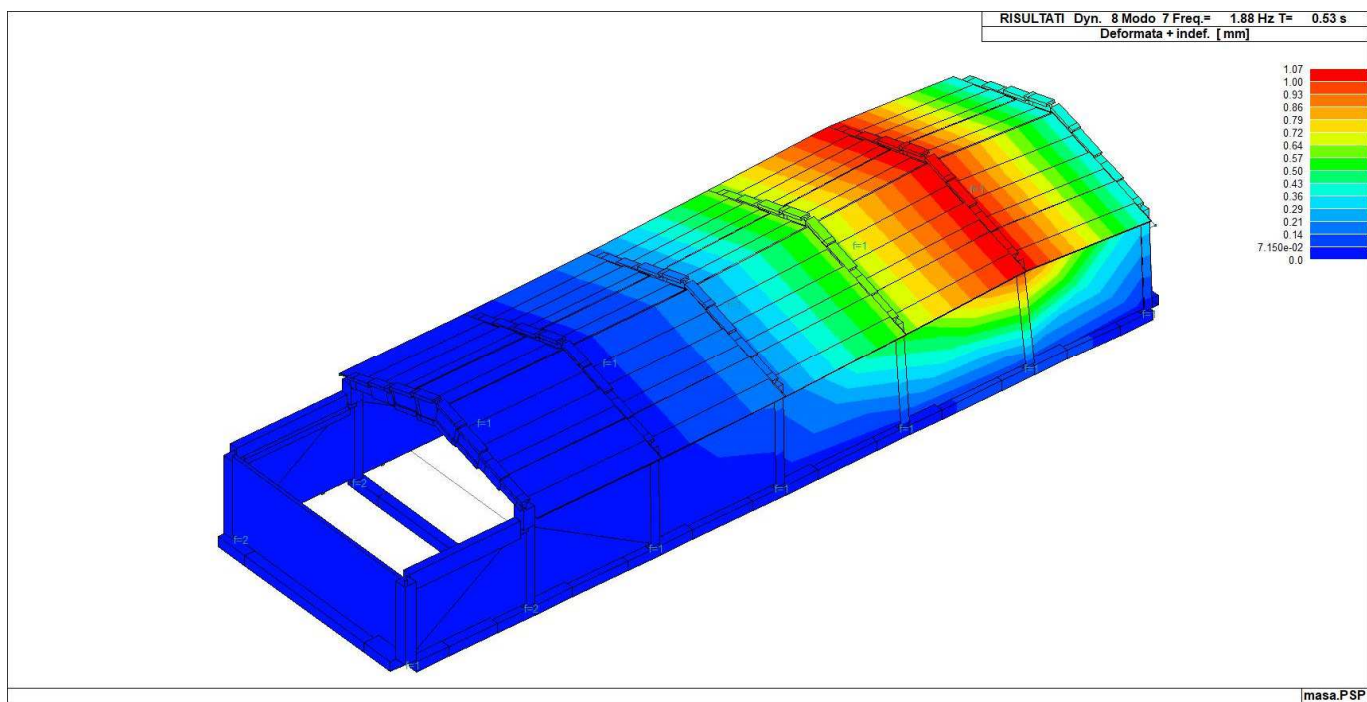
Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
98	1	1.52	6.06	400.0	2	1.43	5.71	400.0	3	1.20	4.79	400.0
	4	1.04	4.15	400.0	5	1.50	7.51	500.0	6	1.72	8.62	500.0
	7	1.46	7.30	500.0	8	1.68	8.38	500.0	9	1.43	7.16	500.0
	10	1.63	8.15	500.0	11	1.35	6.74	500.0	12	1.55	7.74	500.0
	13	1.06	5.32	500.0	14	1.38	6.89	500.0	24	1.25	1.25	100.0
99	25	1.38	1.38	100.0								
	1	2.01	8.05	400.0	2	1.86	7.45	400.0	3	1.85	7.38	400.0
	4	1.55	6.21	400.0	5	1.87	9.35	500.0	6	1.41	7.03	500.0
	7	1.80	9.00	500.0	8	1.38	6.92	500.0	9	1.75	8.73	500.0
	10	1.37	6.84	500.0	11	1.64	8.20	500.0	12	1.30	6.52	500.0
100	13	1.40	7.01	500.0	14	1.45	7.25	500.0	24	2.77	2.77	100.0
	25	2.28	2.28	100.0								
	1	1.46	5.84	400.0	2	1.84	7.35	400.0	3	1.63	6.53	400.0
	4	2.04	8.18	400.0	5	1.42	7.08	500.0	6	1.92	9.60	500.0
	7	1.36	6.79	500.0	8	1.84	9.20	500.0	9	1.33	6.63	500.0
101	10	1.79	8.94	500.0	11	1.25	6.25	500.0	12	1.69	8.43	500.0
	13	1.36	6.80	500.0	14	1.46	7.29	500.0	24	2.28	2.28	100.0
	25	3.06	3.06	100.0								
	1	1.16	4.65	400.0	2	1.45	5.80	400.0	3	1.01	4.05	400.0
	4	1.31	5.25	400.0	5	1.54	7.71	500.0	6	1.46	7.32	500.0
102	7	1.59	7.93	500.0	8	1.46	7.29	500.0	9	1.65	8.23	500.0
	10	1.47	7.35	500.0	11	1.69	8.47	500.0	12	1.45	7.23	500.0
	13	1.46	7.30	500.0	14	1.10	5.48	500.0	24	1.30	1.30	100.0
	25	1.39	1.39	100.0								
	1	1.22	4.89	400.0	2	0.90	3.59	400.0	3	1.33	5.32	400.0
103	4	1.13	4.53	400.0	5	1.46	7.28	500.0	6	1.56	7.78	500.0
	7	1.47	7.35	500.0	8	1.57	7.86	500.0	9	1.49	7.47	500.0
	10	1.62	8.09	500.0	11	1.48	7.39	500.0	12	1.66	8.29	500.0
	13	1.17	5.86	500.0	14	1.40	7.01	500.0	24	1.40	1.40	100.0
	25	1.49	1.49	100.0								
104	1	1.83	7.33	400.0	2	1.50	6.00	400.0	3	1.97	7.89	400.0
	4	1.60	6.38	400.0	5	1.76	8.81	500.0	6	1.30	6.48	500.0
	7	1.78	8.89	500.0	8	1.30	6.49	500.0	9	1.82	9.11	500.0
	10	1.32	6.58	500.0	11	1.84	9.21	500.0	12	1.31	6.55	500.0
	13	1.53	7.67	500.0	14	1.42	7.08	500.0	24	2.93	2.93	100.0
105	25	2.25	2.25	100.0								
	1	1.68	6.70	400.0	2	2.01	8.06	400.0	3	1.54	6.15	400.0
	4	1.97	7.87	400.0	5	1.29	6.47	500.0	6	1.76	8.80	500.0
	7	1.32	6.59	500.0	8	1.77	8.84	500.0	9	1.35	6.74	500.0
	10	1.80	9.02	500.0	11	1.35	6.76	500.0	12	1.82	9.09	500.0
106	13	1.48	7.41	500.0	14	1.47	7.34	500.0	24	2.23	2.23	100.0
	25	2.90	2.90	100.0								
	1	1.24	4.97	400.0	2	1.47	5.89	400.0	3	1.08	4.32	400.0
	4	1.31	5.25	400.0	5	1.71	8.57	500.0	6	1.50	7.51	500.0
	7	1.66	8.31	500.0	8	1.46	7.30	500.0	9	1.62	8.09	500.0
107	10	1.43	7.16	500.0	11	1.53	7.67	500.0	12	1.35	6.74	500.0
	13	1.37	6.83	500.0	14	1.05	5.27	500.0	24	1.42	1.42	100.0
	25	1.38	1.38	100.0								
	1	1.21	4.84	400.0	2	0.95	3.78	400.0	3	1.35	5.39	400.0
	4	1.21	4.83	400.0	5	1.50	7.51	500.0	6	1.73	8.67	500.0
108	7	1.47	7.36	500.0	8	1.65	8.25	500.0	9	1.46	7.28	500.0
	10	1.59	7.96	500.0	11	1.38	6.92	500.0	12	1.50	7.49	500.0
	13	1.13	5.66	500.0	14	1.30	6.52	500.0	24	1.42	1.42	100.0
	25	1.61	1.61	100.0								
	1	1.82	7.26	400.0	2	1.54	6.16	400.0	3	1.98	7.93	400.0
109	4	1.65	6.61	400.0	5	1.88	9.42	500.0	6	1.40	6.99	500.0
	7	1.81	9.07	500.0	8	1.35	6.74	500.0	9	1.77	8.83	500.0
	10	1.32	6.59	500.0	11	1.67	8.34	500.0	12	1.25	6.23	500.0
	13	1.46	7.28	500.0	14	1.37	6.84	500.0	24	2.96	2.96	100.0
	25	2.32	2.32	100.0								
110	1	1.74	6.97	400.0	2	2.02	8.09	400.0	3	1.58	6.34	400.0
	4	1.97	7.87	400.0	5	1.39	6.94	500.0	6	1.88	9.38	500.0
	7	1.37	6.83	500.0	8	1.80	9.01	500.0	9	1.35	6.75	500.0
	10	1.75	8.73	500.0	11	1.29	6.44	500.0	12	1.64	8.20	500.0
	13	1.44	7.19	500.0	14	1.39	6.93	500.0	24	2.28	2.28	100.0
111	25	2.91	2.91	100.0								
	1	1.41	5.65	400.0	2	1.49	5.96	400.0	3	2.06	8.23	400.0
	4	1.98	7.91	400.0	5	2.45	12.25	500.0	6	1.95	9.73	500.0
	7	2.54	12.70	500.0	8	2.01	10.07	500.0	9	2.79	13.96	500.0
	10	2.25	11.23	500.0	11	3.21	16.03	500.0	12	2.65	13.24	500.0
112	13	2.24	11.18	500.0	14	1.80	8.98	500.0	24	2.97	2.97	100.0
	25	2.19	2.19	100.0								

Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
110	1	1.74	6.96	400.0	2	1.74	6.94	400.0	3	1.86	7.45	400.0
	4	1.99	7.96	400.0	5	1.92	9.59	500.0	6	2.43	12.17	500.0
	7	2.00	10.00	500.0	8	2.54	12.69	500.0	9	2.24	11.18	500.0
	10	2.79	13.96	500.0	11	2.64	13.21	500.0	12	3.21	16.04	500.0
	13	1.80	9.02	500.0	14	2.25	11.26	500.0	24	2.05	2.05	100.0
	25	2.89	2.89	100.0								
111	1	2.04	8.18	400.0	2	1.63	6.54	400.0	3	2.29	9.16	400.0
	4	1.74	6.94	400.0	5	2.55	12.77	500.0	6	1.78	8.88	500.0
	7	2.64	13.22	500.0	8	1.87	9.36	500.0	9	2.89	14.43	500.0
	10	2.13	10.63	500.0	11	3.28	16.40	500.0	12	2.56	12.82	500.0
	13	2.22	11.12	500.0	14	1.93	9.64	500.0	24	3.33	3.33	100.0
	25	1.98	1.98	100.0								
112	1	1.34	5.35	400.0	2	1.89	7.54	400.0	3	1.85	7.39	400.0
	4	2.43	9.73	400.0	5	1.79	8.96	500.0	6	2.58	12.90	500.0
	7	1.88	9.38	500.0	8	2.66	13.28	500.0	9	2.13	10.64	500.0
	10	2.90	14.48	500.0	11	2.56	12.81	500.0	12	3.28	16.42	500.0
	13	1.90	9.52	500.0	14	2.21	11.07	500.0	24	2.13	2.13	100.0
	25	3.51	3.51	100.0								
113	1	1.63	6.53	400.0	2	1.72	6.87	400.0	3	1.98	7.92	400.0
	4	1.91	7.64	400.0	5	2.44	12.19	500.0	6	1.93	9.66	500.0
	7	2.54	12.69	500.0	8	2.01	10.03	500.0	9	2.79	13.96	500.0
	10	2.24	11.21	500.0	11	3.21	16.04	500.0	12	2.64	13.22	500.0
	13	2.25	11.25	500.0	14	1.80	8.98	500.0	24	2.88	2.88	100.0
	25	2.10	2.10	100.0								
114	1	1.53	6.11	400.0	2	1.49	5.98	400.0	3	1.94	7.76	400.0
	4	2.06	8.25	400.0	5	1.93	9.64	500.0	6	2.45	12.23	500.0
	7	2.00	10.01	500.0	8	2.54	12.70	500.0	9	2.24	11.19	500.0
	10	2.79	13.96	500.0	11	2.64	13.22	500.0	12	3.21	16.03	500.0
	13	1.80	8.98	500.0	14	2.25	11.23	500.0	24	2.15	2.15	100.0
	25	2.98	2.98	100.0								
115	1	1.87	7.50	400.0	2	1.38	5.52	400.0	3	2.36	9.44	400.0
	4	1.81	7.24	400.0	5	2.56	12.82	500.0	6	1.79	8.94	500.0
	7	2.65	13.24	500.0	8	1.87	9.37	500.0	9	2.89	14.44	500.0
	10	2.13	10.63	500.0	11	3.28	16.40	500.0	12	2.56	12.80	500.0
	13	2.22	11.09	500.0	14	1.92	9.59	500.0	24	3.42	3.42	100.0
	25	2.07	2.07	100.0								
116	1	1.58	6.31	400.0	2	2.07	8.29	400.0	3	1.77	7.09	400.0
	4	2.38	9.50	400.0	5	1.78	8.90	500.0	6	2.57	12.83	500.0
	7	1.87	9.37	500.0	8	2.65	13.25	500.0	9	2.13	10.64	500.0
	10	2.89	14.46	500.0	11	2.56	12.82	500.0	12	3.28	16.41	500.0
	13	1.92	9.60	500.0	14	2.21	11.06	500.0	24	2.04	2.04	100.0
	25	3.43	3.43	100.0								
117	1	1.68	6.71	400.0	2	1.72	6.88	400.0	3	2.31	9.24	400.0
	4	2.21	8.83	400.0	5	3.24	16.19	500.0	6	2.66	13.31	500.0
	7	2.85	14.26	500.0	8	2.28	11.39	500.0	9	2.57	12.84	500.0
	10	2.01	10.03	500.0	11	2.33	11.63	500.0	12	1.78	8.92	500.0
	13	1.66	8.30	500.0	14	1.21	6.05	500.0	24	3.36	3.36	100.0
	25	2.56	2.56	100.0								
118	1	2.00	7.99	400.0	2	2.00	8.01	400.0	3	2.10	8.41	400.0
	4	2.24	8.94	400.0	5	2.64	13.21	500.0	6	3.22	16.11	500.0
	7	2.27	11.34	500.0	8	2.85	14.24	500.0	9	2.00	9.99	500.0
	10	2.57	12.83	500.0	11	1.78	8.88	500.0	12	2.33	11.64	500.0
	13	1.22	6.10	500.0	14	1.68	8.40	500.0	24	2.44	2.44	100.0
	25	3.26	3.26	100.0								
119	1	2.25	8.98	400.0	2	1.94	7.77	400.0	3	2.48	9.94	400.0
	4	2.02	8.07	400.0	5	3.29	16.47	500.0	6	2.56	12.82	500.0
	7	2.92	14.62	500.0	8	2.18	10.92	500.0	9	2.65	13.24	500.0
	10	1.90	9.52	500.0	11	2.40	12.02	500.0	12	1.69	8.44	500.0
	13	1.65	8.23	500.0	14	1.38	6.92	500.0	24	3.63	3.63	100.0
	25	2.42	2.42	100.0								
120	1	1.65	6.59	400.0	2	2.05	8.19	400.0	3	2.13	8.52	400.0
	4	2.62	10.48	400.0	5	2.58	12.91	500.0	6	3.31	16.57	500.0
	7	2.19	10.94	500.0	8	2.93	14.67	500.0	9	1.90	9.52	500.0
	10	2.66	13.28	500.0	11	1.68	8.42	500.0	12	2.41	12.05	500.0
	13	1.36	6.79	500.0	14	1.64	8.19	500.0	24	2.57	2.57	100.0
	25	3.80	3.80	100.0								
121	1	1.91	7.63	400.0	2	1.96	7.84	400.0	3	2.23	8.93	400.0
	4	2.14	8.55	400.0	5	3.23	16.13	500.0	6	2.65	13.24	500.0
	7	2.85	14.25	500.0	8	2.27	11.36	500.0	9	2.57	12.84	500.0
	10	2.00	10.01	500.0	11	2.33	11.64	500.0	12	1.78	8.89	500.0
	13	1.67	8.37	500.0	14	1.21	6.05	500.0	24	3.26	3.26	100.0
	25	2.47	2.47	100.0								

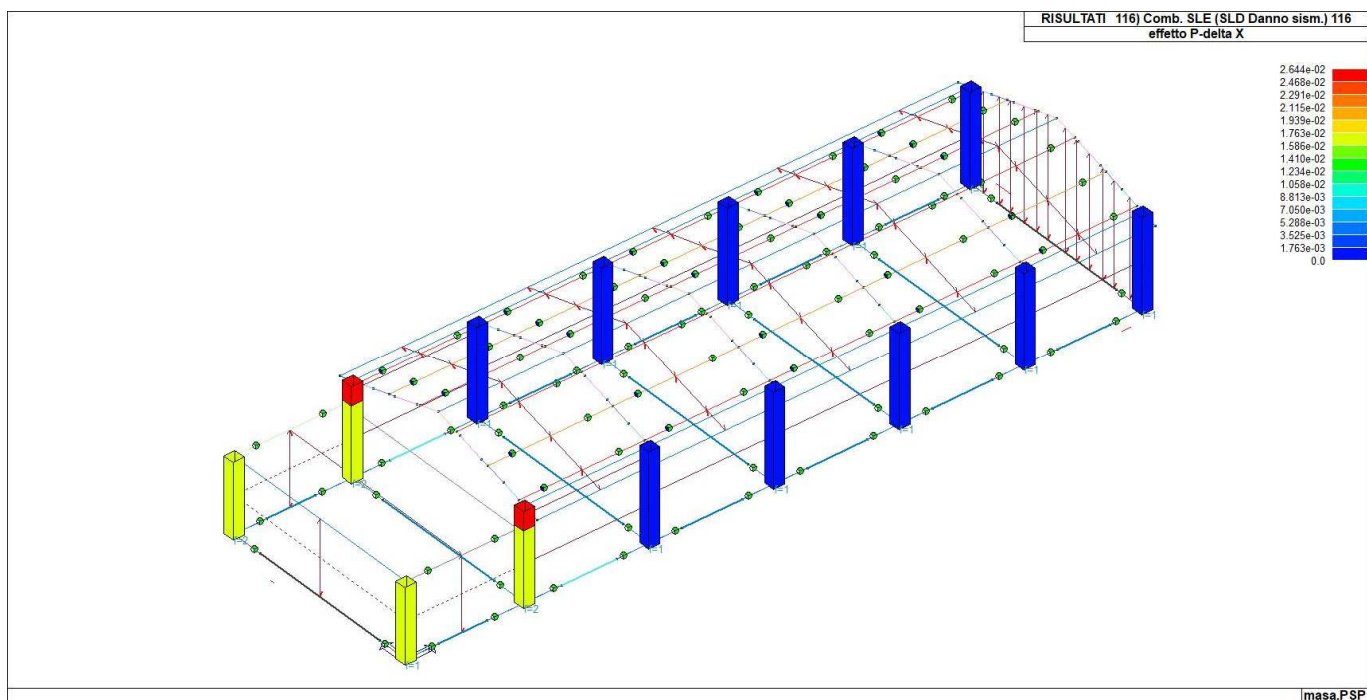
Cmb	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h	Pilas.	1000 etaT/h	etaT	inter. h
122	1	1.78	7.11	400.0	2	1.75	7.02	400.0	3	2.18	8.71	400.0
	4	2.31	9.23	400.0	5	2.65	13.26	500.0	6	3.23	16.17	500.0
	7	2.27	11.36	500.0	8	2.85	14.25	500.0	9	2.00	10.00	500.0
	10	2.57	12.83	500.0	11	1.78	8.89	500.0	12	2.33	11.63	500.0
	13	1.21	6.06	500.0	14	1.67	8.36	500.0	24	2.54	2.54	100.0
	25	3.35	3.35	100.0								
123	1	2.06	8.22	400.0	2	1.69	6.76	400.0	3	2.56	10.23	400.0
	4	2.09	8.37	400.0	5	3.30	16.52	500.0	6	2.58	12.88	500.0
	7	2.93	14.64	500.0	8	2.19	10.93	500.0	9	2.65	13.25	500.0
	10	1.90	9.52	500.0	11	2.41	12.03	500.0	12	1.68	8.42	500.0
	13	1.64	8.21	500.0	14	1.37	6.86	500.0	24	3.73	3.73	100.0
	25	2.51	2.51	100.0								
124	1	1.89	7.55	400.0	2	2.25	9.02	400.0	3	2.06	8.22	400.0
	4	2.56	10.23	400.0	5	2.57	12.85	500.0	6	3.30	16.51	500.0
	7	2.19	10.93	500.0	8	2.93	14.64	500.0	9	1.91	9.53	500.0
	10	2.65	13.26	500.0	11	1.69	8.44	500.0	12	2.41	12.03	500.0
	13	1.38	6.88	500.0	14	1.64	8.18	500.0	24	2.48	2.48	100.0
	25	3.72	3.72	100.0								
Cmb		1000 etaT/h										
		3.80										



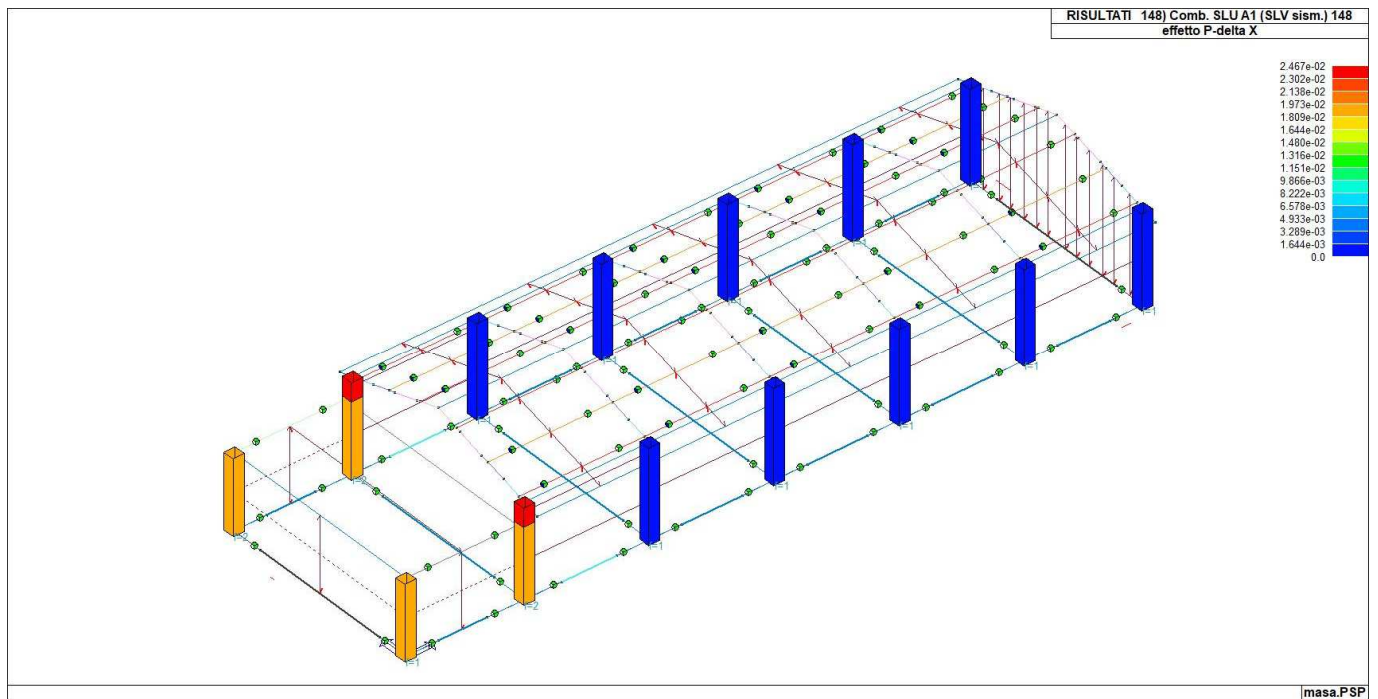
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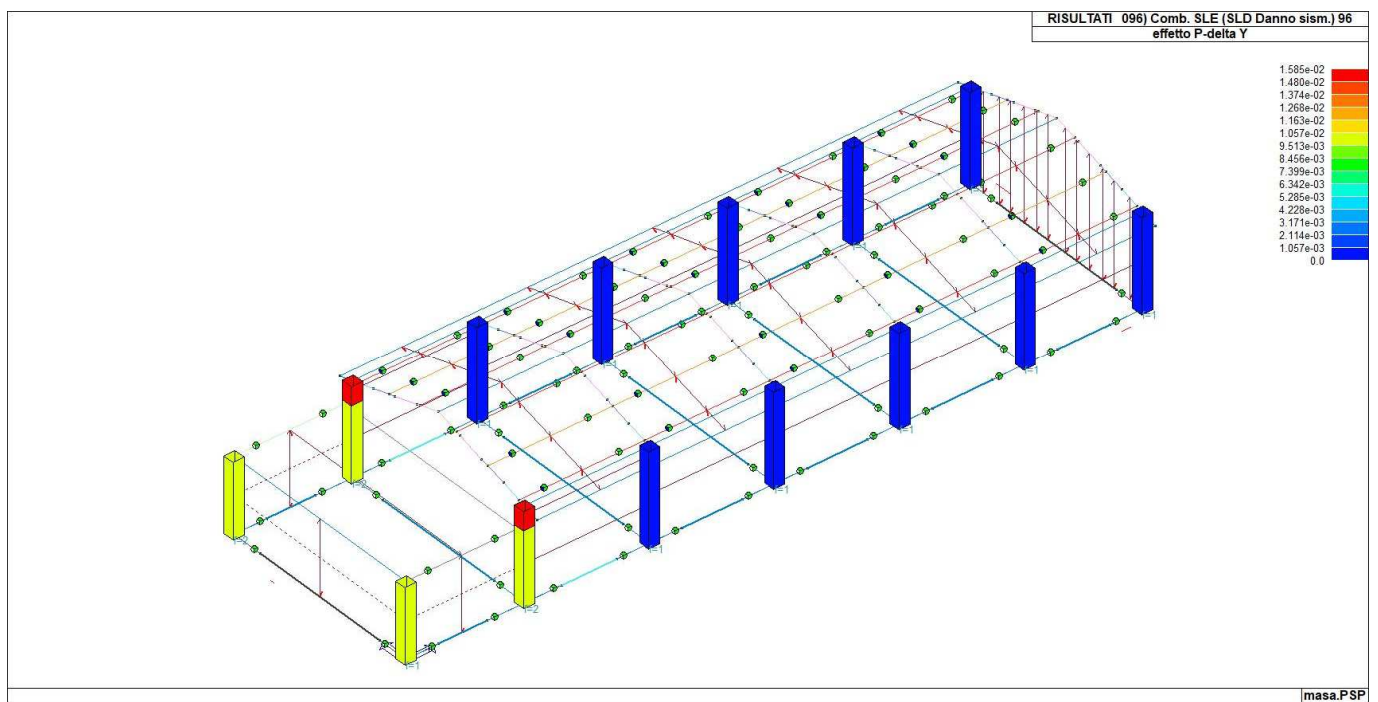
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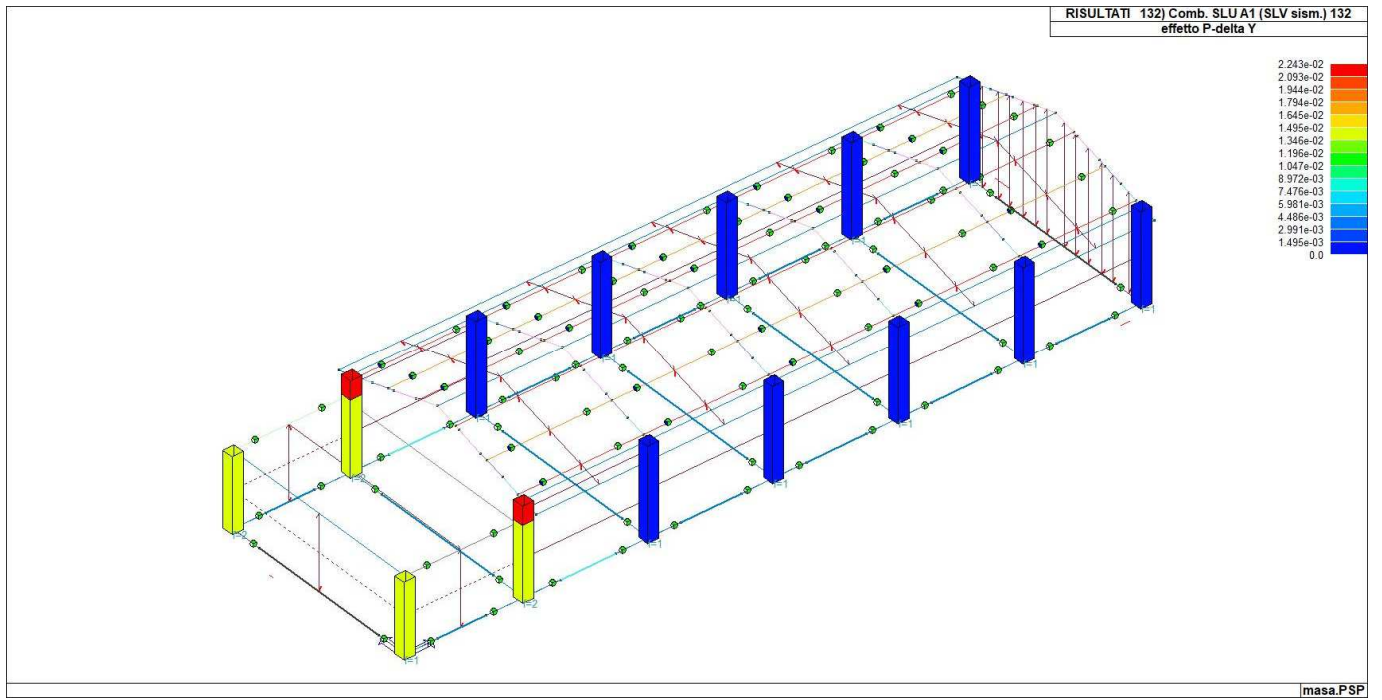
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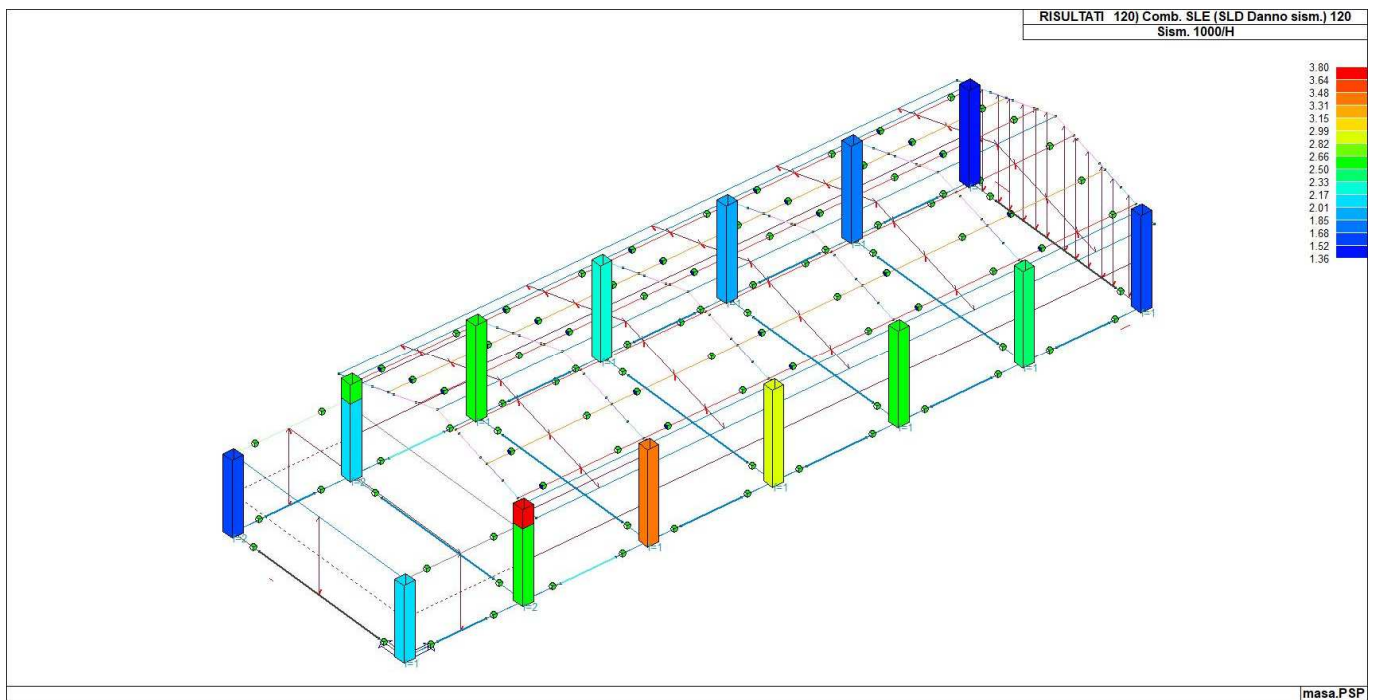
31_RIS_PDELTAX_148_Comb. SLU A1 (SLV sism.) 148



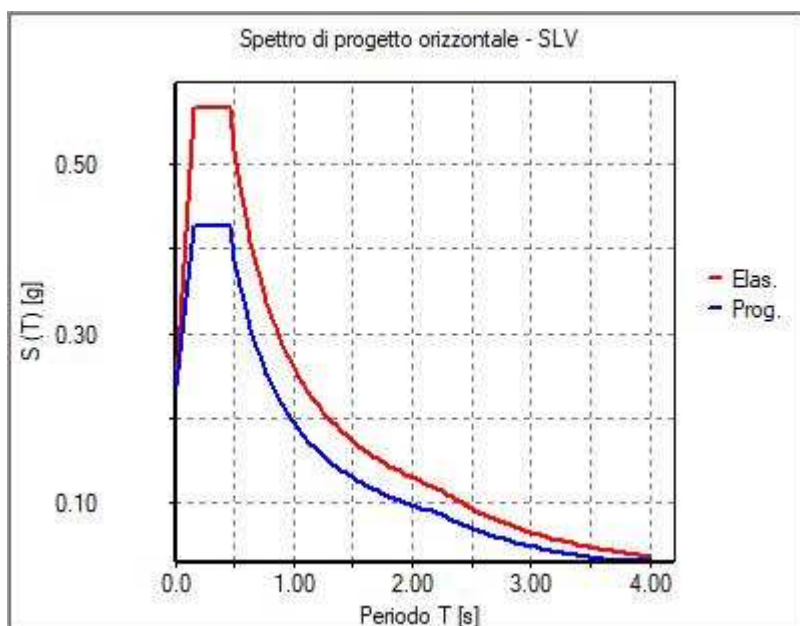
31_RIS_PDELTAY_096_Comb. SLE (SLD Danno sism.) 96



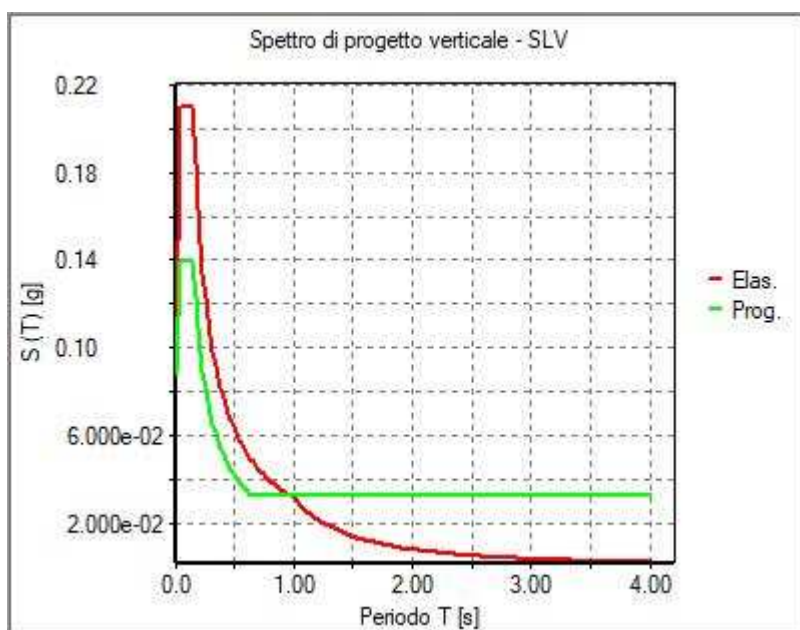
31_RIS_PDELTAY_132_Comb. SLU A1 (SLV sism.) 132



31_RIS_SLE_120_Comb. SLE (SLD Danno sism.) 120



31_RIS_SPETTRI_PROGETTO_SLV_O



31_RIS_SPETTRI_PROGETTO_SLV_V

VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

LEGENDA TABELLA VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

In tabella vengono riportati per ogni elemento il numero identificativo ed il codice di verifica con le sigle **Ok** o **NV**.

Nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite (**S.L.**) vengono riportati: il rapporto x/d , le verifiche per sollecitazioni proporzionali e la verifica per compressione media con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili (**T.A.**) vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale) con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

Nel caso in cui la struttura abbia comportamento dissipativo e sia prevista la progettazione con il criterio della gerarchia delle resistenze (**G.R.**) vengono riportate le verifiche di sovrarresistenza e del nodo.

Per gli elementi tipo pilastro sono riportati numero e diametro dei ferri di vertice, numero e diametro di ferri disposti lungo i lati L1 (paralleli alla base della sezione) e lungo i lati L2 (paralleli all'altezza della sezione).

Per gli elementi tipo trave sono riportati infine le quantità di armatura inferiore e superiore.

Schema della distribuzione delle armature longitudinali

	Orientamento elementi 2D non verticali
	Orientamento elementi 2D verticali

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 le sollecitazioni delle combinazioni con sisma 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 vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

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

Simbologia adottata nelle tabelle di verifica

Per le verifiche agli S.L. dei pilastri è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)
Pilas.	numero identificativo dell'elemento D2
Note	Codici identificativi delle sezione (s) e materiale (m) pilastro
Stato	Codici relativi all'esito delle verifiche effettuate appresso descritte
Quota	Quota sezione di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
r. snell.	Rapporto di snellezza λ su λ^* : valore superiore a 1 per elementi snelli nel caso in cui viene effettuata la verifica con il metodo diretto dello stato di equilibrio
Armat. long.	Numero e diametro (d) dei ferri di armatura longitudinale distinti in ferri di vertice + ferri di lato nelle posizioni nL1 e nL2, come da schemi in figura precedente
V N/M	Verifica a pressoflessione con rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
V N sis	Verifica a compressione solo calcestruzzo con rapporto N_{sd}/N_{rd} ed N_{rd} calcolato come al punto 7.4.4.2.1: valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} : 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 alla G.R. dei pilastri è presente una tabella con i simboli di seguito descritti:

Pilas.	numero identificativo dell'elemento D2 pilastro
sovr. Xi (Xf)	Verifica sovrarresistenza come da formula 7.4.4 in direzione X, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato

sovr. Y_i (Y_f)	Verifica sovrarresistenza come da formula 7.4.4 in direzione Y, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
M 2-2 i (f)	Valore del momento resistente 2-2 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
M 3-3 i (f)	Valore del momento resistente 3-3 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M2-2 (M3-3)	Valore del taglio generato dai momenti resistenti 2-2 (3-3)

Per le verifiche dei dettagli costruttivi per la duttilità è presente una tabella con i simboli di seguito descritti: (Non presente nel caso di comportamento strutturale non dissipativo)

Pilas	Numero identificativo D2 pilastro
n_i	Sforzo assiale adimensionalizzato di progetto relativo alla combinazione sismica SLV
$\alpha\omega$	Prodotto tra il coefficiente di efficacia del confinamento e il rapporto meccanico dell'armatura trasversale di confinamento all'interno del nodo
V.7.4.29 2-2 (3-3)	Rapporto tra la domanda di staffe minima nel nodo e il rapporto meccanico dell'armatura trasversale di confinamento inserito all'interno del nodo in direzione 2 (3)
V. 7.4.29 Stato	Codici relativi all'esito della verifica 7.4.29
d_{mu_fi} 2-2 (3-3)	Domanda in duttilità di curvatura in direzione 2 (3)
c_{mu_fi} 2-2 (3-3)	Capacità in duttilità di curvatura in direzione 2 (3)
V. dutt. 2-2 (3-3)	Rapporto tra la domanda in duttilità di curvatura e la capacità in duttilità di curvatura in direzione 2 (3)

Per le verifiche nodi trave-pilastro di elementi nuovi è presente una tabella con i simboli di seguito descritti:

Nodo	Numero identificativo del nodo trave-pilastro
Stato	Esito delle verifiche
Pilastro	Numero identificativo D2 pilastro
Diam st	Diametro staffe nodo
Passo	Passo staffe nodo
n. br. 2 (3)	Numero braccia staffe per il taglio in direzione 2 (3)
B_j2 (3)	Larghezza effettiva del nodo per il taglio in direzione 2 (3)
$H_{jc}2$ (3)	Distanza tra le giaciture più esterne delle armature del pilastro per il taglio in direzione 2 (3)
V. 7.4.8	Rapporto tra il taglio V_{jbd} e il taglio resistente come da formula 7.4.8
V. Ash	Rapporto tra il passo staffe calcolato secondo il capitolo 7.4.4.3.1. e il passo staffe effettivamente inserita nel nodo. Nel caso di valore indica passo staffe utilizzato deriva dalle formule presenti nel paragrafo 7.4.4.3.1. Nel caso di valore minore di 1 il passo staffe utilizzato deriva del pilastro superiore o inferiore al nodo
7.4.10	Check passo staffe valutato in funzione della formula 7.4.10: <ul style="list-style-type: none"> • SI il passo staffe è calcolato utilizzando la formula 7.4.10; • NO il passo staffe è calcolato utilizzando le formule 7.4.11 e/o 7.4.12; • NR calcolo passo staffe non richiesto;
Rif. comb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il nodo

Per le verifiche nodi trave-pilastro di elementi esistenti è presente una tabella con i simboli di seguito descritti:

Pilastro I	Numero identificativo D2 del pilastro inferiore.
Pilastro S	Numero identificativo D2 del pilastro superiore.
Nodo	Numero identificativo del nodo trave-pilastro.
SL cod	Stato limite di riferimento e relativo esito delle verifiche.
ver. (+)	Fattore di sicurezza nei riguardi della verifica di resistenza a compressione (verificato se < 1.00).
V +	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a compressione.
V + af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella

	verifica di resistenza a compressione.
N +	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a compressione.
ver. (-)	Fattore di sicurezza nei riguardi della verifica di resistenza a trazione (verificato se < 1.00).
V -	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a trazione.
V - af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a trazione.
N -	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a trazione.
AreaV2	Area resistente del nodo in direzione 2 ($A_{j2}=b_{j2}*h_{jc2}$).
AreaV3	Area resistente del nodo in direzione 3 ($A_{j3}=b_{j3}*h_{jc3}$).
Rif. comb.	Combinazione (direzione) di riferimento nella verifica di trazione.

Per le verifiche agli S.L. delle travi è presente una tabella con i simboli di seguito descritti:

M_ T	Z	P	Numero della travata (T), quota media (Z), n° pilastri iniziale (P) e finale (P) (nodo in assenza di pilastri)
Trave			numero identificativo dell'elemento D2
Note			Codici identificativi sezione (s) e materiale (m) trave; sono inoltre presenti le sigle relative all'esito delle verifiche effettuate appresso descritte
%Af			Percentuale di area di armatura rispetto a quella di calcestruzzo
Af inf.			Area di armatura longitudinale posta all'intradosso
Af sup			Area di armatura longitudinale posta all'estradosso
Af long.			Area complessiva armatura longitudinale
x/d			rapporto tra posizione dell'asse neutro e altezza utile
V N/M			Verifica a pressoflessione rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
Staffe			Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls			Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} : valore minore o uguale a 1 per verifica positiva
Rif. cmb.			Riferimento combinazioni da cui si generano le verifiche più gravose per la trave

Per le verifiche alla G.R. delle travi è presente una tabella con i simboli di seguito descritti:

Trave		numero identificativo dell'elemento D2 trave
M negativo i		Valore del momento resistente negativo all' estremità iniziale i (finale f) della trave
M positivo i (f)		Valore del momento resistente positivo all' estremità iniziale i (finale f) della trave
Luce per V		Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M-i M+f		Taglio generato dai momenti resistenti negativo i e positivo f
V M+i M-f		Taglio generato dai momenti resistenti positivo i e negativo f
V _{Ed, min}		Valore di taglio minimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
V _{Ed, max}		Valore di taglio massimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
V _{r1}		Valore di taglio come da formula 7.4.1 per armatura diagonale (solo per CD "A")
As		Area singolo ordine armature diagonali come da formula 7.4.2 (solo per CD "A")

Per le verifiche a taglio ciclico di travi e pilastri esistenti è presente una tabella con i simboli di seguito descritti:

Trave/Pilastro	Numero identificativo dell'elemento D2 trave/pilastro
V. SLV	Codice relativo all'esito delle verifiche
Nodo	Numero identificativo del nodo di verifica
Ver. VC	Fattore di sicurezza nei confronti della verifica a taglio ciclico (verificato se < 1.00)
Direz.	Direzione di verifica
N fr	Valore di sforzo normale calcolato con fattore di comportamento fragile
V fr	Valore di taglio calcolato con fattore di comportamento fragile
M fr	Valore di momento calcolato con fattore di comportamento fragile
N dutt	Valore di sforzo normale calcolato con fattore di comportamento duttile
LV	Lunghezza di taglio
Mud,pl	Parte plastica della domanda di duttilità
V cic	Resistenza a taglio in condizioni cicliche (C8.7.2.8)
Cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

Per le verifiche alle T.A. di pilastri e travi è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)
M_T Z P P	Numero della travata, quota media pilastrata iniziale e finale (nodo in assenza di pilastrata)
Pilas. Trave	o numero identificativo dell'elemento D2
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m); nella terza riga viene riportato il valore delle snellezze in direzione 2-2 e 3-3
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Quota	Ascissa del punto di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Armat. long.	Numero e diametro dei ferri di armatura longitudinale: ferri di vertice + ferri di lato (come da fig. precedente)
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup	Area di armatura longitudinale posta all'estradosso della trave
Sc max	Massima tensione di compressione del calcestruzzo
Sc med	Massima tensione media di compressione del calcestruzzo
Sf max	Tensione massima nell'acciaio
staffe	Vengono riportati i dati del tratto di staffatura in cui cade la sezione di verifica; in particolare: numero dei bracci, diametro, passo, lunghezza tratto
Tau max	Tensione massima tangenziale nel cls
Rif. comb	Combinazioni in cui si generano i seguenti valori di tensione: Sc max, Sc med, Sf max, Tau max
AfV	area dell'armatura atta ad assorbire le azioni di taglio
AfT	area dell'armatura atta ad assorbire le azioni di torsione
Scorr. P	Scorrimento dei piegati
Af long.	Area del ferro longitudinale aggiuntivo per assorbire la torsione

M_P = 1 X=5.0 Y=5.0												
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
			cm						L=cm			
2	s=1,m=7	ok,ok	0.0	3.93	0.21	12d30 4+4 d30	0.61	0.06	4+4d8/15 L=45	0.14	0.19	91,130,91,36
			200.0	3.93	0.21	12d30 4+4 d30	0.33	0.05	4+4d8/25 L=310	0.14	0.32	83,130,91,36
	[b=1.0;1.0]		400.0	3.93	0.21	12d30 4+4 d30	0.06	0.05	4+4d8/15 L=45	0.14	0.19	68,130,91,36
M_P = 2 X=641.0 Y=5.0												
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
4	s=1,m=7	ok,ok	0.0	3.93	0.27	12d30 4+4 d30	0.76	0.09	4+4d8/15 L=45	0.49	0.78	83,152,62,62
			200.0	3.93	0.27	12d30 4+4 d30	0.46	0.08	4+4d8/15 L=310	0.49	0.78	84,152,62,62
	[b=1.0;1.0]		400.0	3.93	0.27	12d30 4+4 d30	0.19	0.07	4+4d8/15 L=45	0.50	0.78	60,152,62,62
25	s=1,m=7	ok,ok	400.0	3.93	0.04	12d30 4+4 d30	0.16	0.03	4+4d8/15 L=45	0.18	0.28	40,136,40,88
			450.0	3.93	0.04	12d30 4+4 d30	0.10	0.02	4+4d8/25 L=10	0.18	0.46	56,136,40,88
	[b=1.0;1.0]		500.0	3.93	0.04	12d30 4+4 d30	0.05	0.02	4+4d8/15 L=45	0.18	0.28	49,136,40,88
M_P = 3 X=1313.0 Y=5.0												
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
6	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.72	0.07	4+4d8/15 L=45	0.15	0.25	80,140,84,88
			250.0	3.93	0.30	12d30 4+4 d30	0.37	0.05	4+4d8/25 L=410	0.15	0.41	80,140,84,88
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.15	0.25	48,140,84,88
M_P = 4 X=1985.0 Y=5.0												
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
8	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.61	0.07	4+4d8/15 L=45	0.13	0.21	80,140,84,88
			250.0	3.93	0.30	12d30 4+4 d30	0.32	0.05	4+4d8/25 L=410	0.13	0.35	80,140,84,88
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.13	0.21	48,140,84,88
M_P = 5 X=2657.0 Y=5.0												
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
10	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.61	0.07	4+4d8/15 L=45	0.13	0.21	64,144,68,72
			250.0	3.93	0.30	12d30 4+4 d30	0.32	0.05	4+4d8/25 L=410	0.13	0.35	64,144,68,72
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.13	0.21	48,144,68,72
M_P = 6 X=3329.0 Y=5.0												
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
12	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.70	0.07	4+4d8/15 L=45	0.14	0.24	64,144,68,72
			250.0	3.93	0.30	12d30 4+4 d30	0.36	0.05	4+4d8/25 L=410	0.15	0.40	64,144,68,72
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.15	0.24	48,144,68,72
M_P = 7 X=3960.0 Y=5.0												

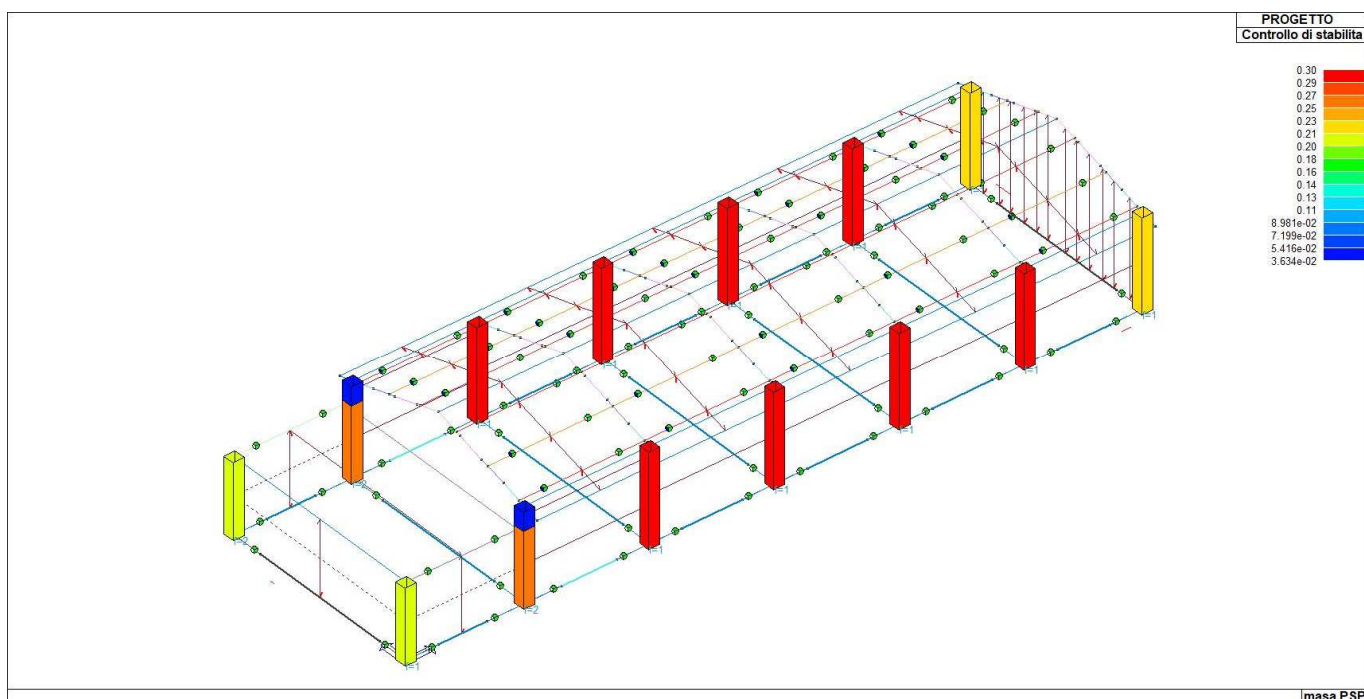
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
14	s=1,m=7	ok,ok	0.0	3.93	0.23	12d30 4+4 d30	0.55	0.04	4+4d8/15 L=45	0.12	0.19	68,128,36,76
			250.0	3.93	0.23	12d30 4+4 d30	0.28	0.03	4+4d8/25 L=410	0.12	0.32	68,128,36,76
	[b=1.0;1.0]		500.0	3.93	0.23	12d30 4+4 d30	0.04	0.02	4+4d8/15 L=45	0.12	0.19	52,128,36,76
					M P= 8	X=5.0	Y=1145.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
1	s=1,m=7	ok,ok	0.0	3.93	0.21	12d30 4+4 d30	0.75	0.06	4+4d8/15 L=45	0.18	0.22	81,138,81,80
			200.0	3.93	0.21	12d30 4+4 d30	0.39	0.05	4+4d8/25 L=310	0.18	0.36	81,138,81,80
	[b=1.0;1.0]		400.0	3.93	0.21	12d30 4+4 d30	0.06	0.05	4+4d8/15 L=45	0.18	0.22	62,138,81,80
					M P= 9	X=641.0	Y=1145.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
3	s=1,m=7	ok,ok	0.0	3.93	0.27	12d30 4+4 d30	0.74	0.09	4+4d8/15 L=45	0.46	0.79	89,138,72,68
			200.0	3.93	0.27	12d30 4+4 d30	0.45	0.08	4+4d8/15 L=310	0.47	0.79	90,138,72,68
	[b=1.0;1.0]		400.0	3.93	0.27	12d30 4+4 d30	0.23	0.07	4+4d8/15 L=45	0.47	0.79	42,138,72,68
24	s=1,m=7	ok,ok	400.0	3.93	0.04	12d30 4+4 d30	0.16	0.03	4+4d8/15 L=45	0.18	0.27	54,138,54,78
			450.0	3.93	0.04	12d30 4+4 d30	0.10	0.02	4+4d8/25 L=10	0.18	0.45	54,138,54,78
	[b=1.0;1.0]		500.0	3.93	0.04	12d30 4+4 d30	0.04	0.02	4+4d8/15 L=45	0.18	0.27	52,138,54,78
					M P= 10	X=1313.0	Y=1145.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
5	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.72	0.07	4+4d8/15 L=45	0.15	0.25	78,134,82,78
			250.0	3.93	0.30	12d30 4+4 d30	0.37	0.05	4+4d8/25 L=410	0.15	0.41	78,134,82,78
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.15	0.25	30,134,82,78
					M P= 11	X=1985.0	Y=1145.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
7	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.61	0.07	4+4d8/15 L=45	0.13	0.21	86,134,82,78
			250.0	3.93	0.30	12d30 4+4 d30	0.31	0.05	4+4d8/25 L=410	0.13	0.35	86,134,82,78
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.13	0.21	30,134,82,78
					M P= 12	X=2657.0	Y=1145.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
9	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.61	0.07	4+4d8/15 L=45	0.13	0.21	70,126,66,62
			250.0	3.93	0.30	12d30 4+4 d30	0.31	0.05	4+4d8/25 L=410	0.13	0.35	70,126,66,62
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.13	0.21	30,126,66,62
					M P= 13	X=3329.0	Y=1145.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
11	s=1,m=7	ok,ok	0.0	3.93	0.30	12d30 4+4 d30	0.70	0.07	4+4d8/15 L=45	0.14	0.24	70,126,74,62
			250.0	3.93	0.30	12d30 4+4 d30	0.36	0.05	4+4d8/25 L=410	0.14	0.40	70,126,74,62
	[b=1.0;1.0]		500.0	3.93	0.30	12d30 4+4 d30	0.04	0.04	4+4d8/15 L=45	0.15	0.24	30,126,74,62
					M P= 14	X=3960.0	Y=1145.0					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
13	s=1,m=7	ok,ok	0.0	3.93	0.23	12d30 4+4 d30	0.54	0.04	4+4d8/15 L=45	0.12	0.19	74,130,50,66
			250.0	3.93	0.23	12d30 4+4 d30	0.28	0.03	4+4d8/25 L=410	0.12	0.32	74,130,50,66
	[b=1.0;1.0]		500.0	3.93	0.23	12d30 4+4 d30	0.04	0.02	4+4d8/15 L=45	0.12	0.19	34,130,50,66
Pilas.				%Af	r. snell.		V N/M	V N sis		V V/T cls	V V/T acc	
				3.93	0.30		0.76	0.09		0.50	0.79	

Nodo	Conf.	Stato	Pilas.	Diam st	Passo	n. br. 2	Bj2	Hjc2	n. br. 3	Bj3	Hjc3	V. 7.4.8	V. Ash	7.4.10	Rif. cmb
				mm	cm		cm	cm		cm	cm				
2	NO	ok	1	8	15.0	4	60.0	50.4	4	60.0	50.4	0.0	0.0	NR	0,0
4	NO	ok	2	8	15.0	4	60.0	50.4	4	60.0	50.4	0.0	0.0	NR	0,0
Nodo					Passo							V. 7.4.8	V. Ash		
					15.00										
												0.0	0.0		

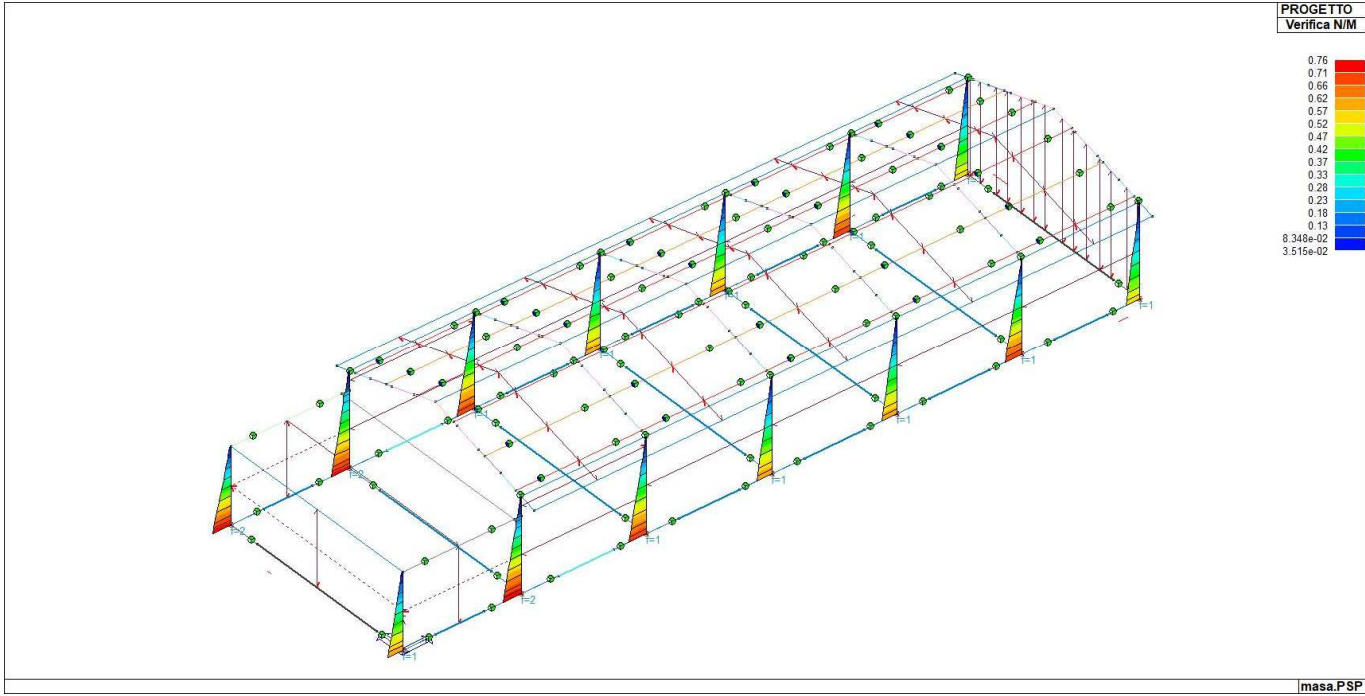
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	M T= 42	Z=0.0	N=119	N=152	Staffe	Rif. cmb
		cm					x/d	V N/M	V V/T cls	V V/T acc	L=cm	
154	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.39	0.29	0.44	2d10/10 L=50	46,61,61
	s=2,m=1	130.5	0.24	6.0	6.0	8.0	0.12	0.46	0.27	0.79	2d10/20 L=161	46,61,61
		261.0	0.24	6.0	6.0	8.0	0.12	0.39	0.29	0.44	2d10/10 L=50	46,68,68
							M T= 43	Z=0.0	N=122	N=123		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
155	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.40	0.29	0.44	2d10/10 L=50	32,29,29
	s=2,m=1	130.5	0.24	6.0	6.0	8.0	0.12	0.46	0.28	0.80	2d10/20 L=161	32,29,29
		261.0	0.24	6.0	6.0	8.0	0.12	0.40	0.29	0.44	2d10/10 L=50	32,36,36
							M T= 44	Z=0.0	N=143	N=149		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
156	ok,ok	0.0	0.20	8.0	8.0	0.0	0.11	0.05	0.20	0.04	4d10/10 L=50	52,68,61
	s=11,m=1	395.0	0.20	8.0	8.0	0.0	0.11	0.14	0.16	0.04	4d10/20 L=690	53,68,68

		790.0	0.20	8.0	8.0	0.0	0.11	0.05	0.20	0.04	4d10/10 L=50	52,61,76	
							M_T= 45	Z=0.0	N=141	N=147			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
157	ok,ok	0.0	0.24	6.0	6.0	0.0	0.12	0.08	0.23	0.03	2d10/10 L=50	142,68,68	
	s=2,m=1	395.0	0.24	6.0	6.0	0.0	0.12	0.12	0.21	0.02	2d10/20 L=690	136,68,61	
		790.0	0.24	6.0	6.0	0.0	0.12	0.08	0.23	0.03	2d10/10 L=50	142,61,61	
							M_T= 47	Z=0.0	N=133	N=134			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
159	ok,ok	0.0	0.24	6.0	6.0	4.0	0.12	0.08	0.24	0.29	2d10/10 L=50	152,76,68	
	s=2,m=1	395.0	0.24	6.0	6.0	4.0	0.12	0.14	0.22	0.50	2d10/20 L=690	140,76,68	
		790.0	0.24	6.0	6.0	4.0	0.12	0.08	0.24	0.29	2d10/10 L=50	152,69,61	
							M_T= 48	Z=0.0	N=129	N=130			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
160	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.08	0.28	0.42	2d10/10 L=50	156,36,36	
	s=2,m=1	395.0	0.24	6.0	6.0	8.0	0.12	0.13	0.28	0.80	2d10/20 L=690	156,36,36	
		790.0	0.24	6.0	6.0	8.0	0.12	0.08	0.28	0.42	2d10/10 L=50	156,29,29	
							M_T= 49	Z=0.0	N=124	N=125			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
161	ok,ok	0.0	0.24	6.0	6.0	4.0	0.12	5.61e-03	0.23	0.29	2d10/10 L=50	54,76,68	
	s=2,m=1	370.0	0.24	6.0	6.0	4.0	0.12	0.12	0.22	0.50	2d10/20 L=640	4,69,61	
		740.0	0.24	6.0	6.0	4.0	0.12	5.61e-03	0.23	0.29	2d10/10 L=50	54,69,61	
							M_T= 50	Z=0.0	N=126	N=127			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
163	ok,ok	0.0	0.24	6.0	6.0	16.1	0.12	0.82	0.92	0.92	2d12/10 L=50	32,84,84	
	s=13,m=1	148.5	0.24	6.0	6.0	16.1	0.12	0.85	0.91	0.91	2d12/10 L=197	32,84,84	
		297.0	0.24	6.0	6.0	16.1	0.12	0.82	0.92	0.92	2d12/10 L=50	32,84,84	
							M_T= 51	Z=0.0	N=128	N=131			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
165	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.60	0.44	0.65	2d10/10 L=50	32,68,68	
	s=2,m=1	161.0	0.24	6.0	6.0	8.0	0.12	0.61	0.43	0.93	2d10/15 L=222	32,68,68	
		322.0	0.24	6.0	6.0	8.0	0.12	0.60	0.44	0.64	2d10/10 L=50	32,61,61	
							M_T= 52	Z=0.0	N=115	N=135			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
166	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.41	0.46	0.67	2d10/10 L=50	46,76,76	
	s=2,m=1	161.0	0.24	6.0	6.0	8.0	0.12	0.41	0.45	0.97	2d10/15 L=222	46,68,76	
		322.0	0.24	6.0	6.0	8.0	0.12	0.41	0.46	0.68	2d10/10 L=50	46,61,61	
							M_T= 53	Z=0.0	N=132	N=137			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
167	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.42	0.46	0.68	2d10/10 L=50	32,68,68	
	s=2,m=1	161.0	0.24	6.0	6.0	8.0	0.12	0.43	0.45	0.97	2d10/15 L=222	48,68,68	
		322.0	0.24	6.0	6.0	8.0	0.12	0.42	0.46	0.68	2d10/10 L=50	32,61,61	
							M_T= 54	Z=0.0	N=139	N=140			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
169	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.30	0.44	0.65	2d10/10 L=50	52,84,84	
	s=2,m=1	161.0	0.24	6.0	6.0	8.0	0.12	0.33	0.44	0.95	2d10/15 L=222	52,77,77	
		322.0	0.24	6.0	6.0	8.0	0.12	0.30	0.45	0.66	2d10/10 L=50	52,77,77	
							M_T= 57	Z=0.0	N=142	N=150			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
172	ok,ok	0.0	0.24	6.0	6.0	12.1	0.12	0.24	0.63	0.92	2d10/10 L=50	52,61,61	
	s=2,m=1	140.5	0.24	6.0	6.0	12.1	0.12	0.28	0.63	0.90	2d10/10 L=181	52,61,61	
		281.0	0.24	6.0	6.0	12.1	0.12	0.24	0.63	0.92	2d10/10 L=50	52,61,61	
							M_T= 58	Z=0.0	N=136	N=138			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
173	ok,ok	0.0	0.24	6.0	6.0	0.0	0.12	0.08	0.25	0.03	2d10/10 L=50	144,68,68	
	s=2,m=1	395.0	0.24	6.0	6.0	0.0	0.12	0.13	0.23	0.02	2d10/20 L=690	156,68,68	
		790.0	0.24	6.0	6.0	0.0	0.12	0.08	0.25	0.03	2d10/10 L=50	144,61,61	
							M_T= 59	Z=0.0	N=118	N=151			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
174	ok,ok	0.0	0.24	6.0	6.0	16.1	0.12	0.79	0.91	0.91	2d12/10 L=50	46,77,77	
	s=13,m=1	148.5	0.24	6.0	6.0	16.1	0.12	0.80	0.91	0.91	2d12/10 L=197	46,77,77	
		297.0	0.24	6.0	6.0	16.1	0.12	0.79	0.92	0.93	2d12/10 L=50	46,77,77	
							M_T= 60	Z=0.0	N=116	N=117			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
175	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.58	0.43	0.64	2d10/10 L=50	46,68,68	
	s=2,m=1	161.0	0.24	6.0	6.0	8.0	0.12	0.59	0.43	0.93	2d10/15 L=222	46,61,61	
		322.0	0.24	6.0	6.0	8.0	0.12	0.58	0.44	0.65	2d10/10 L=50	46,61,69	
							M_T= 61	Z=0.0	N=145	N=146			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
176	ok,ok	0.0	0.24	6.0	6.0	8.0	0.12	0.28	0.45	0.66	2d10/10 L=50	46,84,84	
	s=2,m=1	161.0	0.24	6.0	6.0	8.0	0.12	0.28	0.44	0.95	2d10/15 L=222	54,84,84	
		322.0	0.24	6.0	6.0	8.0	0.12	0.28	0.44	0.65	2d10/10 L=50	46,77,85	
							M_T= 62	Z=0.0	N=120	N=121			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	

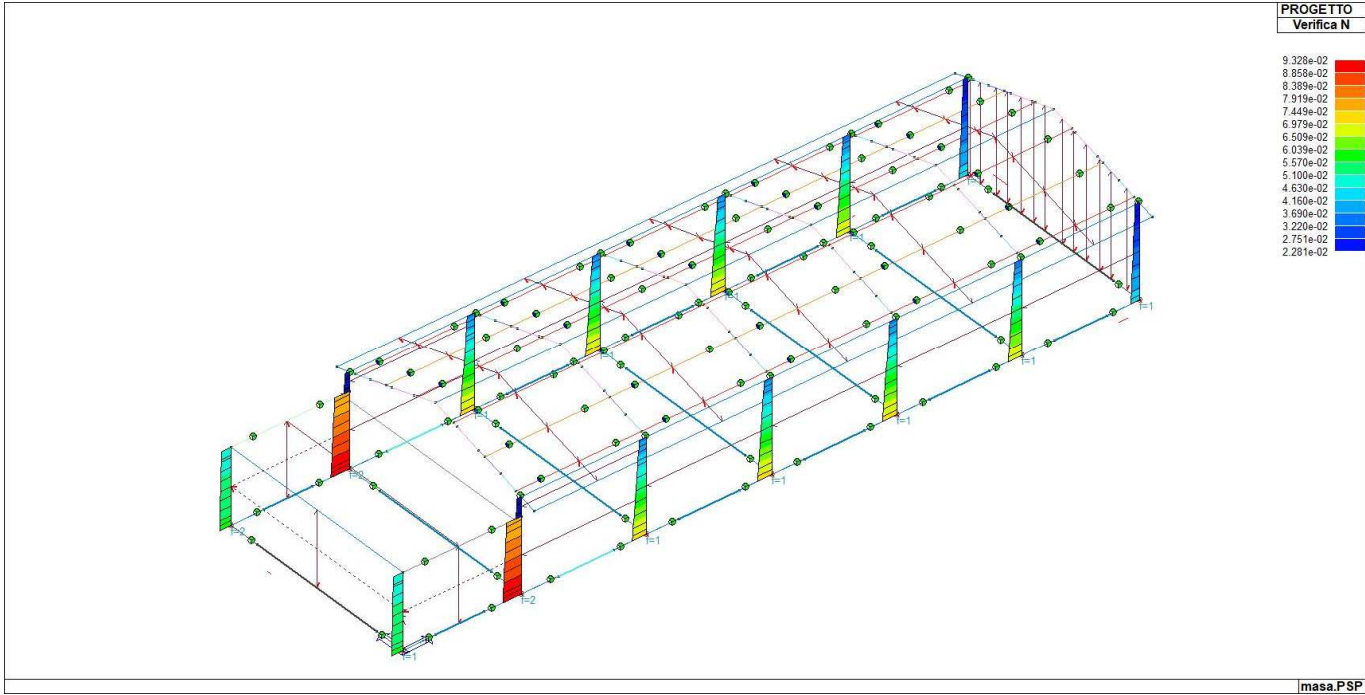
177	ok,ok	0.0	0.20	8.0	8.0	8.0	0.11	0.04	0.29	0.46	4d10/10 L=50	80,92,68	
	s=11,m=1	395.0	0.20	8.0	8.0	8.0	0.11	0.30	0.22	0.73	4d10/20 L=690	60,85,61	
		790.0	0.20	8.0	8.0	8.0	0.11	0.04	0.26	0.43	4d10/10 L=50	80,85,61	
							M_T= 63	Z=0.0	N=144	N=148			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
178	ok,ok	0.0	0.24	6.0	6.0	12.1	0.12	0.23	0.64	0.93	2d10/10 L=50	34,76,76	
	s=2,m=1	140.5	0.24	6.0	6.0	12.1	0.12	0.25	0.63	0.90	2d10/10 L=181	34,76,76	
		281.0	0.24	6.0	6.0	12.1	0.12	0.23	0.63	0.91	2d10/10 L=50	34,76,76	
							M_T= 18	Z=400.0	N=4	N=32			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
34	ok,ok	0.0	0.34	14.1	14.1	12.1	0.06	5.36e-03	0.58	0.75	2d8/5 L=86	34,4,68	
	s=12,m=1	298.0	0.43	18.1	14.1	12.1	0.07	0.90	0.30	0.60	2d8/8 L=393	3,68,68	
		596.0	0.34	14.1	14.1	12.1	0.06	5.36e-03	0.58	0.75	2d8/5 L=86	34,4,68	
							M_T= 19	Z=400.0	N=2	N=31			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
35	ok,ok	0.0	0.34	14.1	14.1	12.1	0.06	5.72e-03	0.57	0.74	2d8/5 L=86	52,4,62	
	s=4,m=1	298.0	0.43	18.1	14.1	12.1	0.07	0.90	0.29	0.58	2d8/8 L=393	3,62,62	
		596.0	0.34	14.1	14.1	12.1	0.06	5.72e-03	0.57	0.74	2d8/5 L=86	52,4,62	
Trave			%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc			
			0.43	18.09	14.07	16.08	0.12	0.90	0.92	0.97			



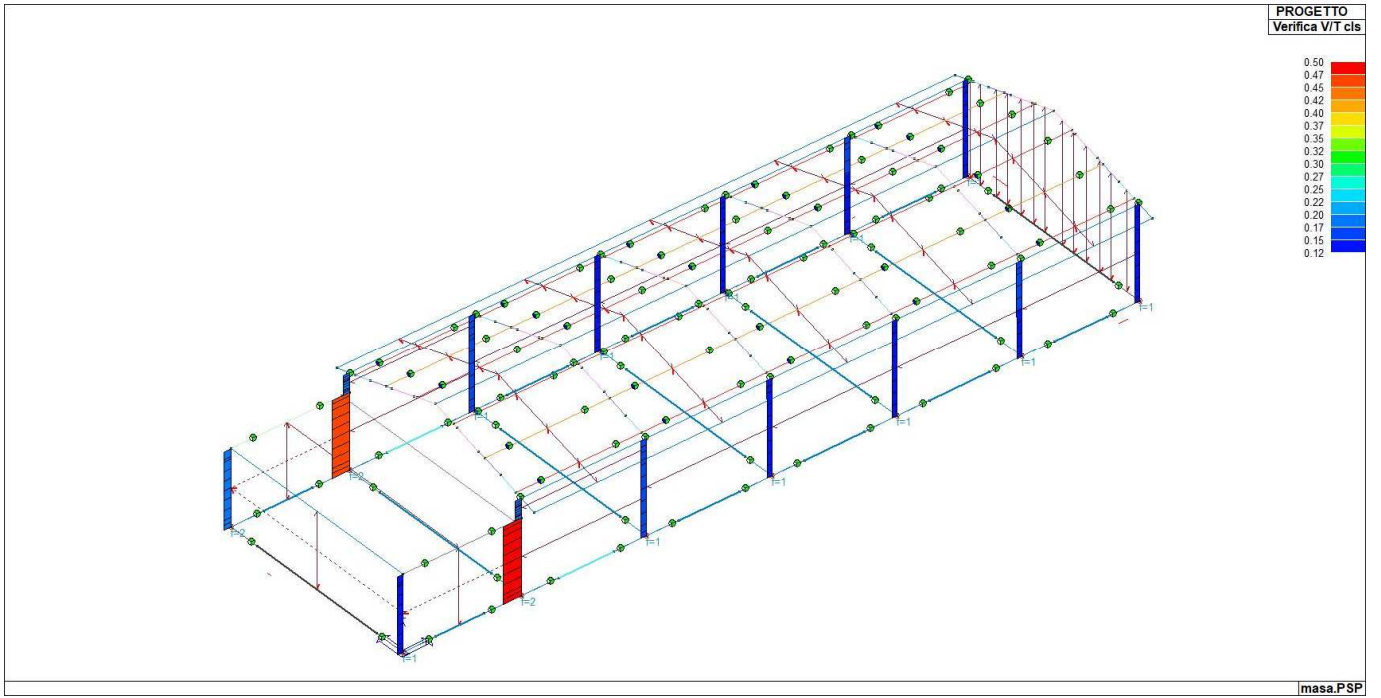
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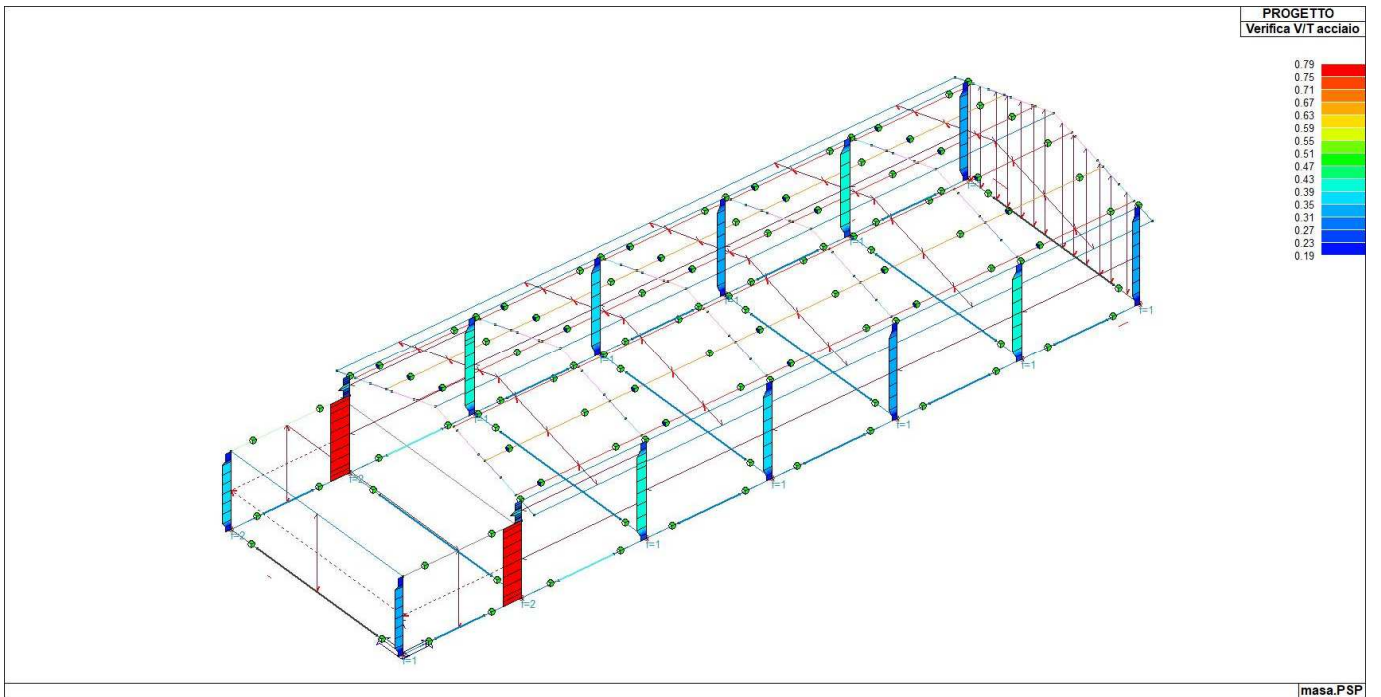
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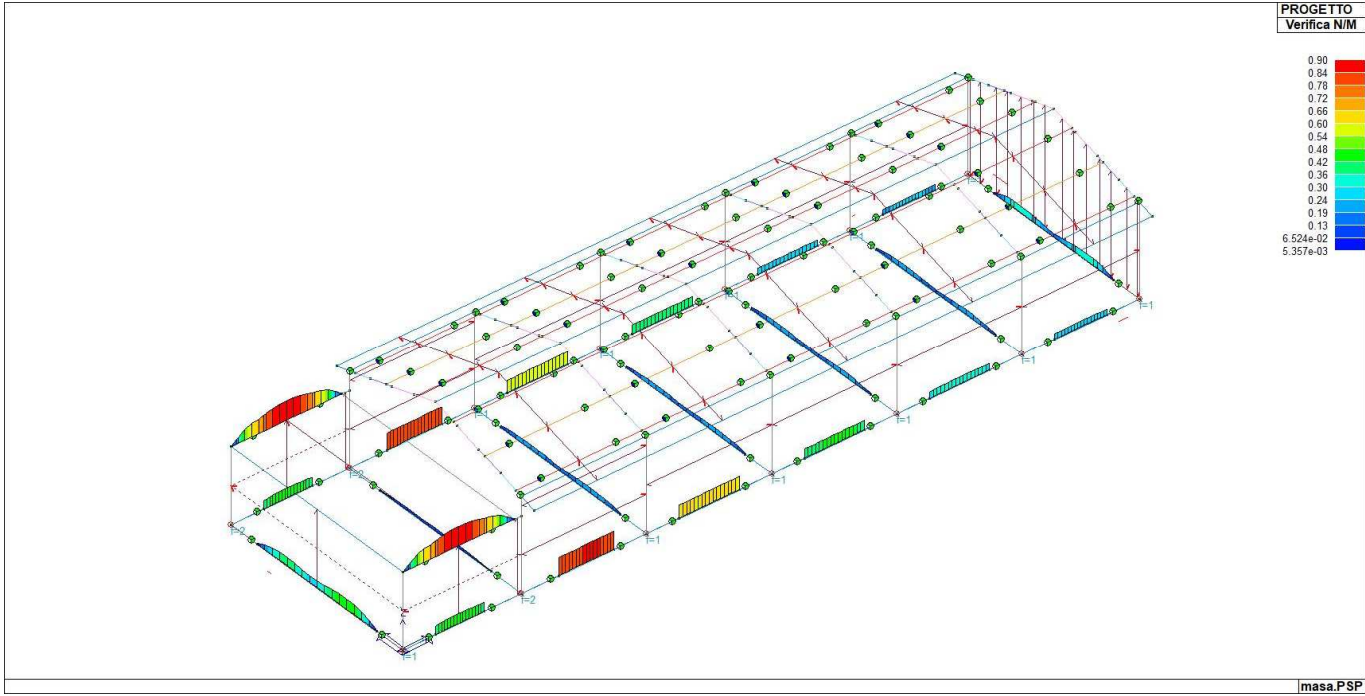
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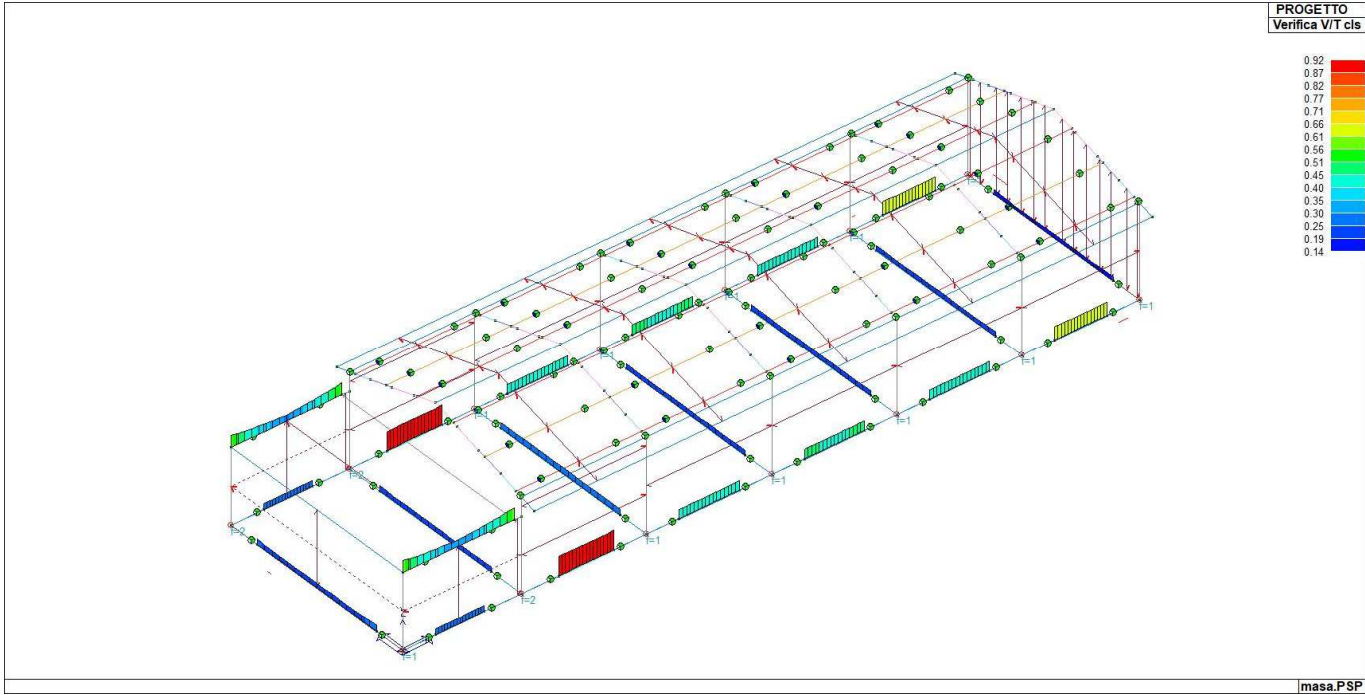
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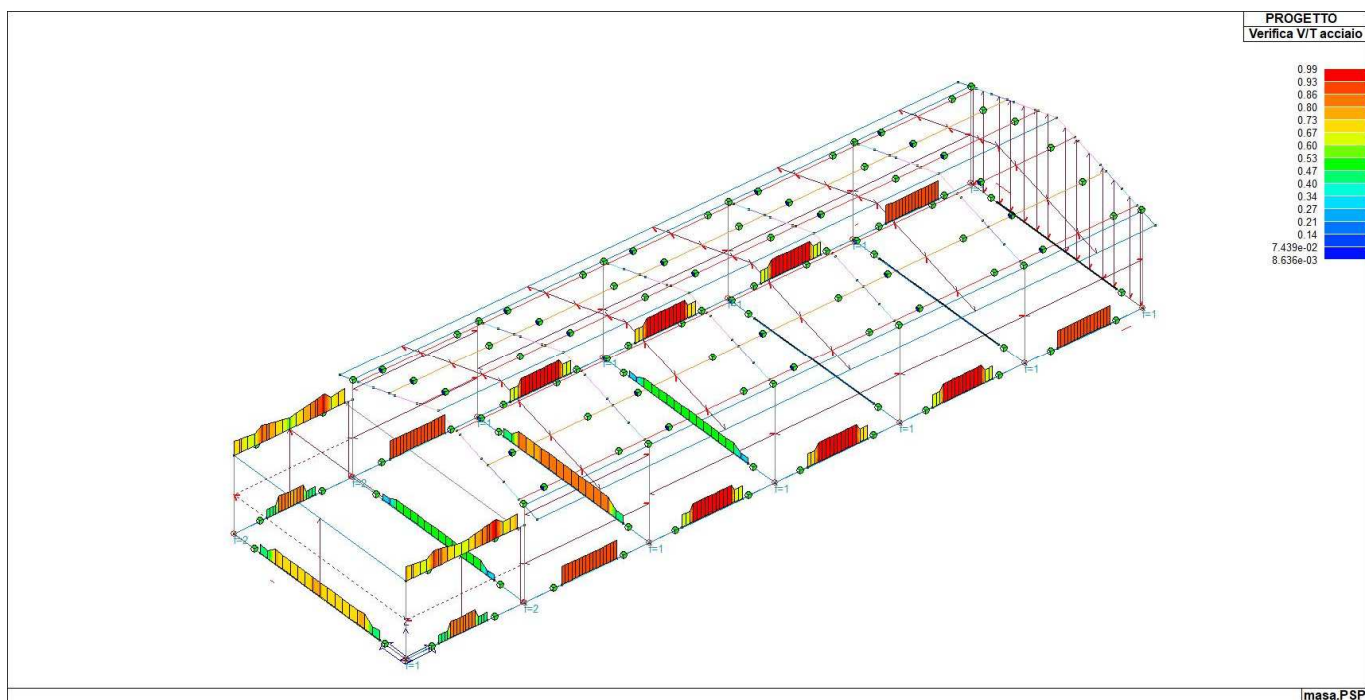
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71_PRO_CA_TRV_VER_NM



71_PRO_CA_TRV_VER_VRCD



71_PRO_CA_TRV_VER_VRSD

STATI LIMITE D' ESERCIZIO

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	rRfyk	rPfck	per sezioni significative
	wR	wF	wP	per sezioni significative
	dR	dF	dP	massimi in campata

setti e gusci	rRfck wR	rRfyk wF	rPfck wP	massimi nei nodi dell'elemento massimi nei nodi dell'elemento
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Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti flettenti 3-3).

Pilas.	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	Pos.	rRfck	rRfyk	rPfck	Rif. cmb
	cm					cm				
1	0.0	0.08	0.07	0.09	18,18,28	200.0	0.05	0.04	0.06	18,18,28
	400.0	0.03	0.03	0.03	18,18,28					
2	0.0	0.08	0.07	0.09	18,18,28	200.0	0.04	0.04	0.05	18,18,28
	400.0	0.03	0.03	0.03	18,18,28					
3	0.0	0.06	0.05	0.07	18,18,28	200.0	0.09	0.08	0.11	18,18,28
	400.0	0.15	0.13	0.17	18,18,28					
4	0.0	0.05	0.05	0.06	18,18,28	200.0	0.09	0.08	0.11	18,18,28
	400.0	0.15	0.13	0.17	18,18,28					
5	0.0	0.07	0.06	0.07	19,19,27	250.0	0.04	0.04	0.04	19,19,27
	500.0	0.02	0.02	0.02	21,21,28					
6	0.0	0.07	0.06	0.07	19,19,27	250.0	0.04	0.04	0.04	19,19,27
	500.0	0.02	0.02	0.02	19,19,27					
7	0.0	0.07	0.06	0.07	19,19,27	250.0	0.04	0.04	0.04	19,19,27
	500.0	0.02	0.02	0.02	19,19,27					
8	0.0	0.07	0.06	0.07	19,19,27	250.0	0.04	0.04	0.04	19,19,27
	500.0	0.02	0.02	0.02	21,21,28					
9	0.0	0.07	0.06	0.07	19,19,27	250.0	0.04	0.04	0.04	19,19,27
	500.0	0.02	0.02	0.02	21,21,28					
10	0.0	0.07	0.06	0.07	19,19,27	250.0	0.04	0.04	0.04	19,19,27
	500.0	0.02	0.02	0.02	19,19,27					
11	0.0	0.07	0.06	0.07	21,21,28	250.0	0.04	0.04	0.04	21,21,28
	500.0	0.02	0.02	0.02	19,19,27					
12	0.0	0.07	0.06	0.07	21,21,28	250.0	0.04	0.04	0.04	21,21,28
	500.0	0.02	0.02	0.02	21,21,28					
13	0.0	0.05	0.04	0.05	21,21,28	250.0	0.03	0.03	0.03	21,21,28
	500.0	8.78e-03	9.11e-03	9.39e-03	21,21,28					
14	0.0	0.05	0.04	0.05	21,21,28	250.0	0.03	0.03	0.03	21,21,28
	500.0	8.78e-03	9.11e-03	9.39e-03	19,19,27					
24	0.0	0.07	0.07	0.08	19,19,27	50.0	0.04	0.04	0.04	19,19,27
	100.0	9.18e-03	9.52e-03	9.76e-03	19,19,27					
25	0.0	0.07	0.07	0.08	19,19,27	50.0	0.04	0.04	0.04	19,19,27
	100.0	9.18e-03	9.52e-03	9.76e-03	21,21,28					
Pilas.		rRfck	rRfyk	rPfck			rRfck	rRfyk	rPfck	
		0.15	0.13	0.17						

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	cm					mm	mm	mm		mm	mm	mm	
34	0.0	2.79e-03	2.87e-03	3.28e-03	21,21,28	0.0	0.0	0.0	0,0,0	-7.52	-7.05	-6.77	18,23,28
	298.0	0.38	0.75	0.44	18,17,28	0.20	0.19	0.18	17,23,28				
	596.0	2.79e-03	2.87e-03	3.28e-03	21,21,28	0.0	0.0	0.0	0,0,0				
35	0.0	2.82e-03	2.90e-03	3.32e-03	21,21,28	0.0	0.0	0.0	0,0,0	-7.52	-7.05	-6.77	18,23,28
	298.0	0.38	0.75	0.44	18,17,28	0.20	0.19	0.18	17,23,28				
	596.0	2.82e-03	2.90e-03	3.32e-03	21,21,28	0.0	0.0	0.0	0,0,0				
154	0.0	0.0	0.04	0.0	0,17,0	0.0	0.0	0.0	0,0,0	3.09	2.83	2.77	21,26,28
	130.5	0.03	0.10	0.03	15,17,27	0.0	0.0	0.0	0,0,0				
	261.0	0.0	0.04	0.0	0,17,0	0.0	0.0	0.0	0,0,0				
155	0.0	0.0	0.04	0.0	0,17,0	0.0	0.0	0.0	0,0,0	-2.12	-1.87	-1.81	21,26,28
	130.5	0.02	0.10	0.03	15,17,27	0.0	0.0	0.0	0,0,0				
	261.0	0.0	0.04	0.0	0,17,0	0.0	0.0	0.0	0,0,0				
156	0.0	0.0	0.03	0.0	0,21,0	0.0	0.0	0.0	0,0,0	-0.44	-0.44	-0.44	15,22,27
	395.0	0.02	0.07	0.02	17,17,28	0.0	0.0	0.0	0,0,0				
	790.0	0.0	0.03	0.0	0,21,0	0.0	0.0	0.0	0,0,0				
157	0.0	0.0	0.09	0.0	0,19,0	0.0	0.0	0.0	0,0,0	0.69	0.50	0.45	21,26,28
	395.0	0.0	0.16	0.0	0,21,0	0.0	0.0	0.0	0,0,0				
	790.0	0.0	0.09	0.0	0,19,0	0.0	0.0	0.0	0,0,0				
159	0.0	0.0	0.10	0.0	0,21,0	0.0	0.0	0.0	0,0,0	0.73	0.53	0.48	21,26,28
	395.0	0.0	0.16	0.0	0,21,0	0.0	0.0	0.0	0,0,0				
	790.0	0.0	0.10	0.0	0,21,0	0.0	0.0	0.0	0,0,0				
160	0.0	0.0	0.09	0.0	0,19,0	0.0	0.0	0.0	0,0,0	0.76	0.55	0.50	19,24,27
	395.0	0.0	0.16	0.0	0,19,0	0.0	0.0	0.0	0,0,0				
	790.0	0.0	0.09	0.0	0,19,0	0.0	0.0	0.0	0,0,0				
161	0.0	4.76e-03	4.90e-03	5.11e-03	19,19,27	0.0	0.0	0.0	0,0,0	0.94	0.77	0.74	18,23,28

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	370.0	0.04	0.06	0.04	18,18,28	0.0	0.0	0.0	0,0,0				
	740.0	4.76e-03	4.90e-03	5.11e-03	19,19,27	0.0	0.0	0.0	0,0,0				
163	0.0	0.0	0.04	0.0	0,18,0	0.0	0.0	0.0	0,0,0	-1.69	-1.29	-1.19	19,24,27
	148.5	8.55e-04	0.06	0.0	19,18,0	0.0	0.0	0.0	0,0,0				
	297.0	0.0	0.04	0.0	0,18,0	0.0	0.0	0.0	0,0,0				
165	0.0	0.0	0.03	0.0	0,18,0	0.0	0.0	0.0	0,0,0	-0.48	-0.43	-0.41	21,26,28
	161.0	9.38e-03	0.05	8.31e-03	19,21,27	0.0	0.0	0.0	0,0,0				
	322.0	0.0	0.03	0.0	0,18,0	0.0	0.0	0.0	0,0,0				
166	0.0	0.0	0.01	0.0	0,18,0	0.0	0.0	0.0	0,0,0	-0.45	-0.40	-0.39	21,26,28
	161.0	0.01	0.04	0.01	19,21,27	0.0	0.0	0.0	0,0,0				
	322.0	0.0	0.01	0.0	0,18,0	0.0	0.0	0.0	0,0,0				
167	0.0	0.0	0.01	0.0	0,18,0	0.0	0.0	0.0	0,0,0	-0.46	-0.41	-0.40	21,26,28
	161.0	0.01	0.04	0.01	19,21,27	0.0	0.0	0.0	0,0,0				
	322.0	0.0	0.01	0.0	0,18,0	0.0	0.0	0.0	0,0,0				
169	0.0	8.60e-04	8.86e-04	1.15e-03	15,15,27	0.0	0.0	0.0	0,0,0	-0.29	-0.26	-0.26	18,26,28
	161.0	0.01	0.03	0.01	19,21,27	0.0	0.0	0.0	0,0,0				
	322.0	8.60e-04	8.86e-04	1.15e-03	15,15,27	0.0	0.0	0.0	0,0,0				
172	0.0	2.08e-03	2.14e-03	2.78e-03	15,15,27	0.0	0.0	0.0	0,0,0	-1.32	-0.97	-0.89	19,24,27
	140.5	6.05e-03	5.12e-03	6.06e-03	19,19,27	0.0	0.0	0.0	0,0,0				
	281.0	2.08e-03	2.14e-03	2.78e-03	15,15,27	0.0	0.0	0.0	0,0,0				
173	0.0	0.0	0.10	0.0	0,21,0	0.0	0.0	0.0	0,0,0	0.73	0.53	0.48	21,26,28
	395.0	0.0	0.16	0.0	0,21,0	0.0	0.0	0.0	0,0,0				
	790.0	0.0	0.10	0.0	0,21,0	0.0	0.0	0.0	0,0,0				
174	0.0	0.0	0.04	0.0	0,18,0	0.0	0.0	0.0	0,0,0	-1.69	-1.29	-1.19	19,24,27
	148.5	1.48e-03	0.06	0.0	19,18,0	0.0	0.0	0.0	0,0,0				
	297.0	0.0	0.04	0.0	0,18,0	0.0	0.0	0.0	0,0,0				
175	0.0	0.0	0.02	0.0	0,18,0	0.0	0.0	0.0	0,0,0	-0.48	-0.42	-0.41	21,26,28
	161.0	9.52e-03	0.05	8.50e-03	19,21,27	0.0	0.0	0.0	0,0,0				
	322.0	0.0	0.02	0.0	0,18,0	0.0	0.0	0.0	0,0,0				
176	0.0	8.95e-04	9.22e-04	1.19e-03	15,15,27	0.0	0.0	0.0	0,0,0	-0.29	-0.26	-0.25	18,26,28
	161.0	0.01	0.03	0.01	19,21,27	0.0	0.0	0.0	0,0,0				
	322.0	8.95e-04	9.22e-04	1.19e-03	15,15,27	0.0	0.0	0.0	0,0,0				
177	0.0	9.28e-04	9.55e-04	1.02e-03	19,19,27	0.0	0.0	0.0	0,0,0	2.43	2.17	2.08	18,23,28
	395.0	0.08	0.24	0.09	18,17,28	0.0	0.0	0.0	0,0,0				
	790.0	9.28e-04	9.55e-04	1.02e-03	19,19,27	0.0	0.0	0.0	0,0,0				
178	0.0	2.10e-03	2.16e-03	2.80e-03	15,15,27	0.0	0.0	0.0	0,0,0	-1.32	-0.98	-0.89	19,24,27
	140.5	6.06e-03	5.13e-03	6.08e-03	19,19,27	0.0	0.0	0.0	0,0,0				
	281.0	2.10e-03	2.16e-03	2.80e-03	15,15,27	0.0	0.0	0.0	0,0,0				
Trave		rRfck	rRfyk	rPfck		wR	wF	wP		dR	dF	dP	
										-7.52	-7.05	-6.77	
		0.38	0.75	0.44		0.20	0.19	0.18		3.09	2.83	2.77	

3. RELAZIONE DI CALCOLO TRAVE BOOMERANG

CARATTERISTICHE MATERIALI UTILIZZATI

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 fctm Coefficiente ksb	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft Tensione fy Resistenza fd Resistenza fd (>40) Tensione ammissibile Tensione ammissibile(>40)	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

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 (tipicamente 0.4)
		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)

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		
1	Calcestruzzo Classe C25/30			3.145e+05	0.20	1.310e+05	2.50e-03	1.00e-05	
	Resistenza Rc	300.0							
	Resistenza fctm		25.6						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
7	Calcestruzzo Classe C40/50			3.550e+05	0.20	1.479e+05	2.50e-03	1.00e-05	
	Resistenza Rc	500.0							
	Resistenza fctm		36.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
11	Acciaio Fe360 - S235-acciaio Fe360-S235			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	3600.0							
	Resistenza fd	2350.0							
	Resistenza fd (>40)	2100.0							

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Tensione ammissibile	1600.0							
	Tensione ammissibile (>40)	1400.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
157	Materiale inf. rigido no peso E = 1.000e+09			1.000e+09	0.0	5.000e+08	0.0	1.20e-05	
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
158	materiale E = 100.00			100.0	0.0	50.0	2.50e-03	0.0	
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	NO	NO	NO	NO	NO	NO
	NO	NO				
Af inf: da q*L*L /	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Armatura						
Minima tesa	0.31	0.0	0.0	0.0	0.31	0.31
	0.31	0.31				
Minima compressa	0.31	0.0	0.0	0.0	0.31	0.31
	0.31	0.31				
Massima tesa	0.78	0.78	0.78	0.78	2.00	2.00
	2.00	2.00				
Da sezione	SI	SI	SI	SI	SI	SI
	SI	SI				
Usa armatura teorica	NO	NO	NO	NO	NO	NO
	NO	NO				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00	4500.00				
Tensione fy staffe [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				
Fattore di ridistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander	Mander	Mander
	Mander	Mander				
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03
	5.000e-03	5.000e-03				
Fattore lambda	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02
	4.000e-02	4.000e-02				
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03
	4.500e-03	4.500e-03				
epsilon c2	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
epsilon cy	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
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
	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				
Staffe						
Diametro staffe	0.0	10.00	10.00	12.00	12.00	12.00
	10.00	10.00				
Passo minimo [cm]	4.00	10.00	25.00	10.00	10.00	10.00

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
	10.00	10.00				
Passo massimo [cm]	30.00	20.00	25.00	20.00	10.00	10.00
	10.00	10.00				
Passo raffittito [cm]	15.00	10.00	25.00	10.00	10.00	10.00
	10.00	10.00				
Lunghezza zona raffittita [cm]	50.00	50.00	50.00	50.00	0.0	0.0
	0.0	0.0				
Ctg(Teta) Max	2.50	2.50	2.50	2.50	2.50	2.50
	2.50	2.50				
Percentuale sagomati	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Adotta scorrimento medio	NO	NO	NO	NO	NO	NO
	NO	NO				
Torsione non essenziale inclusa	SI	SI	SI	SI	SI	SI
	SI	SI				

Pilastr c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Disponi come da sezione	Privilegia lati	Privilegia lati	Privilegia lati	Disponi come da sezione	Disponi come da sezione
	Disponi come da sezione	Disponi come da sezione				
Progetta a filo	NO	NO	NO	NO	NO	NO
	NO	NO				
Effetti del 2 ordine	SI	SI	SI	SI	SI	SI
	SI	SI				
Beta per 2-2	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Beta per 3-3	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Armatura						
Massima tesa	4.00	4.00	4.00	4.00	4.00	4.00
	4.00	4.00				
Minima tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
	4500.00	4500.00				
Tensione fy staffe [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 costante	NSI	SI	SI	SI	SI	SI
	SI	SI				
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander	Mander	Mander
	Mander	Mander				
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03
	5.000e-03	5.000e-03				
Fattore lambda	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02
	4.000e-02	4.000e-02				
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03
	4.500e-03	4.500e-03				
epsilon c2	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
epsilon cy	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Tensioni ammissibili						

Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
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
	15.00	15.00				
Staffe						
Diametro staffe	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Passo minimo [cm]	5.00	5.00	5.00	5.00	5.00	5.00
	5.00	5.00				
Passo massimo [cm]	25.00	25.00	25.00	25.00	25.00	25.00
	25.00	25.00				
Passo raffittito [cm]	15.00	15.00	15.00	15.00	15.00	15.00
	15.00	15.00				
Lunghezza zona raffittita [cm]	45.00	45.00	45.00	45.00	45.00	45.00
	45.00	45.00				
Ctg(Teta) Max	2.50	2.50	2.50	2.50	2.50	2.50
	2.50	2.50				
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Massimizza gerarchia	NO	SI	SI	SI	NO	NO
	NO	NO				

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	NO	NO	NO	NO	NO	NO
	NO	NO				
Af inf: da traliccio	SI	SI	SI	SI	SI	SI
	SI	SI				
Consenti armatura a taglio	NO	NO	NO	NO	NO	NO
	NO	NO				
Incrementa armatura longitudinale per taglio	SI	SI	SI	SI	SI	SI
	SI	SI				
Af inf: da q*L*L /	20.00	20.00	20.00	20.00	20.00	20.00
	20.00	20.00				
Incremento fascia piena [cm]	5.00	5.00	5.00	5.00	5.00	5.00
	5.00	5.00				
Armatura						
Minima tesa	0.15	0.15	0.15	0.15	0.15	0.15
	0.15	0.15				
Massima tesa	3.00	3.00	3.00	3.00	3.00	3.00
	3.00	3.00				
Minima compressa	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
	7.000e-02	7.000e-02				
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				
Fattore di redistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00	85.00	85.00	85.00	85.00	85.00
	85.00	85.00				
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
	15.00	15.00				

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00				
Verifica freccia						
Infinita	250.00	250.00	250.00	250.00	250.00	250.00
	250.00	250.00				
Istantanea	500.00	500.00	500.00	500.00	500.00	500.00
	500.00	500.00				
Fattore viscosità	3.00	3.00	3.00	3.00	3.00	3.00
	3.00	3.00				
Usa J non fessurato	NO	NO	NO	NO	NO	NO
	NO	NO				
Elementi non strutturali						
Tamponatura antiespulsione	NO	NO	NO	NO	NO	NO
	NO	NO				
Tamponatura con armatura	NO	NO	NO	NO	NO	NO
	NO	NO				
Fattore di struttura/comportamento	2.00	2.00	2.00	2.00	2.00	2.00
	2.00	2.00				
Coefficiente gamma m	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Periodo Ta	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				
Altezza pannello	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0				

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

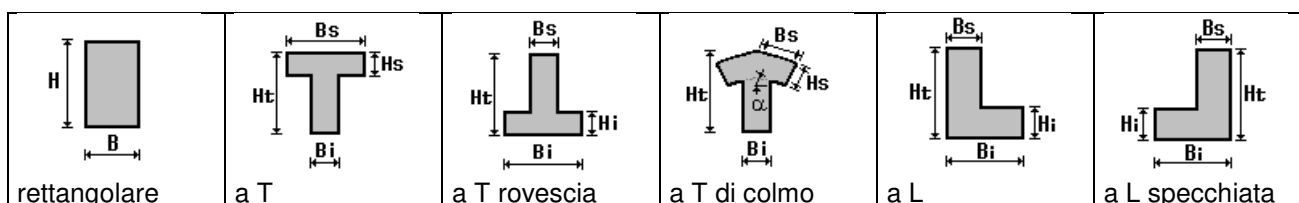
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

4. sezione di tipo generico
5. profilati semplici
6. 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.



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 profilati.

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

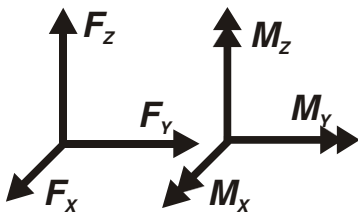
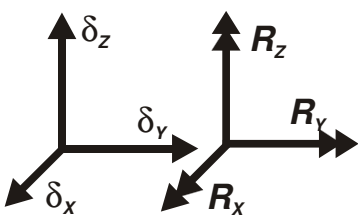
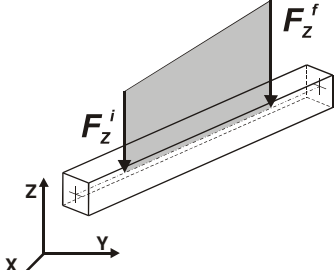
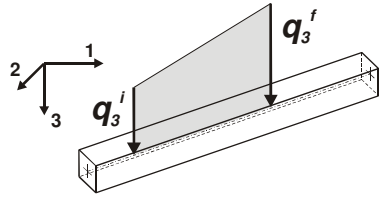
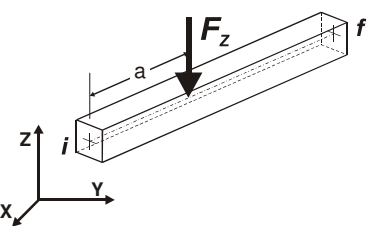
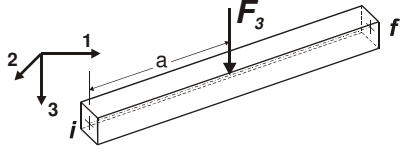
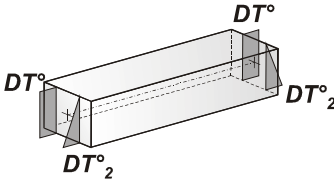
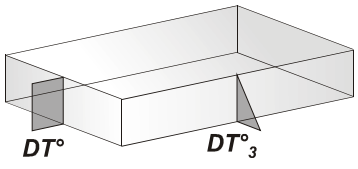
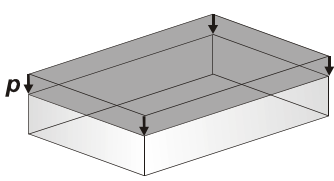
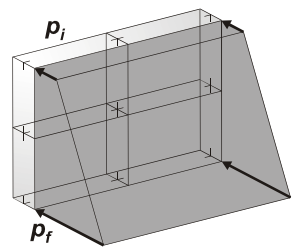
Id	Tipo	Area cm2	A V2 cm2	A V3 cm2	Jt cm4	J 2-2 cm4	J 3-3 cm4	W 2-2 cm3	W 3-3 cm3	Wp 2-2 cm3	Wp 3-3 cm3
1	Rettangolare: b=60 h=60	3600.00	3000.00	3000.00	1.822e+06	1.080e+06	1.080e+06	3.600e+04	3.600e+04	5.400e+04	5.400e+04
2	Rettangolare: b=50 h=50	2500.00	2083.33	2083.33	8.785e+05	5.208e+05	5.208e+05	2.083e+04	2.083e+04	3.125e+04	3.125e+04
3	Rettangolare: b=50 h=40	2000.00	1666.67	1666.67	5.498e+05	4.167e+05	2.667e+05	1.667e+04	1.333e+04	2.500e+04	2.000e+04
4	L regolare: bi=60 ht=90 bs=40 hi=30	4200.00	0.0	0.0	1.752e+06	9.629e+05	2.938e+06	2.696e+04	5.961e+04	5.300e+04	9.675e+04
5	T ribassata: bi=25 ht=60 bs=45 hs=16	1820.00	0.0	0.0	2.781e+05	1.788e+05	5.845e+05	7946.30	1.726e+04	1.497e+04	2.852e+04
6	T ribassata: bi=25 ht=80 bs=45 hs=16	2320.00	0.0	0.0	3.823e+05	2.048e+05	1.356e+06	9103.70	3.053e+04	1.810e+04	4.922e+04
7	Doppio T: bi=25 ba=11 bs=45 ht=110 hi=23 hs=15	2042.00	0.0	0.0	1.320e+05	1.518e+05	2.953e+06	6748.45	4.921e+04	1.337e+04	7.070e+04
8	Doppio T: bi=25 ba=11 bs=45 ht=130 hi=23 hs=15	2262.00	0.0	0.0	1.409e+05	1.541e+05	4.581e+06	6847.04	6.512e+04	1.397e+04	9.222e+04
9	T ribassata: bi=20 ht=40 bs=250 hs=5	1950.00	0.0	0.0	8.335e+04	6.534e+06	2.535e+05	5.227e+04	8362.32	8.163e+04	1.507e+04
10	T ribassata: bi=20 ht=40 bs=180 hs=5	1600.00	0.0	0.0	8.044e+04	2.453e+06	2.308e+05	2.726e+04	8028.99	4.400e+04	1.444e+04
11	Rettangolare: b=80 h=50	4000.00	3333.33	3333.33	2.021e+06	2.133e+06	8.333e+05	5.333e+04	3.333e+04	8.000e+04	5.000e+04
12	L inversa: bi=60 ht=90 bs=40 hi=30	4200.00	0.0	0.0	1.752e+06	9.629e+05	2.938e+06	2.696e+04	5.961e+04	5.300e+04	9.675e+04
13	Rettangolare: b=50 h=50	2500.00	2083.33	2083.33	8.785e+05	5.208e+05	5.208e+05	2.083e+04	2.083e+04	3.125e+04	3.125e+04

MODELLAZIONE DELLE AZIONI

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)

 <p>Carico concentrato nodale</p>	 <p>Spostamento impresso</p>
 <p>Carico distribuito globale</p>	 <p>Carico distribuito locale</p>
 <p>Carico concentrato globale</p>	 <p>Carico concentrato locale</p>
 <p>Carico termico 2D</p>	 <p>Carico termico 3D</p>
 <p>Carico pressione uniforme</p>	 <p>Carico pressione variabile</p>

SCHEMATIZZAZIONE DEI CASI DI CARICO

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
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2pk (permanente pannelli n.c.d.)	
4	Qsk	CDC=Qsk (variabile solai)	
5	Qnk	CDC=Qnk (carico da neve)	
6	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=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2pk (permanente pannelli n.c.d.)
			partecipazione:1.00 per 4 CDC=Qsk (variabile solai)
			partecipazione:1.00 per 5 CDC=Qnk (carico da neve)
			partecipazione:1.00 per 15 CDC=G1k (peso proprio trave boomerang)
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
14	Edk	CDC=Ed (dinamico SLU) verticale	come precedente CDC sismico
15	Gk	CDC=G1k (peso proprio trave boomerang)	Azioni applicate:

DEFINIZIONE DELLE COMBINAZIONI

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

$$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \dots$$

Combinazione caratteristica (rara) SLE

$$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \dots$$

Combinazione frequente SLE

$$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

Combinazione quasi permanente SLE

$$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \dots$$

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

$$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

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

$$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \dots$$

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	$\psi 0$	$\psi 1$	$\psi 2$
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
<i>Carichi permanenti</i>	<i>Favorevoli</i>	γ_{G1}	0,9	1,0	1,0
	<i>Sfavorevoli</i>		1,1	1,3	1,0
<i>Carichi permanenti non strutturali (Non compiutamente definiti)</i>	<i>Favorevoli</i>	γ_{G2}	0,8	0,8	0,8
	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	γ_{Qi}	0,0	0,0	0,0
	<i>Sfavorevoli</i>		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	SLE(r)	Comb. SLE(rara) 15	
16	SLE(r)	Comb. SLE(rara) 16	
17	SLE(r)	Comb. SLE(rara) 17	
18	SLE(r)	Comb. SLE(rara) 18	
19	SLE(r)	Comb. SLE(rara) 19	
20	SLE(r)	Comb. SLE(rara) 20	
21	SLE(r)	Comb. SLE(rara) 21	
22	SLE(f)	Comb. SLE(freq.) 22	
23	SLE(f)	Comb. SLE(freq.) 23	
24	SLE(f)	Comb. SLE(freq.) 24	
25	SLE(f)	Comb. SLE(freq.) 25	
26	SLE(f)	Comb. SLE(freq.) 26	
27	SLE(p)	Comb. SLE(perm.) 27	
28	SLE(p)	Comb. SLE(perm.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLU	Comb. SLU A1 (SLV sism.) 41	
42	SLU	Comb. SLU A1 (SLV sism.) 42	
43	SLU	Comb. SLU A1 (SLV sism.) 43	
44	SLU	Comb. SLU A1 (SLV sism.) 44	
45	SLU	Comb. SLU A1 (SLV sism.) 45	
46	SLU	Comb. SLU A1 (SLV sism.) 46	
47	SLU	Comb. SLU A1 (SLV sism.) 47	
48	SLU	Comb. SLU A1 (SLV sism.) 48	
49	SLU	Comb. SLU A1 (SLV sism.) 49	
50	SLU	Comb. SLU A1 (SLV sism.) 50	
51	SLU	Comb. SLU A1 (SLV sism.) 51	
52	SLU	Comb. SLU A1 (SLV sism.) 52	
53	SLU	Comb. SLU A1 (SLV sism.) 53	
54	SLU	Comb. SLU A1 (SLV sism.) 54	
55	SLU	Comb. SLU A1 (SLV sism.) 55	
56	SLU	Comb. SLU A1 (SLV sism.) 56	

Cmb	Tipo	Sigla Id	effetto P-delta
57	SLU	Comb. SLU A1 (SLV sism.) 57	
58	SLU	Comb. SLU A1 (SLV sism.) 58	
59	SLU	Comb. SLU A1 (SLV sism.) 59	
60	SLU	Comb. SLU A1 (SLV sism.) 60	
61	SLU	Comb. SLU A1 (SLV sism.) 61	
62	SLU	Comb. SLU A1 (SLV sism.) 62	
63	SLU	Comb. SLU A1 (SLV sism.) 63	
64	SLU	Comb. SLU A1 (SLV sism.) 64	
65	SLU	Comb. SLU A1 (SLV sism.) 65	
66	SLU	Comb. SLU A1 (SLV sism.) 66	
67	SLU	Comb. SLU A1 (SLV sism.) 67	
68	SLU	Comb. SLU A1 (SLV sism.) 68	
69	SLU	Comb. SLU A1 (SLV sism.) 69	
70	SLU	Comb. SLU A1 (SLV sism.) 70	
71	SLU	Comb. SLU A1 (SLV sism.) 71	
72	SLU	Comb. SLU A1 (SLV sism.) 72	
73	SLU	Comb. SLU A1 (SLV sism.) 73	
74	SLU	Comb. SLU A1 (SLV sism.) 74	
75	SLU	Comb. SLU A1 (SLV sism.) 75	
76	SLU	Comb. SLU A1 (SLV sism.) 76	
77	SLU	Comb. SLU A1 (SLV sism.) 77	
78	SLU	Comb. SLU A1 (SLV sism.) 78	
79	SLU	Comb. SLU A1 (SLV sism.) 79	
80	SLU	Comb. SLU A1 (SLV sism.) 80	
81	SLU	Comb. SLU A1 (SLV sism.) 81	
82	SLU	Comb. SLU A1 (SLV sism.) 82	
83	SLU	Comb. SLU A1 (SLV sism.) 83	
84	SLU	Comb. SLU A1 (SLV sism.) 84	
85	SLU	Comb. SLU A1 (SLV sism.) 85	
86	SLU	Comb. SLU A1 (SLV sism.) 86	
87	SLU	Comb. SLU A1 (SLV sism.) 87	
88	SLU	Comb. SLU A1 (SLV sism.) 88	
89	SLU	Comb. SLU A1 (SLV sism.) 89	
90	SLU	Comb. SLU A1 (SLV sism.) 90	
91	SLU	Comb. SLU A1 (SLV sism.) 91	
92	SLU	Comb. SLU A1 (SLV sism.) 92	
93	SLD(sis)	Comb. SLE (SLD Danno sism.) 93	
94	SLD(sis)	Comb. SLE (SLD Danno sism.) 94	
95	SLD(sis)	Comb. SLE (SLD Danno sism.) 95	
96	SLD(sis)	Comb. SLE (SLD Danno sism.) 96	
97	SLD(sis)	Comb. SLE (SLD Danno sism.) 97	
98	SLD(sis)	Comb. SLE (SLD Danno sism.) 98	
99	SLD(sis)	Comb. SLE (SLD Danno sism.) 99	
100	SLD(sis)	Comb. SLE (SLD Danno sism.) 100	
101	SLD(sis)	Comb. SLE (SLD Danno sism.) 101	
102	SLD(sis)	Comb. SLE (SLD Danno sism.) 102	
103	SLD(sis)	Comb. SLE (SLD Danno sism.) 103	
104	SLD(sis)	Comb. SLE (SLD Danno sism.) 104	
105	SLD(sis)	Comb. SLE (SLD Danno sism.) 105	
106	SLD(sis)	Comb. SLE (SLD Danno sism.) 106	
107	SLD(sis)	Comb. SLE (SLD Danno sism.) 107	
108	SLD(sis)	Comb. SLE (SLD Danno sism.) 108	
109	SLD(sis)	Comb. SLE (SLD Danno sism.) 109	
110	SLD(sis)	Comb. SLE (SLD Danno sism.) 110	
111	SLD(sis)	Comb. SLE (SLD Danno sism.) 111	
112	SLD(sis)	Comb. SLE (SLD Danno sism.) 112	
113	SLD(sis)	Comb. SLE (SLD Danno sism.) 113	
114	SLD(sis)	Comb. SLE (SLD Danno sism.) 114	
115	SLD(sis)	Comb. SLE (SLD Danno sism.) 115	
116	SLD(sis)	Comb. SLE (SLD Danno sism.) 116	
117	SLD(sis)	Comb. SLE (SLD Danno sism.) 117	
118	SLD(sis)	Comb. SLE (SLD Danno sism.) 118	
119	SLD(sis)	Comb. SLE (SLD Danno sism.) 119	
120	SLD(sis)	Comb. SLE (SLD Danno sism.) 120	
121	SLD(sis)	Comb. SLE (SLD Danno sism.) 121	
122	SLD(sis)	Comb. SLE (SLD Danno sism.) 122	
123	SLD(sis)	Comb. SLE (SLD Danno sism.) 123	
124	SLD(sis)	Comb. SLE (SLD Danno sism.) 124	
125	SLU	Comb. SLU A1 (SLV sism.) 125	
126	SLU	Comb. SLU A1 (SLV sism.) 126	
127	SLU	Comb. SLU A1 (SLV sism.) 127	
128	SLU	Comb. SLU A1 (SLV sism.) 128	

Cmb	Tipo	Sigla Id	effetto P-delta
129	SLU	Comb. SLU A1 (SLV sism.) 129	
130	SLU	Comb. SLU A1 (SLV sism.) 130	
131	SLU	Comb. SLU A1 (SLV sism.) 131	
132	SLU	Comb. SLU A1 (SLV sism.) 132	
133	SLU	Comb. SLU A1 (SLV sism.) 133	
134	SLU	Comb. SLU A1 (SLV sism.) 134	
135	SLU	Comb. SLU A1 (SLV sism.) 135	
136	SLU	Comb. SLU A1 (SLV sism.) 136	
137	SLU	Comb. SLU A1 (SLV sism.) 137	
138	SLU	Comb. SLU A1 (SLV sism.) 138	
139	SLU	Comb. SLU A1 (SLV sism.) 139	
140	SLU	Comb. SLU A1 (SLV sism.) 140	
141	SLU	Comb. SLU A1 (SLV sism.) 141	
142	SLU	Comb. SLU A1 (SLV sism.) 142	
143	SLU	Comb. SLU A1 (SLV sism.) 143	
144	SLU	Comb. SLU A1 (SLV sism.) 144	
145	SLU	Comb. SLU A1 (SLV sism.) 145	
146	SLU	Comb. SLU A1 (SLV sism.) 146	
147	SLU	Comb. SLU A1 (SLV sism.) 147	
148	SLU	Comb. SLU A1 (SLV sism.) 148	
149	SLU	Comb. SLU A1 (SLV sism.) 149	
150	SLU	Comb. SLU A1 (SLV sism.) 150	
151	SLU	Comb. SLU A1 (SLV sism.) 151	
152	SLU	Comb. SLU A1 (SLV sism.) 152	
153	SLU	Comb. SLU A1 (SLV sism.) 153	
154	SLU	Comb. SLU A1 (SLV sism.) 154	
155	SLU	Comb. SLU A1 (SLV sism.) 155	
156	SLU	Comb. SLU A1 (SLV sism.) 156	
157	SLU(acc.)	Comb. SLU (Accid.) 157	
158	SLU(acc.)	Comb. SLU (Accid.) 158	

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	1.30	1.50	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	1.30	1.50	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1.30	1.30	1.50	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1.00	1.00	0.80	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.00	1.00	0.80	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1.30	1.30	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.30	1.30	1.50	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.30	1.30	1.50	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.00	1.00	0.80	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1.00	1.00	0.80	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1.00	1.00	0.80	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1.00	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
16	1.00	1.00	1.00	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1.00	1.00	1.00	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	1.00	1.00	1.00	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...
20	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
21	1.00	1.00	1.00	0.70	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
22	1.00	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
	1.00													
23	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
24	1.00	1.00	1.00	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
25	1.00	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
	1.00													
26	1.00	1.00	1.00	0.60	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00													
27	1.00	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
	1.00													
28	1.00	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
	1.00													
29	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
30	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
31	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
32	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
33	1.00	1.00	1.00	0.60	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
34	1.00	1.00	1.00	0.60	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
35	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
36	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
37	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
38	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
39	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
40	1.00	1.00	1.00	0.60	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
41	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
42	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
43	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
44	1.00	1.00	1.00	0.60	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
45	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
46	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
47	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
48	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
49	1.00	1.00	1.00	0.60	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
50	1.00	1.00	1.00	0.60	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
51	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
52	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
53	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
54	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
55	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	-0.30

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...
	1.00													
56	1.00	1.00	1.00	0.60	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
57	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
58	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
59	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	-0.30
	1.00													
60	1.00	1.00	1.00	0.60	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.30
	1.00													
61	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
62	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
63	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
64	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
65	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
66	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
67	1.00	1.00	1.00	0.60	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
68	1.00	1.00	1.00	0.60	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
69	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
70	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
71	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
72	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
73	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
74	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
75	1.00	1.00	1.00	0.60	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00													
76	1.00	1.00	1.00	0.60	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.30
	1.00													
77	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
78	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
79	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
80	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
81	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
82	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
83	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
84	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
85	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
86	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
87	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
88	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
89	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
90	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.30
	1.00													

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...
91	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	-0.30
	1.00													
92	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.30
	1.00													
93	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0
	1.00													
94	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0
	1.00													
95	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0
	1.00													
96	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0
	1.00													
97	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0
	1.00													
98	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	0.0
	1.00													
99	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	0.0
	1.00													
100	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	0.0
	1.00													
101	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	0.0
	1.00													
102	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	0.0
	1.00													
103	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	0.0
	1.00													
104	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	0.0
	1.00													
105	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0
	1.00													
106	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0
	1.00													
107	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0
	1.00													
108	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0
	1.00													
109	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0
	1.00													
110	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0
	1.00													
111	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0
	1.00													
112	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0
	1.00													
113	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0
	1.00													
114	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	0.0
	1.00													
115	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	0.0
	1.00													
116	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	0.0
	1.00													
117	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	0.0
	1.00													
118	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	0.0
	1.00													
119	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	0.0
	1.00													
120	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	0.0
	1.00													
121	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0
	1.00													
122	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0
	1.00													
123	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0
	1.00													
124	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0
	1.00													
125	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
126	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00

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...
	1.00													
127	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
128	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
129	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
130	1.00	1.00	1.00	0.60	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
131	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
132	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
133	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
134	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
135	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
136	1.00	1.00	1.00	0.60	0.0	-0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
137	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
138	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
139	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
140	1.00	1.00	1.00	0.60	0.0	0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
141	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
142	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
143	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
144	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
145	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
146	1.00	1.00	1.00	0.60	0.0	0.0	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
147	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	-1.00
	1.00													
148	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.30	0.0	0.0	0.0	0.0	0.0	1.00
	1.00													
149	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
150	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
151	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
152	1.00	1.00	1.00	0.60	0.0	0.0	-0.30	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
153	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
154	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	-0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
155	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	-1.00
	1.00													
156	1.00	1.00	1.00	0.60	0.0	0.0	0.30	0.0	0.30	0.0	0.0	0.0	0.0	1.00
	1.00													
157	1.00	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
	1.00													
158	1.00	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
	1.00													

RISULTATI ELEMENTI TIPO TRAVE

LEGENDA RISULTATI ELEMENTI TIPO TRAVE

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

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

- tipo **pilastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

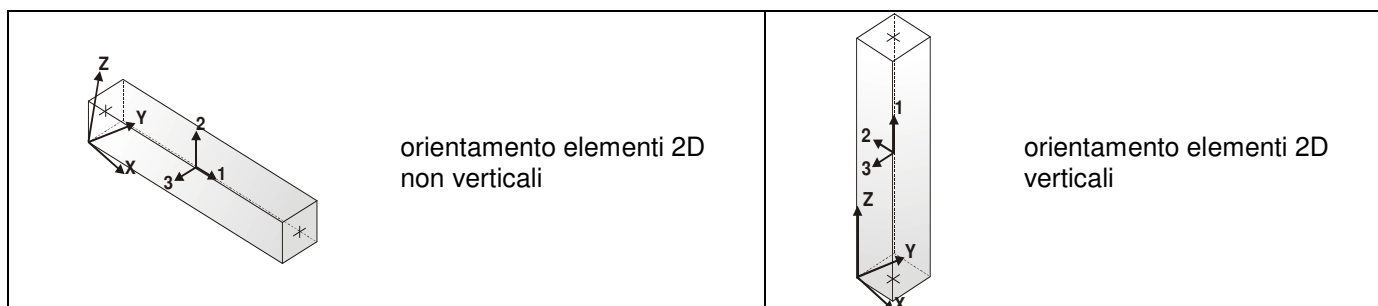
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

Per gli elementi tipo *pilastro* sono riportati in tabella i seguenti valori:

Pilas.	numero dell'elemento pilastro
Cmb	combinazione in cui si verificano i valori riportati
M3 mx/mn	momento flettente in campata M3 max (prima riga) / min (seconda riga)
M2 mx/mn	momento flettente in campata M2 max (prima riga) / min (seconda riga)
D2/D3	freccia massima in direzione 2 (prima riga) / direzione 3 (seconda riga)
Q2/Q3	carico totale in direzione 2 (prima riga) / direzione 3 (seconda riga)
Pos.	ascissa del punto iniziale e finale dell'elemento
N, V2, ecc..	sei componenti di sollecitazione al piede ed in sommità dell'elemento

Per gli elementi tipo *trave in elevazione* sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri.

Per gli elementi tipo *trave in fondazione* (trave f.) sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri e la massima pressione sul terreno.



Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		kN m	kN m	m	kN	cm	kN	kN	kN	kN m	kN m	kN m
44	5	31.67	0.05	-4.80e-04	-1.62	0.0	-31.61	86.52	0.13	-0.09	0.0	0.0
		0.0	0.0	-2.01e-05	0.0	36.9	-31.15	84.90	0.13	-0.09	0.05	31.67
44	7	31.66	0.68	-4.80e-04	-1.62	0.0	-31.67	86.50	1.85	-0.11	0.0	0.0
		0.0	0.0	-3.65e-05	0.0	36.9	-31.21	84.88	1.85	-0.11	0.68	31.66
44	9	53.96	0.0	-8.07e-04	-2.10	0.0	-55.27	147.10	-0.36	-0.14	0.0	0.0
		0.0	-0.13	-2.72e-05	0.0	36.9	-54.68	145.00	-0.36	-0.14	-0.13	53.96
44	11	53.96	0.31	-8.07e-04	-2.10	0.0	-55.31	147.09	0.84	-0.15	0.0	0.0
		0.0	0.0	-3.87e-05	0.0	36.9	-54.72	144.99	0.84	-0.15	0.31	53.96
44	12	44.71	0.04	-6.68e-04	-1.62	0.0	-43.43	121.81	0.12	-0.11	0.0	0.0
		0.0	0.0	-2.12e-05	0.0	36.9	-42.97	120.20	0.12	-0.11	0.04	44.71
44	15	31.56	0.0	-4.78e-04	-1.62	0.0	-32.63	86.23	-0.09	-0.09	0.0	0.0
		0.0	-0.03	-2.01e-05	0.0	36.9	-32.18	84.61	-0.09	-0.09	-0.03	31.56
44	17	31.55	0.39	-4.78e-04	-1.62	0.0	-32.68	86.21	1.05	-0.11	0.0	0.0
		0.0	0.0	-3.10e-05	0.0	36.9	-32.22	84.60	1.05	-0.11	0.39	31.55
44	19	40.25	0.0	-6.03e-04	-1.62	0.0	-40.51	109.76	-0.10	-0.11	0.0	0.0
		0.0	-0.04	-2.08e-05	0.0	36.9	-40.06	108.14	-0.10	-0.11	-0.04	40.25
44	21	40.25	0.26	-6.03e-04	-1.62	0.0	-40.54	109.75	0.70	-0.11	0.0	0.0
		0.0	0.0	-2.85e-05	0.0	36.9	-40.09	108.13	0.70	-0.11	0.26	40.25

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
44	22	31.56	0.0	-4.78e-04	-1.62	0.0	-32.63	86.23	-0.09	-0.09	0.0	0.0
		0.0	-0.03	-2.01e-05	0.0	36.9	-32.18	84.61	-0.09	-0.09	-0.03	31.56
44	23	31.56	0.26	-4.78e-04	-1.62	0.0	-32.66	86.22	0.71	-0.10	0.0	0.0
		0.0	0.0	-2.77e-05	0.0	36.9	-32.21	84.60	0.71	-0.10	0.26	31.56
44	24	33.30	0.0	-5.03e-04	-1.62	0.0	-34.21	90.93	-0.09	-0.10	0.0	0.0
		0.0	-0.03	-2.02e-05	0.0	36.9	-33.75	89.31	-0.09	-0.10	-0.03	33.30
44	26	33.29	0.22	-5.03e-04	-1.62	0.0	-34.23	90.93	0.59	-0.10	0.0	0.0
		0.0	0.0	-2.68e-05	0.0	36.9	-33.78	89.31	0.59	-0.10	0.22	33.29
44	27	31.56	0.0	-4.78e-04	-1.62	0.0	-32.63	86.23	-0.09	-0.09	0.0	0.0
		0.0	-0.03	-2.01e-05	0.0	36.9	-32.18	84.61	-0.09	-0.09	-0.03	31.56
44	28	31.56	0.22	-4.78e-04	-1.62	0.0	-32.66	86.22	0.59	-0.10	0.0	0.0
		0.0	0.0	-2.67e-05	0.0	36.9	-32.20	84.60	0.59	-0.10	0.22	31.56
44	29	30.86	0.0	-4.60e-04	-1.62	0.0	-7.45	84.33	-43.89	38.58	0.0	0.0
		0.0	-16.22	3.29e-03	0.0	36.9	-6.99	82.72	-43.89	38.58	-16.22	30.86
44	36	32.25	16.66	-4.96e-04	-1.62	0.0	-57.87	88.10	45.08	-38.78	0.0	0.0
		0.0	0.0	-3.34e-03	0.0	36.9	-57.41	86.49	45.08	-38.78	16.66	32.25
44	69	33.01	0.0	-4.82e-04	-1.62	0.0	37.61	90.15	-24.30	9.25	0.0	0.0
		0.0	-8.98	6.74e-04	0.0	36.9	38.07	88.53	-24.30	9.25	-8.98	33.01
44	76	30.10	9.42	-4.73e-04	-1.62	0.0	-102.93	82.29	25.49	-9.46	0.0	0.0
		0.0	0.0	-7.27e-04	0.0	36.9	-102.47	80.67	25.49	-9.46	9.42	30.10
44	101	32.27	0.0	-4.88e-04	-1.62	0.0	-20.34	88.15	-22.60	20.64	0.0	0.0
		0.0	-8.35	1.36e-03	0.0	36.9	-19.88	86.53	-22.60	20.64	-8.35	32.27
44	104	30.84	8.79	-4.68e-04	-1.62	0.0	-44.98	84.29	23.79	-20.84	0.0	0.0
		0.0	0.0	-1.42e-03	0.0	36.9	-44.52	82.67	23.79	-20.84	8.79	30.84
44	113	33.37	0.0	-4.99e-04	-1.62	0.0	2.82	91.13	-12.54	4.70	0.0	0.0
		0.0	-4.63	3.16e-04	0.0	36.9	3.27	89.52	-12.54	4.70	-4.63	33.37
44	116	29.74	5.07	-4.57e-04	-1.62	0.0	-68.13	81.30	13.73	-4.90	0.0	0.0
		0.0	0.0	-3.69e-04	0.0	36.9	-67.68	79.69	13.73	-4.90	5.07	29.74
44	142	39.55	0.0	-6.12e-04	-1.62	0.0	-16.78	107.86	-14.35	11.15	0.0	0.0
		0.0	-5.30	7.84e-04	0.0	36.9	-16.32	106.24	-14.35	11.15	-5.30	39.55
44	157	31.56	0.0	-4.78e-04	-1.62	0.0	-32.63	86.23	-0.09	-0.09	0.0	0.0
		0.0	-0.03	-2.01e-05	0.0	36.9	-32.18	84.61	-0.09	-0.09	-0.03	31.56
44	158	31.56	0.22	-4.78e-04	-1.62	0.0	-32.66	86.22	0.59	-0.10	0.0	0.0
		0.0	0.0	-2.67e-05	0.0	36.9	-32.20	84.60	0.59	-0.10	0.22	31.56
45	5	230.59	0.32	1.11e-04	-6.81	0.0	-6.64	1.88	-4.18e-06	0.09	0.32	230.27
		228.36	0.32	4.58e-05	0.0	125.1	-8.56	-4.93	-4.18e-06	0.09	0.32	228.36
45	7	230.49	0.38	1.11e-04	-6.81	0.0	-6.70	1.89	-3.85e-06	0.11	0.38	230.17
		228.28	0.38	7.83e-05	0.0	125.1	-8.63	-4.91	-3.85e-06	0.11	0.38	228.28
45	9	385.28	0.50	1.85e-04	-8.85	0.0	-12.71	3.59	-8.03e-06	0.14	0.50	384.37
		383.33	0.50	6.38e-05	0.0	125.1	-15.21	-5.26	-8.03e-06	0.14	0.50	383.33
45	11	385.21	0.55	1.85e-04	-8.85	0.0	-12.75	3.60	-7.81e-06	0.15	0.55	384.30
		383.27	0.55	8.65e-05	0.0	125.1	-15.25	-5.25	-7.81e-06	0.15	0.55	383.27
45	15	229.01	0.33	1.10e-04	-6.81	0.0	-7.67	2.17	-4.20e-06	0.09	0.33	228.58
		227.03	0.33	4.70e-05	0.0	125.1	-9.59	-4.64	-4.20e-06	0.09	0.33	227.03
45	17	228.94	0.37	1.10e-04	-6.81	0.0	-7.71	2.18	-3.99e-06	0.11	0.37	228.51
		226.98	0.37	6.86e-05	0.0	125.1	-9.63	-4.63	-3.99e-06	0.11	0.37	226.98
45	19	288.42	0.37	1.39e-04	-6.81	0.0	-8.81	2.49	-5.90e-06	0.11	0.37	287.86
		286.71	0.37	4.80e-05	0.0	125.1	-10.73	-4.32	-5.90e-06	0.11	0.37	286.71
45	21	288.38	0.40	1.39e-04	-6.81	0.0	-8.84	2.50	-5.75e-06	0.11	0.40	287.81
		286.67	0.40	6.32e-05	0.0	125.1	-10.76	-4.31	-5.75e-06	0.11	0.40	286.67
45	22	229.01	0.33	1.10e-04	-6.81	0.0	-7.67	2.17	-4.20e-06	0.09	0.33	228.58
		227.03	0.33	4.70e-05	0.0	125.1	-9.59	-4.64	-4.20e-06	0.09	0.33	227.03
45	23	228.96	0.36	1.10e-04	-6.81	0.0	-7.70	2.17	-4.05e-06	0.10	0.36	228.53
		226.99	0.36	6.21e-05	0.0	125.1	-9.62	-4.63	-4.05e-06	0.10	0.36	226.99
45	24	240.89	0.34	1.16e-04	-6.81	0.0	-7.90	2.23	-4.54e-06	0.10	0.34	240.43
		238.97	0.34	4.72e-05	0.0	125.1	-9.82	-4.58	-4.54e-06	0.10	0.34	238.97
45	26	240.85	0.37	1.16e-04	-6.81	0.0	-7.92	2.24	-4.41e-06	0.10	0.37	240.39
		238.93	0.37	6.02e-05	0.0	125.1	-9.84	-4.57	-4.41e-06	0.10	0.37	238.93
45	27	229.01	0.33	1.10e-04	-6.81	0.0	-7.67	2.17	-4.20e-06	0.09	0.33	228.58
		227.03	0.33	4.70e-05	0.0	125.1	-9.59	-4.64	-4.20e-06	0.09	0.33	227.03
45	28	228.97	0.36	1.10e-04	-6.81	0.0	-7.69	2.17	-4.07e-06	0.10	0.36	228.54
		227.00	0.36	6.00e-05	0.0	125.1	-9.61	-4.63	-4.07e-06	0.10	0.36	227.00
45	47	214.88	-136.89	1.07e-04	-6.81	0.0	-0.35	4.55	4.34	-38.58	-141.96	213.08
		213.08	-141.96	-5.03e-03	0.0	125.1	-2.27	-2.25	4.34	-38.58	-136.89	214.36
45	50	243.99	142.67	1.13e-04	-6.81	0.0	-15.03	-0.21	-4.34	38.78	142.67	243.99
		239.63	137.61	5.15e-03	0.0	125.1	-16.96	-7.02	-4.34	38.78	137.61	239.63
45	63	217.99	-35.01	1.18e-04	-6.81	0.0	2.35	10.57	5.28	-9.25	-43.04	209.20
		209.20	-43.04	-6.91e-04	0.0	125.1	0.43	3.76	5.28	-9.25	-35.01	217.99
45	66	247.88	43.76	1.02e-04	-6.81	0.0	-17.73	-6.22	-5.28	9.46	43.76	247.88
		236.00	35.73	8.11e-04	0.0	125.1	-19.65	-13.03	-5.28	9.46	35.73	236.00
45	102	232.21	-71.09	1.14e-04	-6.81	0.0	-4.85	2.85	2.32	-20.01	-73.73	231.46
		230.78	-73.73	-2.57e-03	0.0	125.1	-6.78	-3.95	2.32	-20.01	-71.09	230.78

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
45	103	225.81	74.45	1.06e-04	-6.81	0.0	-10.53	1.49	-2.32	20.21	74.45	225.61
		223.22	71.81	2.69e-03	0.0	125.1	-12.45	-5.32	-2.32	20.21	71.81	223.22
45	110	232.69	-17.93	1.19e-04	-6.81	0.0	-3.48	5.97	2.85	-4.70	-22.22	229.41
		229.41	-22.22	-3.04e-04	0.0	125.1	-5.40	-0.84	2.85	-4.70	-17.93	232.62
45	111	227.66	22.93	1.01e-04	-6.81	0.0	-11.90	-1.62	-2.85	4.90	22.93	227.66
		221.37	18.65	4.23e-04	0.0	125.1	-13.83	-8.43	-2.85	4.90	18.65	221.37
45	128	300.34	-37.52	1.49e-04	-6.81	0.0	-10.92	0.70	3.69	-11.15	-42.06	300.22
		297.39	-42.06	-1.41e-03	0.0	125.1	-12.85	-6.10	3.69	-11.15	-37.52	297.39
45	129	157.80	42.77	7.14e-05	-6.81	0.0	-4.46	3.64	-3.69	11.35	42.77	156.86
		156.61	38.23	1.53e-03	0.0	125.1	-6.38	-3.17	-3.69	11.35	38.23	156.61
45	157	229.01	0.33	1.10e-04	-6.81	0.0	-7.67	2.17	-4.20e-06	0.09	0.33	228.58
		227.03	0.33	4.70e-05	0.0	125.1	-9.59	-4.64	-4.20e-06	0.09	0.33	227.03
45	158	228.97	0.36	1.10e-04	-6.81	0.0	-7.69	2.17	-4.07e-06	0.10	0.36	228.54
		227.00	0.36	6.00e-05	0.0	125.1	-9.61	-4.63	-4.07e-06	0.10	0.36	227.00
46	5	228.14	0.32	-4.71e-05	-1.32	0.0	-14.71	26.71	0.06	-0.09	0.31	221.81
		221.81	0.31	-9.98e-06	0.0	24.3	-14.34	25.38	0.06	-0.09	0.32	228.14
46	7	228.06	0.38	-4.71e-05	-1.32	0.0	-14.78	26.69	0.01	-0.11	0.38	221.73
		221.73	0.38	-1.65e-05	0.0	24.3	-14.40	25.37	0.01	-0.11	0.38	228.06
46	9	382.90	0.50	-7.88e-05	-1.72	0.0	-26.66	45.80	0.10	-0.14	0.48	371.98
		371.98	0.48	-1.41e-05	0.0	24.3	-26.17	44.08	0.10	-0.14	0.50	382.90
46	11	382.84	0.55	-7.88e-05	-1.72	0.0	-26.70	45.79	0.08	-0.15	0.53	371.93
		371.93	0.53	-1.86e-05	0.0	24.3	-26.22	44.07	0.08	-0.15	0.55	382.84
46	15	226.80	0.33	-4.68e-05	-1.32	0.0	-15.74	26.42	0.06	-0.09	0.32	220.55
		220.55	0.32	-1.02e-05	0.0	24.3	-15.37	25.09	0.06	-0.09	0.33	226.80
46	17	226.75	0.37	-4.68e-05	-1.32	0.0	-15.78	26.40	0.03	-0.11	0.37	220.50
		220.50	0.37	-1.46e-05	0.0	24.3	-15.41	25.08	0.03	-0.11	0.37	226.75
46	19	286.40	0.37	-5.90e-05	-1.32	0.0	-19.19	34.25	0.08	-0.11	0.36	278.24
		278.24	0.36	-1.06e-05	0.0	24.3	-18.81	32.93	0.08	-0.11	0.37	286.40
46	21	286.36	0.40	-5.90e-05	-1.32	0.0	-19.22	34.24	0.06	-0.11	0.39	278.20
		278.20	0.39	-1.36e-05	0.0	24.3	-18.84	32.92	0.06	-0.11	0.40	286.36
46	22	226.80	0.33	-4.68e-05	-1.32	0.0	-15.74	26.42	0.06	-0.09	0.32	220.55
		220.55	0.32	-1.02e-05	0.0	24.3	-15.37	25.09	0.06	-0.09	0.33	226.80
46	23	226.77	0.36	-4.68e-05	-1.32	0.0	-15.77	26.41	0.04	-0.10	0.35	220.51
		220.51	0.35	-1.33e-05	0.0	24.3	-15.40	25.09	0.04	-0.10	0.36	226.77
46	24	238.72	0.34	-4.92e-05	-1.32	0.0	-16.43	27.98	0.06	-0.10	0.33	232.09
		232.09	0.33	-1.03e-05	0.0	24.3	-16.06	26.66	0.06	-0.10	0.34	238.72
46	26	238.69	0.37	-4.92e-05	-1.32	0.0	-16.45	27.98	0.04	-0.10	0.35	232.05
		232.05	0.35	-1.29e-05	0.0	24.3	-16.08	26.65	0.04	-0.10	0.37	238.69
46	27	226.80	0.33	-4.68e-05	-1.32	0.0	-15.74	26.42	0.06	-0.09	0.32	220.55
		220.55	0.32	-1.02e-05	0.0	24.3	-15.37	25.09	0.06	-0.09	0.33	226.80
46	28	226.77	0.36	-4.68e-05	-1.32	0.0	-15.76	26.41	0.04	-0.10	0.35	220.52
		220.52	0.35	-1.28e-05	0.0	24.3	-15.39	25.09	0.04	-0.10	0.36	226.77
46	31	208.39	-133.23	-4.23e-05	-1.32	0.0	-17.41	25.81	-15.29	40.31	-133.23	202.27
		202.27	-139.27	1.54e-03	0.0	24.3	-17.03	24.48	-15.29	40.31	-139.27	208.39
46	34	245.15	139.98	-5.13e-05	-1.32	0.0	-14.12	27.01	15.37	-40.51	133.92	238.76
		238.76	133.92	-1.56e-03	0.0	24.3	-13.75	25.69	15.37	-40.51	139.98	245.15
46	69	217.82	-35.01	-4.69e-05	-1.32	0.0	8.79	20.63	-3.42	9.25	-42.15	212.95
		212.95	-42.15	2.70e-04	0.0	24.3	9.16	19.31	-3.42	9.25	-35.01	217.82
46	76	235.73	42.84	-4.66e-05	-1.32	0.0	-40.32	32.19	3.50	-9.46	42.84	228.08
		228.08	35.73	-2.96e-04	0.0	24.3	-39.95	30.87	3.50	-9.46	35.73	235.73
46	94	227.59	-69.18	-4.66e-05	-1.32	0.0	-17.44	27.45	-7.97	20.95	-69.18	221.08
		221.08	-72.38	7.91e-04	0.0	24.3	-17.06	26.13	-7.97	20.95	-72.38	227.59
46	95	225.96	73.10	-4.69e-05	-1.32	0.0	-14.09	25.37	8.05	-21.15	69.88	219.95
		219.95	69.88	-8.16e-04	0.0	24.3	-13.72	24.05	8.05	-21.15	73.10	225.96
46	113	232.42	-17.93	-4.90e-05	-1.32	0.0	-3.92	24.77	-1.72	4.70	-21.83	226.57
		226.57	-21.83	1.29e-04	0.0	24.3	-3.55	23.44	-1.72	4.70	-17.93	232.42
46	116	221.12	22.53	-4.45e-05	-1.32	0.0	-27.61	28.05	1.80	-4.90	22.53	214.46
		214.46	18.65	-1.55e-04	0.0	24.3	-27.24	26.73	1.80	-4.90	18.65	221.12
46	142	297.21	-37.52	-6.21e-05	-1.32	0.0	-13.69	34.31	-4.46	11.15	-38.82	289.09
		289.09	-38.82	4.02e-04	0.0	24.3	-13.32	32.98	-4.46	11.15	-37.52	297.21
46	147	156.33	39.52	-3.15e-05	-1.32	0.0	-17.84	18.51	4.54	-11.35	39.52	151.94
		151.94	38.23	-4.28e-04	0.0	24.3	-17.46	17.19	4.54	-11.35	38.23	156.33
46	157	226.80	0.33	-4.68e-05	-1.32	0.0	-15.74	26.42	0.06	-0.09	0.32	220.55
		220.55	0.32	-1.02e-05	0.0	24.3	-15.37	25.09	0.06	-0.09	0.33	226.80
46	158	226.77	0.36	-4.68e-05	-1.32	0.0	-15.76	26.41	0.04	-0.10	0.35	220.52
		220.52	0.35	-1.28e-05	0.0	24.3	-15.39	25.09	0.04	-0.10	0.36	226.77
47	5	221.81	0.31	5.35e-04	-7.34	0.0	-14.71	-26.71	-0.06	0.09	0.31	221.81
		176.44	0.23	6.82e-05	0.0	149.4	-16.79	-34.04	-0.06	0.09	0.23	176.44
47	7	221.73	0.38	5.35e-04	-7.34	0.0	-14.78	-26.69	-0.01	0.11	0.38	221.73
		176.39	0.36	1.10e-04	0.0	149.4	-16.85	-34.03	-0.01	0.11	0.36	176.39
47	9	371.98	0.48	8.97e-04	-9.54	0.0	-26.66	-45.80	-0.10	0.14	0.48	371.98
		296.44	0.32	9.69e-05	0.0	149.4	-29.35	-55.34	-0.10	0.14	0.32	296.44

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
47	11	371.93	0.53	8.96e-04	-9.54	0.0	-26.70	-45.79	-0.08	0.15	0.53	371.93
		296.40	0.41	1.26e-04	0.0	149.4	-29.40	-55.33	-0.08	0.15	0.41	296.40
47	15	220.55	0.32	5.32e-04	-7.34	0.0	-15.74	-26.42	-0.06	0.09	0.32	220.55
		175.61	0.23	7.00e-05	0.0	149.4	-17.81	-33.75	-0.06	0.09	0.23	175.61
47	17	220.50	0.37	5.32e-04	-7.34	0.0	-15.78	-26.40	-0.03	0.11	0.37	220.50
		175.57	0.32	9.80e-05	0.0	149.4	-17.85	-33.74	-0.03	0.11	0.32	175.57
47	19	278.24	0.36	6.71e-04	-7.34	0.0	-19.19	-34.25	-0.08	0.11	0.36	278.24
		221.59	0.24	7.27e-05	0.0	149.4	-21.26	-41.59	-0.08	0.11	0.24	221.59
47	21	278.20	0.39	6.71e-04	-7.34	0.0	-19.22	-34.24	-0.06	0.11	0.39	278.20
		221.57	0.30	9.23e-05	0.0	149.4	-21.29	-41.58	-0.06	0.11	0.30	221.57
47	22	220.55	0.32	5.32e-04	-7.34	0.0	-15.74	-26.42	-0.06	0.09	0.32	220.55
		175.61	0.23	7.00e-05	0.0	149.4	-17.81	-33.75	-0.06	0.09	0.23	175.61
47	23	220.51	0.35	5.32e-04	-7.34	0.0	-15.77	-26.41	-0.04	0.10	0.35	220.51
		175.58	0.30	8.96e-05	0.0	149.4	-17.84	-33.75	-0.04	0.10	0.30	175.58
47	24	232.09	0.33	5.60e-04	-7.34	0.0	-16.43	-27.98	-0.06	0.10	0.33	232.09
		184.81	0.24	7.06e-05	0.0	149.4	-18.50	-35.32	-0.06	0.10	0.24	184.81
47	26	232.05	0.35	5.60e-04	-7.34	0.0	-16.45	-27.98	-0.04	0.10	0.35	232.05
		184.78	0.29	8.74e-05	0.0	149.4	-18.53	-35.31	-0.04	0.10	0.29	184.78
47	27	220.55	0.32	5.32e-04	-7.34	0.0	-15.74	-26.42	-0.06	0.09	0.32	220.55
		175.61	0.23	7.00e-05	0.0	149.4	-17.81	-33.75	-0.06	0.09	0.23	175.61
47	28	220.52	0.35	5.32e-04	-7.34	0.0	-15.76	-26.41	-0.04	0.10	0.35	220.52
		175.59	0.29	8.68e-05	0.0	149.4	-17.84	-33.75	-0.04	0.10	0.29	175.59
47	47	208.53	-104.05	5.06e-04	-7.34	0.0	-2.57	-23.53	21.66	-38.58	-135.86	208.53
		167.79	-135.86	-0.01	0.0	149.4	-4.64	-30.87	21.66	-38.58	-104.05	167.79
47	50	232.50	136.56	5.58e-04	-7.34	0.0	-28.96	-29.29	-21.74	38.78	136.56	232.50
		183.38	104.62	0.01	0.0	149.4	-31.04	-36.62	-21.74	38.78	104.62	183.38
47	63	212.95	-34.15	5.26e-04	-7.34	0.0	14.67	-21.61	5.61	-9.25	-42.15	212.95
		175.08	-42.15	-2.55e-03	0.0	149.4	12.60	-28.95	5.61	-9.25	-34.15	175.08
47	66	228.08	42.84	5.38e-04	-7.34	0.0	-46.20	-31.21	-5.70	9.46	42.84	228.08
		176.10	34.73	2.73e-03	0.0	149.4	-48.27	-38.55	-5.70	9.46	34.73	176.10
47	102	224.32	-54.00	5.43e-04	-7.34	0.0	-9.72	-26.63	11.28	-20.01	-70.61	224.32
		179.05	-70.61	-5.96e-03	0.0	149.4	-11.80	-33.97	11.28	-20.01	-54.00	179.05
47	103	216.72	71.31	5.22e-04	-7.34	0.0	-21.81	-26.18	-11.36	20.21	71.31	216.72
		172.12	54.57	6.13e-03	0.0	149.4	-23.88	-33.52	-11.36	20.21	54.57	172.12
47	110	226.57	-17.70	5.53e-04	-7.34	0.0	-0.84	-25.63	2.87	-4.70	-21.83	226.57
		182.80	-21.83	-1.25e-03	0.0	149.4	-2.91	-32.97	2.87	-4.70	-17.70	182.80
47	111	214.46	22.53	5.11e-04	-7.34	0.0	-30.69	-27.18	-2.95	4.90	22.53	214.46
		168.38	18.27	1.43e-03	0.0	149.4	-32.76	-34.52	-2.95	4.90	18.27	168.38
47	128	289.09	-29.37	7.01e-04	-7.34	0.0	-11.63	-37.14	6.24	-11.15	-38.82	289.09
		228.50	-38.82	-3.28e-03	0.0	149.4	-13.70	-44.47	6.24	-11.15	-29.37	228.50
47	129	151.95	39.52	3.64e-04	-7.34	0.0	-19.90	-15.68	-6.33	11.35	39.52	151.95
		122.67	29.94	3.46e-03	0.0	149.4	-21.98	-23.02	-6.33	11.35	29.94	122.67
47	157	220.55	0.32	5.32e-04	-7.34	0.0	-15.74	-26.42	-0.06	0.09	0.32	220.55
		175.61	0.23	7.00e-05	0.0	149.4	-17.81	-33.75	-0.06	0.09	0.23	175.61
47	158	220.52	0.35	5.32e-04	-7.34	0.0	-15.76	-26.41	-0.04	0.10	0.35	220.52
		175.59	0.29	8.68e-05	0.0	149.4	-17.84	-33.75	-0.04	0.10	0.29	175.59
48	5	221.81	0.31	-5.35e-04	-7.34	0.0	-16.79	34.04	0.06	-0.09	0.23	176.44
		176.44	0.23	-6.82e-05	0.0	149.4	-14.71	26.71	0.06	-0.09	0.31	221.81
48	7	221.73	0.38	-5.35e-04	-7.34	0.0	-16.85	34.03	0.01	-0.11	0.36	176.39
		176.39	0.36	-1.10e-04	0.0	149.4	-14.78	26.69	0.01	-0.11	0.38	221.73
48	9	371.98	0.48	-8.97e-04	-9.54	0.0	-29.35	55.34	0.10	-0.14	0.32	296.44
		296.44	0.32	-9.69e-05	0.0	149.4	-26.66	45.80	0.10	-0.14	0.48	371.98
48	11	371.93	0.53	-8.96e-04	-9.54	0.0	-29.40	55.33	0.08	-0.15	0.41	296.40
		296.40	0.41	-1.26e-04	0.0	149.4	-26.70	45.79	0.08	-0.15	0.53	371.93
48	15	220.55	0.32	-5.32e-04	-7.34	0.0	-17.81	33.75	0.06	-0.09	0.23	175.61
		175.61	0.23	-7.00e-05	0.0	149.4	-15.74	26.42	0.06	-0.09	0.32	220.55
48	17	220.50	0.37	-5.32e-04	-7.34	0.0	-17.85	33.74	0.03	-0.11	0.37	175.57
		175.57	0.32	-9.80e-05	0.0	149.4	-15.78	26.40	0.03	-0.11	0.37	220.50
48	19	278.24	0.36	-6.71e-04	-7.34	0.0	-21.26	41.59	0.08	-0.11	0.24	221.59
		221.59	0.24	-7.27e-05	0.0	149.4	-19.19	34.25	0.08	-0.11	0.36	278.24
48	21	278.20	0.39	-6.71e-04	-7.34	0.0	-21.29	41.58	0.06	-0.11	0.30	221.57
		221.57	0.30	-9.23e-05	0.0	149.4	-19.22	34.24	0.06	-0.11	0.39	278.20
48	22	220.55	0.32	-5.32e-04	-7.34	0.0	-17.81	33.75	0.06	-0.09	0.23	175.61
		175.61	0.23	-7.00e-05	0.0	149.4	-15.74	26.42	0.06	-0.09	0.32	220.55
48	23	220.51	0.35	-5.32e-04	-7.34	0.0	-17.84	33.75	0.04	-0.10	0.30	175.58
		175.58	0.30	-8.96e-05	0.0	149.4	-15.77	26.41	0.04	-0.10	0.35	220.51
48	24	232.09	0.33	-5.60e-04	-7.34	0.0	-18.50	35.32	0.06	-0.10	0.24	184.81
		184.81	0.24	-7.06e-05	0.0	149.4	-16.43	27.98	0.06	-0.10	0.33	232.09
48	26	232.05	0.35	-5.60e-04	-7.34	0.0	-18.53	35.31	0.04	-0.10	0.29	184.78
		184.78	0.29	-8.74e-05	0.0	149.4	-16.45	27.98	0.04	-0.10	0.35	232.05
48	27	220.55	0.32	-5.32e-04	-7.34	0.0	-17.81	33.75	0.06	-0.09	0.23	175.61
		175.61	0.23	-7.00e-05	0.0	149.4	-15.74	26.42	0.06	-0.09	0.32	220.55

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
48	28	220.52	0.35	-5.32e-04	-7.34	0.0	-17.84	33.75	0.04	-0.10	0.29	175.59
		175.59	0.29	-8.68e-05	0.0	149.4	-15.76	26.41	0.04	-0.10	0.35	220.52
48	29	208.53	-104.05	-5.06e-04	-7.34	0.0	-4.64	30.87	-21.66	38.58	-104.05	167.79
		167.79	-135.86	0.01	0.0	149.4	-2.56	23.53	-21.66	38.58	-135.86	208.53
48	36	232.50	136.56	-5.58e-04	-7.34	0.0	-31.04	36.62	21.74	-38.78	104.62	183.38
		183.38	104.62	-0.01	0.0	149.4	-28.97	29.29	21.74	-38.78	136.56	232.50
48	69	212.95	-34.15	-5.26e-04	-7.34	0.0	12.60	28.95	-5.61	9.25	-34.15	175.08
		175.08	-42.15	2.55e-03	0.0	149.4	14.67	21.61	-5.61	9.25	-42.15	212.95
48	76	228.08	42.84	-5.38e-04	-7.34	0.0	-48.28	38.55	5.70	-9.46	34.73	176.10
		176.10	34.73	-2.73e-03	0.0	149.4	-46.20	31.21	5.70	-9.46	42.84	228.08
48	93	224.32	-54.00	-5.43e-04	-7.34	0.0	-11.80	33.97	-11.28	20.01	-54.00	179.05
		179.05	-70.61	5.96e-03	0.0	149.4	-9.72	26.63	-11.28	20.01	-70.61	224.32
48	96	216.72	71.31	-5.22e-04	-7.34	0.0	-23.88	33.52	11.36	-20.21	54.57	172.12
		172.12	54.57	-6.13e-03	0.0	149.4	-21.81	26.18	11.36	-20.21	71.31	216.72
48	113	226.57	-17.70	-5.53e-04	-7.34	0.0	-2.91	32.97	-2.87	4.70	-17.70	182.80
		182.80	-21.83	1.25e-03	0.0	149.4	-0.84	25.63	-2.87	4.70	-21.83	226.57
48	116	214.46	22.53	-5.11e-04	-7.34	0.0	-32.76	34.52	2.95	-4.90	18.27	168.38
		168.38	18.27	-1.43e-03	0.0	149.4	-30.69	27.18	2.95	-4.90	22.53	214.46
48	142	289.09	-29.37	-7.01e-04	-7.34	0.0	-13.70	44.48	-6.24	11.15	-29.37	228.50
		228.50	-38.82	3.28e-03	0.0	149.4	-11.63	37.14	-6.24	11.15	-38.82	289.09
48	147	151.94	39.52	-3.64e-04	-7.34	0.0	-21.97	23.02	6.33	-11.35	29.94	122.67
		122.67	29.94	-3.46e-03	0.0	149.4	-19.90	15.68	6.33	-11.35	39.52	151.94
48	157	220.55	0.32	-5.32e-04	-7.34	0.0	-17.81	33.75	0.06	-0.09	0.23	175.61
		175.61	0.23	-7.00e-05	0.0	149.4	-15.74	26.42	0.06	-0.09	0.32	220.55
48	158	220.52	0.35	-5.32e-04	-7.34	0.0	-17.84	33.75	0.04	-0.10	0.29	175.59
		175.59	0.29	-8.68e-05	0.0	149.4	-15.76	26.41	0.04	-0.10	0.35	220.52
49	4	261.90	0.45	3.50e-04	-3.01	0.0	-26.83	-49.45	-0.05	0.15	0.45	261.90
		240.77	0.43	4.12e-05	0.0	41.5	-27.68	-52.46	-0.05	0.15	0.43	240.77
49	5	176.44	0.23	2.36e-04	-2.31	0.0	-16.79	-34.04	-0.06	0.09	0.23	176.44
		161.84	0.20	2.07e-05	0.0	41.5	-17.44	-36.36	-0.06	0.09	0.20	161.84
49	7	176.39	0.36	2.36e-04	-2.31	0.0	-16.85	-34.03	-0.01	0.11	0.36	176.39
		161.80	0.35	3.31e-05	0.0	41.5	-17.50	-36.34	-0.01	0.11	0.35	161.80
49	9	296.44	0.32	3.96e-04	-3.01	0.0	-29.35	-55.34	-0.10	0.14	0.32	296.44
		272.86	0.28	2.94e-05	0.0	41.5	-30.20	-58.35	-0.10	0.14	0.28	272.86
49	11	296.40	0.41	3.96e-04	-3.01	0.0	-29.40	-55.33	-0.08	0.15	0.41	296.40
		272.83	0.38	3.81e-05	0.0	41.5	-30.25	-58.34	-0.08	0.15	0.38	272.83
49	12	245.42	0.24	3.28e-04	-2.31	0.0	-21.96	-45.80	-0.09	0.11	0.24	245.42
		225.95	0.20	2.19e-05	0.0	41.5	-22.61	-48.11	-0.09	0.11	0.20	225.95
49	15	175.61	0.23	2.35e-04	-2.31	0.0	-17.81	-33.75	-0.06	0.09	0.23	175.61
		161.13	0.21	2.12e-05	0.0	41.5	-18.47	-36.07	-0.06	0.09	0.21	161.13
49	17	175.57	0.32	2.35e-04	-2.31	0.0	-17.85	-33.74	-0.03	0.11	0.32	175.57
		161.10	0.31	2.95e-05	0.0	41.5	-18.51	-36.06	-0.03	0.11	0.31	161.10
49	18	198.57	0.32	2.65e-04	-2.31	0.0	-19.58	-37.66	-0.04	0.11	0.32	198.57
		182.47	0.31	3.00e-05	0.0	41.5	-20.23	-39.97	-0.04	0.11	0.31	182.47
49	19	221.59	0.24	2.96e-04	-2.31	0.0	-21.26	-41.59	-0.08	0.11	0.24	221.59
		203.87	0.21	2.21e-05	0.0	41.5	-21.91	-43.90	-0.08	0.11	0.21	203.87
49	21	221.57	0.30	2.96e-04	-2.31	0.0	-21.29	-41.58	-0.06	0.11	0.30	221.57
		203.85	0.28	2.79e-05	0.0	41.5	-21.94	-43.90	-0.06	0.11	0.28	203.85
49	22	175.61	0.23	2.35e-04	-2.31	0.0	-17.81	-33.75	-0.06	0.09	0.23	175.61
		161.13	0.21	2.12e-05	0.0	41.5	-18.47	-36.07	-0.06	0.09	0.21	161.13
49	23	175.58	0.30	2.35e-04	-2.31	0.0	-17.84	-33.75	-0.04	0.10	0.30	175.58
		161.11	0.28	2.70e-05	0.0	41.5	-18.50	-36.06	-0.04	0.10	0.28	161.11
49	24	184.81	0.24	2.47e-04	-2.31	0.0	-18.50	-35.32	-0.06	0.10	0.24	184.81
		169.68	0.21	2.14e-05	0.0	41.5	-19.16	-37.64	-0.06	0.10	0.21	169.68
49	26	184.78	0.29	2.47e-04	-2.31	0.0	-18.53	-35.31	-0.04	0.10	0.29	184.78
		169.66	0.27	2.64e-05	0.0	41.5	-19.18	-37.63	-0.04	0.10	0.27	169.66
49	27	175.61	0.23	2.35e-04	-2.31	0.0	-17.81	-33.75	-0.06	0.09	0.23	175.61
		161.13	0.21	2.12e-05	0.0	41.5	-18.47	-36.07	-0.06	0.09	0.21	161.13
49	28	175.59	0.29	2.35e-04	-2.31	0.0	-17.84	-33.75	-0.04	0.10	0.29	175.59
		161.11	0.27	2.62e-05	0.0	41.5	-18.49	-36.06	-0.04	0.10	0.27	161.11
49	47	167.79	-92.76	2.22e-04	-2.31	0.0	-2.77	-30.80	27.50	-38.58	-104.05	167.79
		154.51	-104.05	-3.93e-03	0.0	41.5	-3.42	-33.12	27.50	-38.58	-92.76	154.51
49	50	183.38	104.62	2.47e-04	-2.31	0.0	-32.91	-36.69	-27.58	38.78	104.62	183.38
		167.72	93.30	3.98e-03	0.0	41.5	-33.56	-39.00	-27.58	38.78	93.30	167.72
49	63	175.08	-31.01	2.32e-04	-2.31	0.0	19.01	-30.12	7.74	-9.25	-34.15	175.08
		162.06	-34.15	-9.31e-04	0.0	41.5	18.35	-32.43	7.74	-9.25	-31.01	162.06
49	66	176.10	34.73	2.38e-04	-2.31	0.0	-54.68	-37.38	-7.82	9.46	34.73	176.10
		160.17	31.55	9.84e-04	0.0	41.5	-55.33	-39.69	-7.82	9.46	31.55	160.17
49	102	179.05	-48.11	2.39e-04	-2.31	0.0	-10.79	-34.24	14.33	-20.01	-54.00	179.05
		164.37	-54.00	-2.02e-03	0.0	41.5	-11.45	-36.56	14.33	-20.01	-48.11	164.37
49	103	172.12	54.57	2.31e-04	-2.31	0.0	-24.88	-33.25	-14.42	20.21	54.57	172.12
		157.86	48.65	2.07e-03	0.0	41.5	-25.54	-35.56	-14.42	20.21	48.65	157.86

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
49	110	182.80	-16.07	2.44e-04	-2.31	0.0	0.43	-33.88	4.00	-4.70	-17.70	182.80
		168.25	-17.70	-4.62e-04	0.0	41.5	-0.22	-36.20	4.00	-4.70	-16.07	168.25
49	111	168.38	18.27	2.26e-04	-2.31	0.0	-36.11	-33.61	-4.08	4.90	18.27	168.38
		153.97	16.61	5.14e-04	0.0	41.5	-36.76	-35.93	-4.08	4.90	16.61	153.97
49	128	228.50	-26.13	3.07e-04	-2.31	0.0	-11.52	-46.98	7.81	-11.15	-29.37	228.50
		208.62	-29.37	-1.11e-03	0.0	41.5	-12.17	-49.29	7.81	-11.15	-26.13	208.62
49	129	122.67	29.94	1.62e-04	-2.31	0.0	-24.16	-20.52	-7.89	11.35	29.94	122.67
		113.60	26.66	1.16e-03	0.0	41.5	-24.81	-22.83	-7.89	11.35	26.66	113.60
49	157	175.61	0.23	2.35e-04	-2.31	0.0	-17.81	-33.75	-0.06	0.09	0.23	175.61
		161.13	0.21	2.12e-05	0.0	41.5	-18.47	-36.07	-0.06	0.09	0.21	161.13
49	158	175.59	0.29	2.35e-04	-2.31	0.0	-17.84	-33.75	-0.04	0.10	0.29	175.59
		161.11	0.27	2.62e-05	0.0	41.5	-18.49	-36.06	-0.04	0.10	0.27	161.11
50	5	161.07	0.20	-8.63e-04	-6.02	0.0	-24.05	59.75	0.07	-0.09	0.13	99.84
		99.84	0.13	-5.58e-05	0.0	107.9	-22.35	53.73	0.07	-0.09	0.20	161.07
50	7	161.02	0.52	-8.63e-04	-6.02	0.0	-24.11	59.73	-0.15	-0.11	0.52	99.82
		99.82	0.35	-9.05e-05	0.0	107.9	-22.41	53.71	-0.15	-0.11	0.35	161.02
50	9	271.37	0.28	-1.45e-03	-7.83	0.0	-41.99	100.08	0.19	-0.14	0.07	167.60
		167.60	0.07	-7.91e-05	0.0	107.9	-39.78	92.25	0.19	-0.14	0.28	271.37
50	11	271.34	0.38	-1.45e-03	-7.83	0.0	-42.03	100.07	0.03	-0.15	0.35	167.59
		167.59	0.35	-1.03e-04	0.0	107.9	-39.82	92.24	0.03	-0.15	0.38	271.34
50	15	160.35	0.21	-8.58e-04	-6.02	0.0	-25.07	59.46	0.11	-0.09	0.09	99.43
		99.43	0.09	-5.72e-05	0.0	107.9	-23.37	53.44	0.11	-0.09	0.21	160.35
50	17	160.32	0.35	-8.58e-04	-6.02	0.0	-25.12	59.45	-0.04	-0.11	0.35	99.42
		99.42	0.31	-8.04e-05	0.0	107.9	-23.41	53.43	-0.04	-0.11	0.31	160.32
50	19	202.77	0.21	-1.08e-03	-6.02	0.0	-30.65	74.84	0.11	-0.11	0.09	125.26
		125.26	0.09	-5.94e-05	0.0	107.9	-28.95	68.82	0.11	-0.11	0.21	202.77
50	21	202.75	0.28	-1.08e-03	-6.02	0.0	-30.68	74.83	9.34e-03	-0.11	0.27	125.25
		125.25	0.27	-7.56e-05	0.0	107.9	-28.98	68.81	9.34e-03	-0.11	0.28	202.75
50	22	160.35	0.21	-8.58e-04	-6.02	0.0	-25.07	59.46	0.11	-0.09	0.09	99.43
		99.43	0.09	-5.72e-05	0.0	107.9	-23.37	53.44	0.11	-0.09	0.21	160.35
50	23	160.33	0.28	-8.58e-04	-6.02	0.0	-25.10	59.45	8.33e-03	-0.10	0.27	99.42
		99.42	0.27	-7.34e-05	0.0	107.9	-23.40	53.43	8.33e-03	-0.10	0.28	160.33
50	24	168.83	0.21	-9.03e-04	-6.02	0.0	-26.19	62.54	0.11	-0.10	0.09	104.60
		104.60	0.09	-5.77e-05	0.0	107.9	-24.49	56.52	0.11	-0.10	0.21	168.83
50	26	168.81	0.27	-9.03e-04	-6.02	0.0	-26.21	62.53	0.02	-0.10	0.24	104.59
		104.59	0.24	-7.16e-05	0.0	107.9	-24.51	56.51	0.02	-0.10	0.27	168.81
50	27	160.35	0.21	-8.58e-04	-6.02	0.0	-25.07	59.46	0.11	-0.09	0.09	99.43
		99.43	0.09	-5.72e-05	0.0	107.9	-23.37	53.44	0.11	-0.09	0.21	160.35
50	28	160.33	0.27	-8.58e-04	-6.02	0.0	-25.10	59.46	0.02	-0.10	0.24	99.42
		99.42	0.24	-7.11e-05	0.0	107.9	-23.40	53.43	0.02	-0.10	0.27	160.33
50	29	153.74	-54.95	-8.22e-04	-6.02	0.0	-6.18	56.61	-35.53	38.58	-54.95	95.88
		95.88	-92.76	0.01	0.0	107.9	-4.48	50.59	-35.53	38.58	-92.76	153.74
50	36	166.92	93.30	-8.95e-04	-6.02	0.0	-44.02	62.30	35.58	-38.78	55.44	102.97
		102.97	55.44	-0.01	0.0	107.9	-42.32	56.28	35.58	-38.78	93.30	166.92
50	69	161.33	-20.48	-8.54e-04	-6.02	0.0	24.67	58.50	-9.28	9.25	-20.48	101.42
		101.42	-31.01	2.63e-03	0.0	107.9	26.37	52.48	-9.28	9.25	-31.01	161.33
50	76	159.33	31.55	-8.62e-04	-6.02	0.0	-74.87	60.41	9.33	-9.46	20.96	97.43
		97.43	20.96	-2.77e-03	0.0	107.9	-73.17	54.39	9.33	-9.46	31.55	159.33
50	93	163.61	-28.40	-8.77e-04	-6.02	0.0	-16.04	60.52	-18.59	20.01	-28.40	101.55
		101.55	-48.11	5.60e-03	0.0	107.9	-14.34	54.50	-18.59	20.01	-48.11	163.61
50	96	157.05	48.65	-8.40e-04	-6.02	0.0	-34.15	58.39	18.64	-20.21	28.89	97.30
		97.30	28.89	-5.75e-03	0.0	107.9	-32.45	52.37	18.64	-20.21	48.65	157.05
50	113	167.51	-10.60	-8.93e-04	-6.02	0.0	-0.13	61.49	-4.85	4.70	-10.60	104.41
		104.41	-16.07	1.31e-03	0.0	107.9	1.58	55.47	-4.85	4.70	-16.07	167.51
50	116	153.15	16.61	-8.23e-04	-6.02	0.0	-50.07	57.42	4.90	-4.90	11.09	94.44
		94.44	11.09	-1.45e-03	0.0	107.9	-48.37	51.40	4.90	-4.90	16.61	153.15
50	142	207.95	-15.81	-1.12e-03	-6.02	0.0	-14.75	77.14	-9.94	11.15	-15.81	128.06
		128.06	-26.13	3.05e-03	0.0	107.9	-13.05	71.12	-9.94	11.15	-26.13	207.95
50	147	112.71	26.67	-5.95e-04	-6.02	0.0	-35.45	41.77	9.99	-11.35	16.30	70.79
		70.79	16.30	-3.19e-03	0.0	107.9	-33.75	35.75	9.99	-11.35	26.67	112.71
50	157	160.35	0.21	-8.58e-04	-6.02	0.0	-25.07	59.46	0.11	-0.09	0.09	99.43
		99.43	0.09	-5.72e-05	0.0	107.9	-23.37	53.44	0.11	-0.09	0.21	160.35
50	158	160.33	0.27	-8.58e-04	-6.02	0.0	-25.10	59.46	0.02	-0.10	0.24	99.42
		99.42	0.24	-7.11e-05	0.0	107.9	-23.40	53.43	0.02	-0.10	0.27	160.33
51	5	99.84	0.13	1.22e-03	-4.70	0.0	-24.05	-59.75	-0.07	0.09	0.13	99.84
		33.25	0.05	5.76e-05	0.0	107.2	-25.38	-64.45	-0.07	0.09	0.05	33.25
51	7	99.82	0.68	1.22e-03	-4.70	0.0	-24.11	-59.73	0.15	0.11	0.52	99.82
		33.24	0.52	9.88e-05	0.0	107.2	-25.44	-64.43	0.15	0.11	0.68	33.24
51	9	167.60	0.07	2.05e-03	-6.10	0.0	-41.99	-100.08	-0.19	0.14	0.07	167.60
		57.01	-0.13	7.98e-05	0.0	107.2	-43.71	-106.18	-0.19	0.14	-0.13	57.01
51	11	167.59	0.35	2.05e-03	-6.10	0.0	-42.03	-100.07	-0.03	0.15	0.35	167.59
		57.01	0.31	1.09e-04	0.0	107.2	-43.76	-106.17	-0.03	0.15	0.31	57.01

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
51	15	99.43	0.09	1.21e-03	-4.70	0.0	-25.07	-59.46	-0.11	0.09	0.09	99.43
		33.15	-0.03	5.83e-05	0.0	107.2	-26.40	-64.16	-0.11	0.09	-0.03	33.15
51	17	99.42	0.39	1.21e-03	-4.70	0.0	-25.12	-59.45	0.04	0.11	0.35	99.42
		33.15	0.35	8.58e-05	0.0	107.2	-26.44	-64.15	0.04	0.11	0.39	33.15
51	19	125.26	0.09	1.53e-03	-4.70	0.0	-30.65	-74.84	-0.11	0.11	0.09	125.26
		42.49	-0.04	6.05e-05	0.0	107.2	-31.98	-79.54	-0.11	0.11	-0.04	42.49
51	21	125.25	0.27	1.53e-03	-4.70	0.0	-30.68	-74.83	-9.34e-03	0.11	0.27	125.25
		42.49	0.26	7.97e-05	0.0	107.2	-32.01	-79.53	-9.34e-03	0.11	0.26	42.49
51	22	99.43	0.09	1.21e-03	-4.70	0.0	-25.07	-59.46	-0.11	0.09	0.09	99.43
		33.15	-0.03	5.83e-05	0.0	107.2	-26.40	-64.16	-0.11	0.09	-0.03	33.15
51	23	99.42	0.27	1.21e-03	-4.70	0.0	-25.10	-59.45	-8.33e-03	0.10	0.27	99.42
		33.15	0.26	7.76e-05	0.0	107.2	-26.43	-64.15	-8.33e-03	0.10	0.26	33.15
51	24	104.60	0.09	1.28e-03	-4.70	0.0	-26.19	-62.54	-0.11	0.10	0.09	104.60
		35.02	-0.03	5.88e-05	0.0	107.2	-27.52	-67.23	-0.11	0.10	-0.03	35.02
51	26	104.59	0.24	1.28e-03	-4.70	0.0	-26.21	-62.53	-0.02	0.10	0.24	104.59
		35.02	0.22	7.53e-05	0.0	107.2	-27.54	-67.23	-0.02	0.10	0.22	35.02
51	27	99.43	0.09	1.21e-03	-4.70	0.0	-25.07	-59.46	-0.11	0.09	0.09	99.43
		33.15	-0.03	5.83e-05	0.0	107.2	-26.40	-64.16	-0.11	0.09	-0.03	33.15
51	28	99.42	0.24	1.21e-03	-4.70	0.0	-25.10	-59.46	-0.02	0.10	0.24	99.42
		33.15	0.22	7.48e-05	0.0	107.2	-26.43	-64.15	-0.02	0.10	0.22	33.15
51	47	95.88	-16.22	1.16e-03	-4.70	0.0	-4.10	-56.79	37.87	-38.58	-54.95	95.88
		32.44	-54.95	-0.01	0.0	107.2	-5.43	-61.48	37.87	-38.58	-16.22	32.44
51	50	102.97	55.44	1.26e-03	-4.70	0.0	-46.10	-62.12	-37.92	38.78	55.44	102.97
		33.87	16.66	0.01	0.0	107.2	-47.42	-66.82	-37.92	38.78	16.66	33.87
51	63	101.42	-8.98	1.22e-03	-4.70	0.0	31.52	-60.00	8.58	-9.25	-20.48	101.42
		34.54	-20.48	-2.55e-03	0.0	107.2	30.19	-64.70	8.58	-9.25	-8.98	34.54
51	66	97.43	20.96	1.21e-03	-4.70	0.0	-81.72	-58.91	-8.63	9.46	20.96	97.43
		31.77	9.42	2.70e-03	0.0	107.2	-83.04	-63.61	-8.63	9.46	9.42	31.77
51	102	101.55	-8.32	1.24e-03	-4.70	0.0	-14.99	-60.81	19.77	-20.01	-28.40	101.55
		33.82	-28.40	-5.56e-03	0.0	107.2	-16.31	-65.51	19.77	-20.01	-8.32	33.82
51	103	97.30	28.89	1.19e-03	-4.70	0.0	-35.21	-58.10	-19.82	20.21	28.89	97.30
		32.48	8.76	5.71e-03	0.0	107.2	-36.54	-62.80	-19.82	20.21	8.76	32.48
51	110	104.41	-4.63	1.26e-03	-4.70	0.0	3.40	-62.47	4.46	-4.70	-10.60	104.41
		34.91	-10.60	-1.25e-03	0.0	107.2	2.07	-67.16	4.46	-4.70	-4.63	34.91
51	111	94.44	11.09	1.16e-03	-4.70	0.0	-53.59	-56.45	-4.51	4.90	11.09	94.44
		31.40	5.07	1.40e-03	0.0	107.2	-54.92	-61.14	-4.51	4.90	5.07	31.40
51	128	128.06	-5.30	1.57e-03	-4.70	0.0	-12.80	-78.98	10.23	-11.15	-15.81	128.06
		40.95	-15.81	-2.91e-03	0.0	107.2	-14.12	-83.68	10.23	-11.15	-5.30	40.95
51	129	70.79	16.30	8.53e-04	-4.70	0.0	-37.40	-39.93	-10.28	11.35	16.30	70.79
		25.36	5.74	3.06e-03	0.0	107.2	-38.73	-44.62	-10.28	11.35	5.74	25.36
51	157	99.43	0.09	1.21e-03	-4.70	0.0	-25.07	-59.46	-0.11	0.09	0.09	99.43
		33.15	-0.03	5.83e-05	0.0	107.2	-26.40	-64.16	-0.11	0.09	-0.03	33.15
51	158	99.42	0.24	1.21e-03	-4.70	0.0	-25.10	-59.46	-0.02	0.10	0.24	99.42
		33.15	0.22	7.48e-05	0.0	107.2	-26.43	-64.15	-0.02	0.10	0.22	33.15
55	5	99.84	0.13	-1.22e-03	-4.70	0.0	-25.38	64.45	0.07	-0.09	0.05	33.25
		33.25	0.05	-5.76e-05	0.0	107.2	-24.05	59.75	0.07	-0.09	0.13	99.84
55	7	99.82	0.68	-1.22e-03	-4.70	0.0	-25.44	64.43	-0.15	-0.11	0.68	33.24
		33.24	0.52	-9.88e-05	0.0	107.2	-24.11	59.73	-0.15	-0.11	0.52	99.82
55	9	167.60	0.07	-2.05e-03	-6.10	0.0	-43.71	106.18	0.19	-0.14	-0.13	57.01
		57.01	-0.13	-7.98e-05	0.0	107.2	-41.99	100.08	0.19	-0.14	0.07	167.60
55	11	167.59	0.35	-2.05e-03	-6.10	0.0	-43.76	106.17	0.03	-0.15	0.31	57.01
		57.01	0.31	-1.09e-04	0.0	107.2	-42.03	100.07	0.03	-0.15	0.35	167.59
55	15	99.43	0.09	-1.21e-03	-4.70	0.0	-26.40	64.16	0.11	-0.09	-0.03	33.15
		33.15	-0.03	-5.83e-05	0.0	107.2	-25.07	59.46	0.11	-0.09	0.09	99.43
55	17	99.42	0.39	-1.21e-03	-4.70	0.0	-26.44	64.15	-0.04	-0.11	0.39	33.15
		33.15	0.35	-8.58e-05	0.0	107.2	-25.12	59.45	-0.04	-0.11	0.35	99.42
55	19	125.26	0.09	-1.53e-03	-4.70	0.0	-31.98	79.54	0.11	-0.11	-0.04	42.49
		42.49	-0.04	-6.05e-05	0.0	107.2	-30.65	74.84	0.11	-0.11	0.09	125.26
55	21	125.25	0.27	-1.53e-03	-4.70	0.0	-32.01	79.53	9.34e-03	-0.11	0.26	42.49
		42.49	0.26	-7.97e-05	0.0	107.2	-30.68	74.83	9.34e-03	-0.11	0.27	125.25
55	22	99.43	0.09	-1.21e-03	-4.70	0.0	-26.40	64.16	0.11	-0.09	-0.03	33.15
		33.15	-0.03	-5.83e-05	0.0	107.2	-25.07	59.46	0.11	-0.09	0.09	99.43
55	23	99.42	0.27	-1.21e-03	-4.70	0.0	-26.43	64.15	8.33e-03	-0.10	0.26	33.15
		33.15	0.26	-7.76e-05	0.0	107.2	-25.10	59.45	8.33e-03	-0.10	0.27	99.42
55	24	104.60	0.09	-1.28e-03	-4.70	0.0	-27.52	67.23	0.11	-0.10	-0.03	35.02
		35.02	-0.03	-5.88e-05	0.0	107.2	-26.19	62.54	0.11	-0.10	0.09	104.60
55	26	104.59	0.24	-1.28e-03	-4.70	0.0	-27.54	67.23	0.02	-0.10	0.22	35.02
		35.02	0.22	-7.53e-05	0.0	107.2	-26.21	62.53	0.02	-0.10	0.24	104.59
55	27	99.43	0.09	-1.21e-03	-4.70	0.0	-26.40	64.16	0.11	-0.09	-0.03	33.15
		33.15	-0.03	-5.83e-05	0.0	107.2	-25.07	59.46	0.11	-0.09	0.09	99.43
55	28	99.42	0.24	-1.21e-03	-4.70	0.0	-26.43	64.15	0.02	-0.10	0.22	33.15
		33.15	0.22	-7.48e-05	0.0	107.2	-25.10	59.46	0.02	-0.10	0.24	99.42

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
55	29	95.88	-16.22	-1.16e-03	-4.70	0.0	-5.43	61.48	-37.87	38.58	-16.22	32.44
		32.44	-54.95	0.01	0.0	107.2	-4.10	56.79	-37.87	38.58	-54.95	95.88
55	36	102.97	55.44	-1.26e-03	-4.70	0.0	-47.42	66.82	37.92	-38.78	16.66	33.87
		33.87	16.66	-0.01	0.0	107.2	-46.10	62.12	37.92	-38.78	55.44	102.97
55	69	101.42	-8.98	-1.22e-03	-4.70	0.0	30.19	64.70	-8.58	9.25	-8.98	34.54
		34.54	-20.48	2.55e-03	0.0	107.2	31.52	60.00	-8.58	9.25	-20.48	101.42
55	76	97.43	20.96	-1.21e-03	-4.70	0.0	-83.04	63.61	8.63	-9.46	9.42	31.77
		31.77	9.42	-2.70e-03	0.0	107.2	-81.72	58.91	8.63	-9.46	20.96	97.43
55	93	101.55	-8.32	-1.24e-03	-4.70	0.0	-16.31	65.51	-19.77	20.01	-8.32	33.83
		33.83	-28.40	5.56e-03	0.0	107.2	-14.99	60.81	-19.77	20.01	-28.40	101.55
55	96	97.30	28.89	-1.19e-03	-4.70	0.0	-36.54	62.80	19.82	-20.21	8.76	32.48
		32.48	8.76	-5.71e-03	0.0	107.2	-35.21	58.10	19.82	-20.21	28.89	97.30
55	113	104.41	-4.63	-1.26e-03	-4.70	0.0	2.07	67.16	-4.46	4.70	-4.63	34.91
		34.91	-10.60	1.25e-03	0.0	107.2	3.40	62.46	-4.46	4.70	-10.60	104.41
55	116	94.44	11.09	-1.16e-03	-4.70	0.0	-54.92	61.14	4.51	-4.90	5.07	31.40
		31.40	5.07	-1.40e-03	0.0	107.2	-53.59	56.45	4.51	-4.90	11.09	94.44
55	142	128.06	-5.30	-1.57e-03	-4.70	0.0	-14.12	83.68	-10.23	11.15	-5.30	40.95
		40.95	-15.81	2.91e-03	0.0	107.2	-12.80	78.98	-10.23	11.15	-15.81	128.06
55	147	70.79	16.30	-8.53e-04	-4.70	0.0	-38.73	44.62	10.28	-11.35	5.74	25.36
		25.36	5.74	-3.06e-03	0.0	107.2	-37.40	39.93	10.28	-11.35	16.30	70.79
55	157	99.43	0.09	-1.21e-03	-4.70	0.0	-26.40	64.16	0.11	-0.09	-0.03	33.15
		33.15	-0.03	-5.83e-05	0.0	107.2	-25.07	59.46	0.11	-0.09	0.09	99.43
55	158	99.42	0.24	-1.21e-03	-4.70	0.0	-26.43	64.15	0.02	-0.10	0.22	33.15
		33.15	0.22	-7.48e-05	0.0	107.2	-25.10	59.46	0.02	-0.10	0.24	99.42
56	5	230.59	0.32	-1.11e-04	-6.81	0.0	-8.56	4.93	-4.18e-06	-0.09	0.32	228.36
		228.36	0.32	-4.58e-05	0.0	125.1	-6.64	-1.88	-4.18e-06	-0.09	0.32	230.27
56	7	230.49	0.38	-1.11e-04	-6.81	0.0	-8.63	4.91	-3.85e-06	-0.11	0.38	228.28
		228.28	0.38	-7.83e-05	0.0	125.1	-6.70	-1.89	-3.85e-06	-0.11	0.38	230.17
56	9	385.28	0.50	-1.85e-04	-8.85	0.0	-15.21	5.26	-8.03e-06	-0.14	0.50	383.33
		383.33	0.50	-6.38e-05	0.0	125.1	-12.71	-3.59	-8.03e-06	-0.14	0.50	384.37
56	11	385.21	0.55	-1.85e-04	-8.85	0.0	-15.25	5.25	-7.81e-06	-0.15	0.55	383.27
		383.27	0.55	-8.65e-05	0.0	125.1	-12.75	-3.60	-7.81e-06	-0.15	0.55	384.30
56	15	229.01	0.33	-1.10e-04	-6.81	0.0	-9.59	4.64	-4.20e-06	-0.09	0.33	227.03
		227.03	0.33	-4.70e-05	0.0	125.1	-7.67	-2.17	-4.20e-06	-0.09	0.33	228.58
56	17	228.94	0.37	-1.10e-04	-6.81	0.0	-9.63	4.63	-3.99e-06	-0.11	0.37	226.98
		226.98	0.37	-6.86e-05	0.0	125.1	-7.71	-2.18	-3.99e-06	-0.11	0.37	228.51
56	19	288.42	0.37	-1.39e-04	-6.81	0.0	-10.73	4.32	-5.90e-06	-0.11	0.37	286.71
		286.71	0.37	-4.80e-05	0.0	125.1	-8.81	-2.49	-5.90e-06	-0.11	0.37	287.86
56	21	288.38	0.40	-1.39e-04	-6.81	0.0	-10.76	4.31	-5.75e-06	-0.11	0.40	286.67
		286.67	0.40	-6.32e-05	0.0	125.1	-8.84	-2.50	-5.75e-06	-0.11	0.40	287.81
56	22	229.01	0.33	-1.10e-04	-6.81	0.0	-9.59	4.64	-4.20e-06	-0.09	0.33	227.03
		227.03	0.33	-4.70e-05	0.0	125.1	-7.67	-2.17	-4.20e-06	-0.09	0.33	228.58
56	23	228.96	0.36	-1.10e-04	-6.81	0.0	-9.62	4.63	-4.05e-06	-0.10	0.36	226.99
		226.99	0.36	-6.21e-05	0.0	125.1	-7.70	-2.17	-4.05e-06	-0.10	0.36	228.53
56	24	240.89	0.34	-1.16e-04	-6.81	0.0	-9.82	4.58	-4.54e-06	-0.10	0.34	238.97
		238.97	0.34	-4.72e-05	0.0	125.1	-7.90	-2.23	-4.54e-06	-0.10	0.34	240.43
56	26	240.85	0.37	-1.16e-04	-6.81	0.0	-9.84	4.57	-4.41e-06	-0.10	0.37	238.93
		238.93	0.37	-6.02e-05	0.0	125.1	-7.92	-2.24	-4.41e-06	-0.10	0.37	240.39
56	27	229.01	0.33	-1.10e-04	-6.81	0.0	-9.59	4.64	-4.20e-06	-0.09	0.33	227.03
		227.03	0.33	-4.70e-05	0.0	125.1	-7.67	-2.17	-4.20e-06	-0.09	0.33	228.58
56	28	228.97	0.36	-1.10e-04	-6.81	0.0	-9.61	4.63	-4.07e-06	-0.10	0.36	227.00
		227.00	0.36	-6.00e-05	0.0	125.1	-7.69	-2.17	-4.07e-06	-0.10	0.36	228.54
56	29	214.88	-136.89	-1.07e-04	-6.81	0.0	-2.27	2.25	-4.43	38.58	-136.89	214.36
		213.08	-141.96	5.03e-03	0.0	125.1	-0.35	-4.55	-4.43	38.58	-141.96	213.08
56	36	243.99	142.67	-1.13e-04	-6.81	0.0	-16.96	7.01	4.43	-38.78	137.61	239.63
		239.63	137.61	-5.15e-03	0.0	125.1	-15.03	0.21	4.43	-38.78	142.67	243.99
56	69	217.99	-35.01	-1.18e-04	-6.81	0.0	0.43	-3.76	-5.36	9.25	-35.01	217.99
		209.20	-43.04	6.91e-04	0.0	125.1	2.35	-10.56	-5.36	9.25	-43.04	209.20
56	76	247.88	43.76	-1.03e-04	-6.81	0.0	-19.65	13.03	5.36	-9.46	35.73	236.00
		236.00	35.73	-8.11e-04	0.0	125.1	-17.73	6.22	5.36	-9.46	43.76	247.88
56	93	232.21	-71.09	-1.14e-04	-6.81	0.0	-6.78	3.95	-2.32	20.01	-71.09	230.78
		230.78	-73.73	2.57e-03	0.0	125.1	-4.85	-2.85	-2.32	20.01	-73.73	231.46
56	96	225.81	74.45	-1.06e-04	-6.81	0.0	-12.45	5.32	2.32	-20.21	71.81	223.22
		223.22	71.81	-2.69e-03	0.0	125.1	-10.53	-1.49	2.32	-20.21	74.45	225.61
56	113	232.69	-17.93	-1.19e-04	-6.81	0.0	-5.40	0.84	-2.85	4.70	-17.93	232.62
		229.41	-22.22	3.04e-04	0.0	125.1	-3.48	-5.97	-2.85	4.70	-22.22	229.41
56	116	227.66	22.93	-1.01e-04	-6.81	0.0	-13.83	8.43	2.85	-4.90	18.65	221.37
		221.37	18.65	-4.23e-04	0.0	125.1	-11.90	1.62	2.85	-4.90	22.93	227.66
56	142	300.34	-37.52	-1.49e-04	-6.81	0.0	-12.84	6.10	-3.40	11.15	-37.52	297.39
		297.39	-42.06	1.41e-03	0.0	125.1	-10.92	-0.71	-3.40	11.15	-42.06	300.22
56	147	157.79	42.77	-7.14e-05	-6.81	0.0	-6.39	3.17	3.40	-11.35	38.23	156.60
		156.60	38.23	-1.53e-03	0.0	125.1	-4.46	-3.64	3.40	-11.35	42.77	156.86

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
56	157	229.01	0.33	-1.10e-04	-6.81	0.0	-9.59	4.64	-4.20e-06	-0.09	0.33	227.03
		227.03	0.33	-4.70e-05	0.0	125.1	-7.67	-2.17	-4.20e-06	-0.09	0.33	228.58
56	158	228.97	0.36	-1.10e-04	-6.81	0.0	-9.61	4.63	-4.07e-06	-0.10	0.36	227.00
		227.00	0.36	-6.00e-05	0.0	125.1	-7.69	-2.17	-4.07e-06	-0.10	0.36	228.54
57	4	261.90	0.45	-3.50e-04	-3.01	0.0	-27.68	52.46	0.05	-0.15	0.43	240.77
		240.77	0.43	-4.12e-05	0.0	41.5	-26.83	49.45	0.05	-0.15	0.45	261.90
57	5	176.44	0.23	-2.36e-04	-2.31	0.0	-17.44	36.36	0.06	-0.09	0.20	161.84
		161.84	0.20	-2.07e-05	0.0	41.5	-16.79	34.04	0.06	-0.09	0.23	176.44
57	7	176.39	0.36	-2.36e-04	-2.31	0.0	-17.50	36.34	0.01	-0.11	0.35	161.80
		161.80	0.35	-3.31e-05	0.0	41.5	-16.85	34.03	0.01	-0.11	0.36	176.39
57	9	296.44	0.32	-3.96e-04	-3.01	0.0	-30.20	58.35	0.10	-0.14	0.28	272.86
		272.86	0.28	-2.94e-05	0.0	41.5	-29.35	55.34	0.10	-0.14	0.32	296.44
57	11	296.40	0.41	-3.96e-04	-3.01	0.0	-30.25	58.34	0.08	-0.15	0.38	272.83
		272.83	0.38	-3.81e-05	0.0	41.5	-29.40	55.33	0.08	-0.15	0.41	296.40
57	12	245.42	0.24	-3.28e-04	-2.31	0.0	-22.61	48.11	0.09	-0.11	0.20	225.95
		225.95	0.20	-2.19e-05	0.0	41.5	-21.96	45.80	0.09	-0.11	0.24	245.42
57	15	175.61	0.23	-2.35e-04	-2.31	0.0	-18.47	36.07	0.06	-0.09	0.21	161.13
		161.13	0.21	-2.12e-05	0.0	41.5	-17.81	33.75	0.06	-0.09	0.23	175.61
57	17	175.57	0.32	-2.35e-04	-2.31	0.0	-18.51	36.06	0.03	-0.11	0.31	161.10
		161.10	0.31	-2.95e-05	0.0	41.5	-17.85	33.74	0.03	-0.11	0.32	175.57
57	18	198.57	0.32	-2.65e-04	-2.31	0.0	-20.23	39.97	0.04	-0.11	0.31	182.47
		182.47	0.31	-3.00e-05	0.0	41.5	-19.58	37.66	0.04	-0.11	0.32	198.57
57	19	221.59	0.24	-2.96e-04	-2.31	0.0	-21.91	43.90	0.08	-0.11	0.21	203.87
		203.87	0.21	-2.21e-05	0.0	41.5	-21.26	41.59	0.08	-0.11	0.24	221.59
57	21	221.57	0.30	-2.96e-04	-2.31	0.0	-21.94	43.90	0.06	-0.11	0.28	203.85
		203.85	0.28	-2.79e-05	0.0	41.5	-21.29	41.58	0.06	-0.11	0.30	221.57
57	22	175.61	0.23	-2.35e-04	-2.31	0.0	-18.47	36.07	0.06	-0.09	0.21	161.13
		161.13	0.21	-2.12e-05	0.0	41.5	-17.81	33.75	0.06	-0.09	0.23	175.61
57	23	175.58	0.30	-2.35e-04	-2.31	0.0	-18.50	36.06	0.04	-0.10	0.28	161.11
		161.11	0.28	-2.70e-05	0.0	41.5	-17.84	33.75	0.04	-0.10	0.30	175.58
57	24	184.81	0.24	-2.47e-04	-2.31	0.0	-19.16	37.64	0.06	-0.10	0.21	169.68
		169.68	0.21	-2.14e-05	0.0	41.5	-18.50	35.32	0.06	-0.10	0.24	184.81
57	26	184.78	0.29	-2.47e-04	-2.31	0.0	-19.18	37.63	0.04	-0.10	0.27	169.66
		169.66	0.27	-2.64e-05	0.0	41.5	-18.53	35.31	0.04	-0.10	0.29	184.78
57	27	175.61	0.23	-2.35e-04	-2.31	0.0	-18.47	36.07	0.06	-0.09	0.21	161.13
		161.13	0.21	-2.12e-05	0.0	41.5	-17.81	33.75	0.06	-0.09	0.23	175.61
57	28	175.59	0.29	-2.35e-04	-2.31	0.0	-18.49	36.06	0.04	-0.10	0.27	161.11
		161.11	0.27	-2.62e-05	0.0	41.5	-17.84	33.75	0.04	-0.10	0.29	175.59
57	29	167.79	-92.76	-2.22e-04	-2.31	0.0	-3.42	33.12	-27.50	38.58	-92.76	154.51
		154.51	-104.05	3.93e-03	0.0	41.5	-2.77	30.80	-27.50	38.58	-104.05	167.79
57	36	183.38	104.62	-2.47e-04	-2.31	0.0	-33.56	39.01	27.58	-38.78	93.30	167.72
		167.72	93.30	-3.98e-03	0.0	41.5	-32.91	36.69	27.58	-38.78	104.62	183.38
57	69	175.08	-31.01	-2.32e-04	-2.31	0.0	18.35	32.43	-7.74	9.25	-31.01	162.06
		162.06	-34.15	9.31e-04	0.0	41.5	19.01	30.11	-7.74	9.25	-34.15	175.08
57	76	176.10	34.73	-2.38e-04	-2.31	0.0	-55.34	39.69	7.82	-9.46	31.55	160.17
		160.17	31.55	-9.84e-04	0.0	41.5	-54.68	37.38	7.82	-9.46	34.73	176.10
57	93	179.05	-48.11	-2.39e-04	-2.31	0.0	-11.45	36.56	-14.33	20.01	-48.11	164.37
		164.37	-54.00	2.02e-03	0.0	41.5	-10.79	34.24	-14.33	20.01	-54.00	179.05
57	96	172.12	54.57	-2.31e-04	-2.31	0.0	-25.54	35.56	14.42	-20.21	48.65	157.86
		157.86	48.65	-2.07e-03	0.0	41.5	-24.88	33.25	14.42	-20.21	54.57	172.12
57	113	182.80	-16.07	-2.44e-04	-2.31	0.0	-0.22	36.20	-4.00	4.70	-16.07	168.25
		168.25	-17.70	4.62e-04	0.0	41.5	0.43	33.88	-4.00	4.70	-17.70	182.80
57	116	168.38	18.27	-2.26e-04	-2.31	0.0	-36.76	35.93	4.08	-4.90	16.61	153.97
		153.97	16.61	-5.14e-04	0.0	41.5	-36.11	33.61	4.08	-4.90	18.27	168.38
57	142	228.50	-26.13	-3.07e-04	-2.31	0.0	-12.17	49.29	-7.81	11.15	-26.13	208.62
		208.62	-29.37	1.11e-03	0.0	41.5	-11.52	46.98	-7.81	11.15	-29.37	228.50
57	147	122.67	29.94	-1.62e-04	-2.31	0.0	-24.81	22.83	7.89	-11.35	26.67	113.61
		113.61	26.67	-1.16e-03	0.0	41.5	-24.16	20.51	7.89	-11.35	29.94	122.67
57	157	175.61	0.23	-2.35e-04	-2.31	0.0	-18.47	36.07	0.06	-0.09	0.21	161.13
		161.13	0.21	-2.12e-05	0.0	41.5	-17.81	33.75	0.06	-0.09	0.23	175.61
57	158	175.59	0.29	-2.35e-04	-2.31	0.0	-18.49	36.06	0.04	-0.10	0.27	161.11
		161.11	0.27	-2.62e-05	0.0	41.5	-17.84	33.75	0.04	-0.10	0.29	175.59
61	5	228.14	0.32	4.71e-05	-1.32	0.0	-14.34	-25.38	-0.06	0.09	0.32	228.14
		221.81	0.31	9.98e-06	0.0	24.3	-14.71	-26.71	-0.06	0.09	0.31	221.81
61	7	228.06	0.38	4.71e-05	-1.32	0.0	-14.40	-25.37	-0.01	0.11	0.38	228.06
		221.73	0.38	1.65e-05	0.0	24.3	-14.78	-26.69	-0.01	0.11	0.38	221.73
61	9	382.90	0.50	7.88e-05	-1.72	0.0	-26.17	-44.08	-0.10	0.14	0.50	382.90
		371.98	0.48	1.41e-05	0.0	24.3	-26.66	-45.80	-0.10	0.14	0.48	371.98
61	11	382.84	0.55	7.88e-05	-1.72	0.0	-26.22	-44.07	-0.08	0.15	0.55	382.84
		371.93	0.53	1.86e-05	0.0	24.3	-26.70	-45.79	-0.08	0.15	0.53	371.93
61	15	226.80	0.33	4.68e-05	-1.32	0.0	-15.37	-25.09	-0.06	0.09	0.33	226.80
		220.55	0.32	1.02e-05	0.0	24.3	-15.74	-26.42	-0.06	0.09	0.32	220.55

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
61	17	226.75	0.37	4.68e-05	-1.32	0.0	-15.41	-25.08	-0.03	0.11	0.37	226.75
		220.50	0.37	1.46e-05	0.0	24.3	-15.78	-26.40	-0.03	0.11	0.37	220.50
61	19	286.40	0.37	5.90e-05	-1.32	0.0	-18.81	-32.93	-0.08	0.11	0.37	286.40
		278.24	0.36	1.06e-05	0.0	24.3	-19.19	-34.25	-0.08	0.11	0.36	278.24
61	21	286.36	0.40	5.90e-05	-1.32	0.0	-18.84	-32.92	-0.06	0.11	0.40	286.36
		278.20	0.39	1.36e-05	0.0	24.3	-19.22	-34.24	-0.06	0.11	0.39	278.20
61	22	226.80	0.33	4.68e-05	-1.32	0.0	-15.37	-25.09	-0.06	0.09	0.33	226.80
		220.55	0.32	1.02e-05	0.0	24.3	-15.74	-26.42	-0.06	0.09	0.32	220.55
61	23	226.77	0.36	4.68e-05	-1.32	0.0	-15.40	-25.09	-0.04	0.10	0.36	226.77
		220.51	0.35	1.33e-05	0.0	24.3	-15.77	-26.41	-0.04	0.10	0.35	220.51
61	24	238.72	0.34	4.92e-05	-1.32	0.0	-16.06	-26.66	-0.06	0.10	0.34	238.72
		232.09	0.33	1.03e-05	0.0	24.3	-16.43	-27.98	-0.06	0.10	0.33	232.09
61	26	238.69	0.37	4.92e-05	-1.32	0.0	-16.08	-26.65	-0.04	0.10	0.37	238.69
		232.05	0.35	1.29e-05	0.0	24.3	-16.45	-27.98	-0.04	0.10	0.35	232.05
61	27	226.80	0.33	4.68e-05	-1.32	0.0	-15.37	-25.09	-0.06	0.09	0.33	226.80
		220.55	0.32	1.02e-05	0.0	24.3	-15.74	-26.42	-0.06	0.09	0.32	220.55
61	28	226.77	0.36	4.68e-05	-1.32	0.0	-15.39	-25.09	-0.04	0.10	0.36	226.77
		220.52	0.35	1.28e-05	0.0	24.3	-15.77	-26.41	-0.04	0.10	0.35	220.52
61	45	208.39	-133.23	4.23e-05	-1.32	0.0	-17.04	-24.48	15.29	-40.31	-139.27	208.39
		202.27	-139.27	-1.54e-03	0.0	24.3	-17.41	-25.81	15.29	-40.31	-133.23	202.27
61	52	245.15	139.98	5.13e-05	-1.32	0.0	-13.75	-25.69	-15.37	40.51	139.98	245.15
		238.76	133.92	1.56e-03	0.0	24.3	-14.12	-27.01	-15.37	40.51	133.92	238.76
61	63	217.82	-35.01	4.69e-05	-1.32	0.0	9.16	-19.31	3.42	-9.25	-35.01	217.82
		212.95	-42.15	-2.70e-04	0.0	24.3	8.79	-20.63	3.42	-9.25	-42.15	212.95
61	66	235.73	42.84	4.66e-05	-1.32	0.0	-39.94	-30.87	-3.50	9.46	35.73	235.73
		228.08	35.73	2.96e-04	0.0	24.3	-40.32	-32.19	-3.50	9.46	42.84	228.08
61	101	227.59	-69.18	4.66e-05	-1.32	0.0	-17.06	-26.13	7.97	-20.95	-72.38	227.59
		221.08	-72.38	-7.91e-04	0.0	24.3	-17.44	-27.45	7.97	-20.95	-69.18	221.08
61	104	225.96	73.10	4.69e-05	-1.32	0.0	-13.72	-24.05	-8.05	21.15	73.10	225.96
		219.95	69.88	8.16e-04	0.0	24.3	-14.09	-25.37	-8.05	21.15	69.88	219.95
61	110	232.42	-17.93	4.90e-05	-1.32	0.0	-3.55	-23.44	1.72	-4.70	-17.93	232.42
		226.57	-21.83	-1.29e-04	0.0	24.3	-3.92	-24.77	1.72	-4.70	-21.83	226.57
61	111	221.12	22.53	4.45e-05	-1.32	0.0	-27.24	-26.73	-1.80	4.90	18.65	221.12
		214.46	18.65	1.55e-04	0.0	24.3	-27.61	-28.05	-1.80	4.90	22.53	214.46
61	128	297.21	-37.52	6.21e-05	-1.32	0.0	-13.32	-32.98	4.46	-11.15	-37.52	297.21
		289.09	-38.82	-4.02e-04	0.0	24.3	-13.69	-34.31	4.46	-11.15	-38.82	289.09
61	129	156.34	39.52	3.15e-05	-1.32	0.0	-17.46	-17.19	-4.55	11.35	38.23	156.34
		151.95	38.23	4.28e-04	0.0	24.3	-17.84	-18.51	-4.55	11.35	39.52	151.95
61	157	226.80	0.33	4.68e-05	-1.32	0.0	-15.37	-25.09	-0.06	0.09	0.33	226.80
		220.55	0.32	1.02e-05	0.0	24.3	-15.74	-26.42	-0.06	0.09	0.32	220.55
61	158	226.77	0.36	4.68e-05	-1.32	0.0	-15.39	-25.09	-0.04	0.10	0.36	226.77
		220.52	0.35	1.28e-05	0.0	24.3	-15.77	-26.41	-0.04	0.10	0.35	220.52
62	5	161.07	0.20	8.63e-04	-6.02	0.0	-22.35	-53.73	-0.07	0.09	0.20	161.07
		99.84	0.13	5.58e-05	0.0	107.9	-24.05	-59.75	-0.07	0.09	0.13	99.84
62	7	161.02	0.52	8.63e-04	-6.02	0.0	-22.41	-53.71	0.15	0.11	0.35	161.02
		99.82	0.35	9.05e-05	0.0	107.9	-24.11	-59.73	0.15	0.11	0.52	99.82
62	9	271.37	0.28	1.45e-03	-7.83	0.0	-39.78	-92.25	-0.19	0.14	0.28	271.37
		167.60	0.07	7.91e-05	0.0	107.9	-41.99	-100.08	-0.19	0.14	0.07	167.60
62	11	271.34	0.38	1.45e-03	-7.83	0.0	-39.82	-92.24	-0.03	0.15	0.38	271.34
		167.59	0.35	1.03e-04	0.0	107.9	-42.03	-100.07	-0.03	0.15	0.35	167.59
62	15	160.35	0.21	8.58e-04	-6.02	0.0	-23.37	-53.44	-0.11	0.09	0.21	160.35
		99.43	0.09	5.72e-05	0.0	107.9	-25.07	-59.46	-0.11	0.09	0.09	99.43
62	17	160.32	0.35	8.58e-04	-6.02	0.0	-23.41	-53.43	0.04	0.11	0.31	160.32
		99.42	0.31	8.04e-05	0.0	107.9	-25.12	-59.45	0.04	0.11	0.35	99.42
62	19	202.77	0.21	1.08e-03	-6.02	0.0	-28.95	-68.82	-0.11	0.11	0.21	202.77
		125.26	0.09	5.94e-05	0.0	107.9	-30.65	-74.84	-0.11	0.11	0.09	125.26
62	21	202.75	0.28	1.08e-03	-6.02	0.0	-28.98	-68.81	-9.34e-03	0.11	0.28	202.75
		125.25	0.27	7.56e-05	0.0	107.9	-30.68	-74.83	-9.34e-03	0.11	0.27	125.25
62	22	160.35	0.21	8.58e-04	-6.02	0.0	-23.37	-53.44	-0.11	0.09	0.21	160.35
		99.43	0.09	5.72e-05	0.0	107.9	-25.07	-59.46	-0.11	0.09	0.09	99.43
62	23	160.33	0.28	8.58e-04	-6.02	0.0	-23.40	-53.43	-8.33e-03	0.10	0.28	160.33
		99.42	0.27	7.34e-05	0.0	107.9	-25.10	-59.45	-8.33e-03	0.10	0.27	99.42
62	24	168.83	0.21	9.03e-04	-6.02	0.0	-24.49	-56.52	-0.11	0.10	0.21	168.83
		104.60	0.09	5.77e-05	0.0	107.9	-26.19	-62.54	-0.11	0.10	0.09	104.60
62	26	168.81	0.27	9.03e-04	-6.02	0.0	-24.51	-56.51	-0.02	0.10	0.27	168.81
		104.59	0.24	7.16e-05	0.0	107.9	-26.21	-62.53	-0.02	0.10	0.24	104.59
62	27	160.35	0.21	8.58e-04	-6.02	0.0	-23.37	-53.44	-0.11	0.09	0.21	160.35
		99.43	0.09	5.72e-05	0.0	107.9	-25.07	-59.46	-0.11	0.09	0.09	99.43
62	28	160.33	0.27	8.58e-04	-6.02	0.0	-23.40	-53.43	-0.02	0.10	0.27	160.33
		99.42	0.24	7.11e-05	0.0	107.9	-25.10	-59.46	-0.02	0.10	0.24	99.42
62	47	153.74	-54.95	8.22e-04	-6.02	0.0	-4.48	-50.59	35.53	-38.58	-92.76	153.74
		95.88	-92.76	-0.01	0.0	107.9	-6.18	-56.61	35.53	-38.58	-54.95	95.88

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
62	50	166.92	93.30	8.95e-04	-6.02	0.0	-42.32	-56.28	-35.58	38.78	93.30	166.92
		102.97	55.44	0.01	0.0	107.9	-44.02	-62.30	-35.58	38.78	55.44	102.97
62	63	161.33	-20.48	8.54e-04	-6.02	0.0	26.37	-52.48	9.28	-9.25	-31.01	161.33
		101.42	-31.01	-2.63e-03	0.0	107.9	24.67	-58.50	9.28	-9.25	-20.48	101.42
62	66	159.33	31.55	8.62e-04	-6.02	0.0	-73.17	-54.39	-9.33	9.46	31.55	159.33
		97.43	20.96	2.77e-03	0.0	107.9	-74.87	-60.41	-9.33	9.46	20.96	97.43
62	102	163.61	-28.40	8.77e-04	-6.02	0.0	-14.34	-54.50	18.59	-20.01	-48.11	163.61
		101.55	-48.11	-5.60e-03	0.0	107.9	-16.04	-60.52	18.59	-20.01	-28.40	101.55
62	103	157.05	48.65	8.40e-04	-6.02	0.0	-32.45	-52.37	-18.64	20.21	48.65	157.05
		97.30	28.89	5.75e-03	0.0	107.9	-34.15	-58.39	-18.64	20.21	28.89	97.30
62	110	167.51	-10.60	8.93e-04	-6.02	0.0	1.58	-55.47	4.85	-4.70	-16.07	167.51
		104.41	-16.07	-1.31e-03	0.0	107.9	-0.13	-61.49	4.85	-4.70	-10.60	104.41
62	111	153.15	16.61	8.23e-04	-6.02	0.0	-48.37	-51.40	-4.90	4.90	16.61	153.15
		94.44	11.09	1.45e-03	0.0	107.9	-50.07	-57.42	-4.90	4.90	11.09	94.44
62	128	207.95	-15.81	1.12e-03	-6.02	0.0	-13.05	-71.12	9.95	-11.15	-26.13	207.95
		128.06	-26.13	-3.05e-03	0.0	107.9	-14.75	-77.14	9.95	-11.15	-15.81	128.06
62	129	112.71	26.66	5.95e-04	-6.02	0.0	-33.75	-35.75	-9.99	11.35	26.66	112.71
		70.79	16.30	3.19e-03	0.0	107.9	-35.45	-41.77	-9.99	11.35	16.30	70.79
62	157	160.35	0.21	8.58e-04	-6.02	0.0	-23.37	-53.44	-0.11	0.09	0.21	160.35
		99.43	0.09	5.72e-05	0.0	107.9	-25.07	-59.46	-0.11	0.09	0.09	99.43
62	158	160.33	0.27	8.58e-04	-6.02	0.0	-23.40	-53.43	-0.02	0.10	0.27	160.33
		99.42	0.24	7.11e-05	0.0	107.9	-25.10	-59.46	-0.02	0.10	0.24	99.42
63	5	31.67	0.05	4.80e-04	-1.62	0.0	-31.15	-84.90	-0.13	0.09	0.05	31.67
		0.0	0.0	2.01e-05	0.0	36.9	-31.61	-86.52	-0.13	0.09	0.0	0.0
63	7	31.66	0.68	4.80e-04	-1.62	0.0	-31.21	-84.88	-1.85	0.11	0.68	31.66
		0.0	0.0	3.65e-05	0.0	36.9	-31.67	-86.50	-1.85	0.11	0.0	0.0
63	9	53.96	0.0	8.07e-04	-2.10	0.0	-54.68	-145.00	0.36	0.14	-0.13	53.96
		0.0	-0.13	2.72e-05	0.0	36.9	-55.27	-147.10	0.36	0.14	0.0	0.0
63	11	53.96	0.31	8.07e-04	-2.10	0.0	-54.72	-144.99	-0.84	0.15	0.31	53.96
		0.0	0.0	3.87e-05	0.0	36.9	-55.31	-147.09	-0.84	0.15	0.0	0.0
63	15	31.56	0.0	4.78e-04	-1.62	0.0	-32.18	-84.61	0.09	0.09	-0.03	31.56
		0.0	-0.03	2.01e-05	0.0	36.9	-32.63	-86.23	0.09	0.09	0.0	0.0
63	17	31.55	0.39	4.78e-04	-1.62	0.0	-32.22	-84.60	-1.05	0.11	0.39	31.55
		0.0	0.0	3.10e-05	0.0	36.9	-32.68	-86.21	-1.05	0.11	0.0	0.0
63	19	40.25	0.0	6.03e-04	-1.62	0.0	-40.06	-108.14	0.10	0.11	-0.04	40.25
		0.0	-0.04	2.08e-05	0.0	36.9	-40.51	-109.76	0.10	0.11	0.0	0.0
63	21	40.25	0.26	6.03e-04	-1.62	0.0	-40.09	-108.13	-0.70	0.11	0.26	40.25
		0.0	0.0	2.85e-05	0.0	36.9	-40.54	-109.75	-0.70	0.11	0.0	0.0
63	22	31.56	0.0	4.78e-04	-1.62	0.0	-32.18	-84.61	0.09	0.09	-0.03	31.56
		0.0	-0.03	2.01e-05	0.0	36.9	-32.63	-86.23	0.09	0.09	0.0	0.0
63	23	31.56	0.26	4.78e-04	-1.62	0.0	-32.21	-84.60	-0.71	0.10	0.26	31.56
		0.0	0.0	2.77e-05	0.0	36.9	-32.66	-86.22	-0.71	0.10	0.0	0.0
63	24	33.30	0.0	5.03e-04	-1.62	0.0	-33.75	-89.31	0.09	0.10	-0.03	33.30
		0.0	-0.03	2.02e-05	0.0	36.9	-34.21	-90.93	0.09	0.10	0.0	0.0
63	26	33.29	0.22	5.03e-04	-1.62	0.0	-33.78	-89.31	-0.59	0.10	0.22	33.29
		0.0	0.0	2.68e-05	0.0	36.9	-34.23	-90.93	-0.59	0.10	0.0	0.0
63	27	31.56	0.0	4.78e-04	-1.62	0.0	-32.18	-84.61	0.09	0.09	-0.03	31.56
		0.0	-0.03	2.01e-05	0.0	36.9	-32.63	-86.23	0.09	0.09	0.0	0.0
63	28	31.56	0.22	4.78e-04	-1.62	0.0	-32.20	-84.60	-0.59	0.10	0.22	31.56
		0.0	0.0	2.67e-05	0.0	36.9	-32.66	-86.22	-0.59	0.10	0.0	0.0
63	47	30.86	0.0	4.60e-04	-1.62	0.0	-7.00	-82.72	43.89	-38.58	-16.22	30.86
		0.0	-16.22	-3.29e-03	0.0	36.9	-7.45	-84.33	43.89	-38.58	0.0	0.0
63	50	32.25	16.66	4.96e-04	-1.62	0.0	-57.41	-86.49	-45.08	38.78	16.66	32.25
		0.0	0.0	3.34e-03	0.0	36.9	-57.86	-88.10	-45.08	38.78	0.0	0.0
63	63	33.01	0.0	4.82e-04	-1.62	0.0	38.07	-88.53	24.30	-9.25	-8.98	33.01
		0.0	-8.98	-6.74e-04	0.0	36.9	37.61	-90.15	24.30	-9.25	0.0	0.0
63	66	30.10	9.42	4.73e-04	-1.62	0.0	-102.47	-80.67	-25.49	9.46	9.42	30.10
		0.0	0.0	7.27e-04	0.0	36.9	-102.93	-82.29	-25.49	9.46	0.0	0.0
63	77	27.24	0.0	4.17e-04	-1.62	0.0	-77.67	-72.91	2.87	-14.20	-1.06	27.24
		0.0	-1.06	-9.36e-04	0.0	36.9	-78.13	-74.53	2.87	-14.20	0.0	0.0
63	94	32.27	0.0	4.88e-04	-1.62	0.0	-19.88	-86.53	22.60	-20.64	-8.35	32.27
		0.0	-8.35	-1.36e-03	0.0	36.9	-20.34	-88.15	22.60	-20.64	0.0	0.0
63	95	30.84	8.79	4.68e-04	-1.62	0.0	-44.52	-82.67	-23.79	20.84	8.79	30.84
		0.0	0.0	1.42e-03	0.0	36.9	-44.98	-84.29	-23.79	20.84	0.0	0.0
63	110	33.37	0.0	4.99e-04	-1.62	0.0	3.27	-89.52	12.54	-4.70	-4.63	33.37
		0.0	-4.63	-3.16e-04	0.0	36.9	2.82	-91.13	12.54	-4.70	0.0	0.0
63	111	29.74	5.07	4.57e-04	-1.62	0.0	-67.68	-79.69	-13.73	4.90	5.07	29.74
		0.0	0.0	3.69e-04	0.0	36.9	-68.13	-81.30	-13.73	4.90	0.0	0.0
63	117	30.33	0.0	4.65e-04	-1.62	0.0	-57.74	-81.29	0.96	-7.38	-0.35	30.33
		0.0	-0.35	-4.58e-04	0.0	36.9	-58.20	-82.90	0.96	-7.38	0.0	0.0
63	128	39.55	0.0	6.12e-04	-1.62	0.0	-16.32	-106.24	14.35	-11.15	-5.30	39.55
		0.0	-5.30	-7.84e-04	0.0	36.9	-16.77	-107.86	14.35	-11.15	0.0	0.0

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
63	157	31.56	0.0	4.78e-04	-1.62	0.0	-32.18	-84.61	0.09	0.09	-0.03	31.56
		0.0	-0.03	2.01e-05	0.0	36.9	-32.63	-86.23	0.09	0.09	0.0	0.0
63	158	31.56	0.22	4.78e-04	-1.62	0.0	-32.20	-84.60	-0.59	0.10	0.22	31.56
		0.0	0.0	2.67e-05	0.0	36.9	-32.66	-86.22	-0.59	0.10	0.0	0.0
64	4	84.13	1.85	-1.21e-03	-2.10	0.0	-79.04	228.76	5.00	-0.11	0.0	0.0
		0.0	0.0	-4.87e-05	0.0	36.9	-78.45	226.66	5.00	-0.11	1.85	84.13
64	5	54.37	0.89	-7.85e-04	-1.62	0.0	-51.24	147.98	2.40	-0.06	0.0	0.0
		0.0	0.0	-2.38e-05	0.0	36.9	-50.78	146.36	2.40	-0.06	0.89	54.37
64	9	97.57	1.23	-1.39e-03	-2.10	0.0	-91.48	265.14	3.34	-0.09	0.0	0.0
		0.0	0.0	-3.34e-05	0.0	36.9	-90.89	263.03	3.34	-0.09	1.23	97.57
64	11	97.57	1.67	-1.39e-03	-2.10	0.0	-91.49	265.14	4.52	-0.11	0.0	0.0
		0.0	0.0	-4.45e-05	0.0	36.9	-90.89	263.03	4.52	-0.11	1.67	97.57
64	15	54.38	0.91	-7.85e-04	-1.62	0.0	-51.23	147.98	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.43e-05	0.0	36.9	-50.77	146.37	2.47	-0.06	0.91	54.38
64	18	63.34	1.33	-9.09e-04	-1.62	0.0	-59.53	172.24	3.61	-0.08	0.0	0.0
		0.0	0.0	-3.53e-05	0.0	36.9	-59.07	170.62	3.61	-0.08	1.33	63.34
64	19	72.30	0.93	-1.03e-03	-1.62	0.0	-67.83	196.49	2.51	-0.07	0.0	0.0
		0.0	0.0	-2.51e-05	0.0	36.9	-67.37	194.87	2.51	-0.07	0.93	72.30
64	21	72.30	1.22	-1.03e-03	-1.62	0.0	-67.83	196.49	3.29	-0.08	0.0	0.0
		0.0	0.0	-3.26e-05	0.0	36.9	-67.37	194.87	3.29	-0.08	1.22	72.30
64	22	54.38	0.91	-7.85e-04	-1.62	0.0	-51.23	147.98	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.43e-05	0.0	36.9	-50.77	146.37	2.47	-0.06	0.91	54.38
64	23	54.38	1.20	-7.85e-04	-1.62	0.0	-51.23	147.98	3.26	-0.07	0.0	0.0
		0.0	0.0	-3.18e-05	0.0	36.9	-50.78	146.37	3.26	-0.07	1.20	54.38
64	24	57.96	0.92	-8.35e-04	-1.62	0.0	-54.55	157.68	2.48	-0.06	0.0	0.0
		0.0	0.0	-2.45e-05	0.0	36.9	-54.09	156.07	2.48	-0.06	0.92	57.96
64	26	57.96	1.16	-8.35e-04	-1.62	0.0	-54.55	157.68	3.15	-0.07	0.0	0.0
		0.0	0.0	-3.09e-05	0.0	36.9	-54.09	156.07	3.15	-0.07	1.16	57.96
64	27	54.38	0.91	-7.85e-04	-1.62	0.0	-51.23	147.98	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.43e-05	0.0	36.9	-50.77	146.37	2.47	-0.06	0.91	54.38
64	28	54.38	1.16	-7.85e-04	-1.62	0.0	-51.23	147.98	3.14	-0.07	0.0	0.0
		0.0	0.0	-3.07e-05	0.0	36.9	-50.78	146.37	3.14	-0.07	1.16	54.38
64	29	53.84	0.0	-7.65e-04	-1.62	0.0	-25.94	146.54	-32.59	38.17	0.0	0.0
		0.0	-12.04	3.26e-03	0.0	36.9	-25.49	144.92	-32.59	38.17	-12.04	53.84
64	36	54.91	14.36	-8.04e-04	-1.62	0.0	-76.52	149.43	38.88	-38.31	0.0	0.0
		0.0	0.0	-3.32e-03	0.0	36.9	-76.06	147.81	38.88	-38.31	14.36	54.91
64	62	60.58	0.0	-8.44e-04	-1.62	0.0	24.51	164.76	-13.90	8.87	0.0	0.0
		0.0	-5.13	8.09e-04	0.0	36.9	24.97	163.15	-13.90	8.87	-5.13	60.58
64	69	56.86	0.0	-7.86e-04	-1.62	0.0	28.23	154.71	-14.11	9.25	0.0	0.0
		0.0	-5.21	6.49e-04	0.0	36.9	28.69	153.09	-14.11	9.25	-5.21	56.86
64	76	51.89	7.54	-7.83e-04	-1.62	0.0	-130.69	141.26	20.40	-9.39	0.0	0.0
		0.0	0.0	-7.11e-04	0.0	36.9	-130.24	139.64	20.40	-9.39	7.54	51.89
64	93	55.06	0.0	-7.90e-04	-1.62	0.0	-39.12	149.83	-15.20	19.81	0.0	0.0
		0.0	-5.62	1.63e-03	0.0	36.9	-38.66	148.22	-15.20	19.81	-5.62	55.06
64	96	53.69	7.94	-7.80e-04	-1.62	0.0	-63.35	146.13	21.49	-19.95	0.0	0.0
		0.0	0.0	-1.69e-03	0.0	36.9	-62.89	144.52	21.49	-19.95	7.94	53.69
64	109	56.62	0.0	-8.00e-04	-1.62	0.0	-11.12	154.06	-6.07	4.54	0.0	0.0
		0.0	-2.24	3.87e-04	0.0	36.9	-10.66	152.44	-6.07	4.54	-2.24	56.62
64	113	56.62	0.0	-8.00e-04	-1.62	0.0	-11.12	154.06	-5.77	4.72	0.0	0.0
		0.0	-2.13	3.01e-04	0.0	36.9	-10.66	152.44	-5.77	4.72	-2.13	56.62
64	116	52.13	4.46	-7.69e-04	-1.62	0.0	-91.35	141.91	12.06	-4.85	0.0	0.0
		0.0	0.0	-3.62e-04	0.0	36.9	-90.89	140.29	12.06	-4.85	4.46	52.13
64	142	61.87	0.0	-8.90e-04	-1.62	0.0	-34.10	168.28	-7.09	11.07	0.0	0.0
		0.0	-2.62	7.68e-04	0.0	36.9	-33.65	166.66	-7.09	11.07	-2.62	61.87
64	157	54.38	0.91	-7.85e-04	-1.62	0.0	-51.23	147.98	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.43e-05	0.0	36.9	-50.77	146.37	2.47	-0.06	0.91	54.38
64	158	54.38	1.16	-7.85e-04	-1.62	0.0	-51.23	147.98	3.14	-0.07	0.0	0.0
		0.0	0.0	-3.07e-05	0.0	36.9	-50.78	146.37	3.14	-0.07	1.16	54.38
65	5	378.80	0.21	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.06	0.21	378.24
		377.07	0.21	5.07e-05	0.0	125.1	-10.67	-4.34	0.0	0.06	0.21	377.07
65	7	378.79	0.29	1.82e-04	-6.81	0.0	-8.75	2.47	-1.20e-06	0.08	0.29	378.23
		377.06	0.29	8.31e-05	0.0	125.1	-10.67	-4.34	-1.20e-06	0.08	0.29	377.06
65	9	671.13	0.32	3.23e-04	-8.85	0.0	-15.37	4.34	0.0	0.09	0.32	669.80
		669.70	0.32	7.15e-05	0.0	125.1	-17.87	-4.51	0.0	0.09	0.32	669.70
65	11	671.13	0.38	3.23e-04	-8.85	0.0	-15.37	4.34	0.0	0.11	0.38	669.80
		669.69	0.38	9.42e-05	0.0	125.1	-17.87	-4.51	0.0	0.11	0.38	669.69
65	15	378.79	0.21	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.06	0.21	378.23
		377.06	0.21	5.23e-05	0.0	125.1	-10.66	-4.34	0.0	0.06	0.21	377.06
65	17	378.79	0.26	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.07	0.26	378.23
		377.06	0.26	7.39e-05	0.0	125.1	-10.66	-4.34	0.0	0.07	0.26	377.06
65	19	497.92	0.24	2.39e-04	-6.81	0.0	-11.42	3.22	0.0	0.07	0.24	496.97
		496.74	0.24	5.36e-05	0.0	125.1	-13.34	-3.58	0.0	0.07	0.24	496.74

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
65	21	497.92	0.28	2.39e-04	-6.81	0.0	-11.42	3.22	0.0	0.08	0.28	496.97
		496.74	0.28	6.88e-05	0.0	125.1	-13.34	-3.58	0.0	0.08	0.28	496.74
65	22	378.79	0.21	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.06	0.21	378.23
		377.06	0.21	5.23e-05	0.0	125.1	-10.66	-4.34	0.0	0.06	0.21	377.06
65	23	378.79	0.25	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.07	0.25	378.23
		377.06	0.25	6.74e-05	0.0	125.1	-10.66	-4.34	0.0	0.07	0.25	377.06
65	24	402.61	0.22	1.94e-04	-6.81	0.0	-9.27	2.62	0.0	0.06	0.22	401.98
		401.00	0.22	5.25e-05	0.0	125.1	-11.19	-4.19	0.0	0.06	0.22	401.00
65	26	402.61	0.25	1.94e-04	-6.81	0.0	-9.27	2.62	0.0	0.07	0.25	401.98
		401.00	0.25	6.55e-05	0.0	125.1	-11.20	-4.19	0.0	0.07	0.25	401.00
65	27	378.79	0.21	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.06	0.21	378.23
		377.06	0.21	5.23e-05	0.0	125.1	-10.66	-4.34	0.0	0.06	0.21	377.06
65	28	378.79	0.24	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.07	0.24	378.23
		377.06	0.24	6.52e-05	0.0	125.1	-10.66	-4.34	0.0	0.07	0.24	377.06
65	45	359.72	-139.74	1.82e-04	-6.81	0.0	-7.12	0.63	-3.54	-39.82	-139.74	359.71
		355.97	-142.79	-5.59e-03	0.0	125.1	-9.04	-6.17	-3.54	-39.82	-142.79	355.97
65	52	398.62	143.27	1.83e-04	-6.81	0.0	-10.35	4.30	3.54	39.95	140.23	396.75
		396.75	140.23	5.72e-03	0.0	125.1	-12.28	-2.51	3.54	39.95	143.27	398.14
65	101	378.51	-72.62	1.86e-04	-6.81	0.0	-9.32	1.05	-1.92	-20.70	-72.62	378.41
		375.47	-74.27	-2.87e-03	0.0	125.1	-11.24	-5.76	-1.92	-20.70	-74.27	375.47
65	104	379.43	74.76	1.78e-04	-6.81	0.0	-8.15	3.88	1.92	20.84	73.10	378.05
		378.05	73.10	3.00e-03	0.0	125.1	-10.07	-2.92	1.92	20.84	74.76	378.65
65	110	382.91	-18.56	1.68e-04	-6.81	0.0	-6.52	7.11	2.25	-4.72	-22.02	378.28
		378.28	-22.02	-2.90e-04	0.0	125.1	-8.44	0.30	2.25	-4.72	-18.56	382.91
65	111	378.17	22.51	1.96e-04	-6.81	0.0	-10.96	-2.17	-2.25	4.85	22.51	378.17
		371.20	19.04	4.20e-04	0.0	125.1	-12.88	-8.98	-2.25	4.85	19.04	371.20
65	127	320.50	-39.06	1.45e-04	-6.81	0.0	1.75	8.17	2.42	-11.23	-42.22	315.44
		315.44	-42.22	-1.40e-03	0.0	125.1	-0.17	1.36	2.42	-11.23	-39.06	320.50
65	128	441.97	-38.57	2.03e-04	-6.81	0.0	-16.59	2.13	2.35	-11.07	-41.66	441.22
		440.54	-41.66	-1.39e-03	0.0	125.1	-18.51	-4.67	2.35	-11.07	-38.57	440.54
65	129	315.63	42.14	1.61e-04	-6.81	0.0	-0.88	2.80	-2.35	11.21	42.14	315.24
		313.58	39.05	1.52e-03	0.0	125.1	-2.81	-4.01	-2.35	11.21	39.05	313.58
65	130	441.01	42.70	2.20e-04	-6.81	0.0	-19.23	-3.23	-2.42	11.36	42.70	441.01
		433.62	39.55	1.53e-03	0.0	125.1	-21.15	-10.04	-2.42	11.36	39.55	433.62
65	157	378.79	0.21	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.06	0.21	378.23
		377.06	0.21	5.23e-05	0.0	125.1	-10.66	-4.34	0.0	0.06	0.21	377.06
65	158	378.79	0.24	1.82e-04	-6.81	0.0	-8.74	2.47	0.0	0.07	0.24	378.23
		377.06	0.24	6.52e-05	0.0	125.1	-10.66	-4.34	0.0	0.07	0.24	377.06
66	5	377.27	0.21	-7.75e-05	-1.32	0.0	-22.97	47.89	0.08	-0.06	0.19	365.80
		365.80	0.19	-1.05e-05	0.0	24.3	-22.60	46.57	0.08	-0.06	0.21	377.27
66	7	377.27	0.29	-7.75e-05	-1.32	0.0	-22.97	47.89	0.07	-0.08	0.27	365.80
		365.80	0.27	-1.71e-05	0.0	24.3	-22.60	46.57	0.07	-0.08	0.29	377.27
66	9	670.09	0.32	-1.37e-04	-1.72	0.0	-41.00	86.40	0.14	-0.09	0.29	649.31
		649.31	0.29	-1.50e-05	0.0	24.3	-40.51	84.68	0.14	-0.09	0.32	670.09
66	11	670.09	0.38	-1.37e-04	-1.72	0.0	-41.00	86.40	0.14	-0.11	0.34	649.31
		649.31	0.34	-1.95e-05	0.0	24.3	-40.51	84.68	0.14	-0.11	0.38	670.09
66	15	377.27	0.21	-7.75e-05	-1.32	0.0	-22.96	47.90	0.09	-0.06	0.19	365.79
		365.79	0.19	-1.09e-05	0.0	24.3	-22.59	46.57	0.09	-0.06	0.21	377.27
66	17	377.27	0.26	-7.75e-05	-1.32	0.0	-22.96	47.90	0.08	-0.07	0.24	365.79
		365.79	0.24	-1.52e-05	0.0	24.3	-22.59	46.57	0.08	-0.07	0.26	377.27
66	19	497.04	0.24	-1.02e-04	-1.32	0.0	-30.40	63.98	0.11	-0.07	0.22	481.65
		481.65	0.22	-1.12e-05	0.0	24.3	-30.03	62.66	0.11	-0.07	0.24	497.04
66	21	497.03	0.28	-1.02e-04	-1.32	0.0	-30.40	63.98	0.10	-0.08	0.25	481.65
		481.65	0.25	-1.43e-05	0.0	24.3	-30.03	62.66	0.10	-0.08	0.28	497.03
66	22	377.27	0.21	-7.75e-05	-1.32	0.0	-22.96	47.90	0.09	-0.06	0.19	365.79
		365.79	0.19	-1.09e-05	0.0	24.3	-22.59	46.57	0.09	-0.06	0.21	377.27
66	23	377.27	0.25	-7.75e-05	-1.32	0.0	-22.96	47.90	0.08	-0.07	0.23	365.79
		365.79	0.23	-1.39e-05	0.0	24.3	-22.59	46.57	0.08	-0.07	0.25	377.27
66	24	401.22	0.22	-8.24e-05	-1.32	0.0	-24.45	51.11	0.09	-0.06	0.20	388.97
		388.97	0.20	-1.09e-05	0.0	24.3	-24.07	49.79	0.09	-0.06	0.22	401.22
66	26	401.22	0.25	-8.24e-05	-1.32	0.0	-24.45	51.11	0.09	-0.07	0.23	388.96
		388.96	0.23	-1.35e-05	0.0	24.3	-24.08	49.79	0.09	-0.07	0.25	401.22
66	27	377.27	0.21	-7.75e-05	-1.32	0.0	-22.96	47.90	0.09	-0.06	0.19	365.79
		365.79	0.19	-1.09e-05	0.0	24.3	-22.59	46.57	0.09	-0.06	0.21	377.27
66	28	377.27	0.24	-7.75e-05	-1.32	0.0	-22.96	47.90	0.08	-0.07	0.22	365.79
		365.79	0.22	-1.35e-05	0.0	24.3	-22.59	46.57	0.08	-0.07	0.24	377.27
66	31	356.20	-135.16	-7.51e-05	-1.32	0.0	-28.75	45.78	-21.92	39.82	-135.16	345.22
		345.22	-142.79	1.53e-03	0.0	24.3	-28.38	44.46	-21.92	39.82	-142.79	356.20
66	34	398.34	143.27	-7.98e-05	-1.32	0.0	-17.17	50.01	22.08	-39.95	135.60	386.36
		386.36	135.60	-1.56e-03	0.0	24.3	-16.80	48.69	22.08	-39.95	143.27	398.34
66	69	370.51	-36.12	-6.94e-05	-1.32	0.0	7.05	42.67	-5.26	9.25	-42.79	360.30
		360.30	-42.79	2.68e-04	0.0	24.3	7.43	41.35	-5.26	9.25	-36.12	370.51

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
66	76	384.02	43.23	-8.55e-05	-1.32	0.0	-52.98	53.12	5.43	-9.39	43.23	371.29
		371.29	36.61	-2.95e-04	0.0	24.3	-52.60	51.80	5.43	-9.39	36.61	384.02
66	94	375.69	-70.25	-7.82e-05	-1.32	0.0	-27.17	48.29	-11.41	20.70	-70.25	364.12
		364.12	-74.27	7.87e-04	0.0	24.3	-26.80	46.97	-11.41	20.70	-74.27	375.69
66	95	378.85	74.76	-7.68e-05	-1.32	0.0	-18.75	47.50	11.57	-20.84	70.69	367.47
		367.47	70.69	-8.14e-04	0.0	24.3	-18.38	46.18	11.57	-20.84	74.76	378.85
66	113	383.09	-18.56	-7.52e-05	-1.32	0.0	-8.66	46.68	-2.65	4.72	-22.22	371.91
		371.91	-22.22	1.27e-04	0.0	24.3	-8.29	45.36	-2.65	4.72	-18.56	383.09
66	116	371.45	22.67	-7.97e-05	-1.32	0.0	-37.26	49.11	2.82	-4.85	22.67	359.68
		359.68	19.04	-1.54e-04	0.0	24.3	-36.89	47.79	2.82	-4.85	19.04	371.45
66	142	440.73	-38.57	-8.86e-05	-1.32	0.0	-22.48	56.78	-6.07	11.07	-39.48	427.14
		427.14	-39.48	4.00e-04	0.0	24.3	-22.11	55.46	-6.07	11.07	-38.57	440.73
66	147	313.80	39.93	-6.64e-05	-1.32	0.0	-23.44	39.01	6.23	-11.21	39.93	304.44
		304.44	39.05	-4.27e-04	0.0	24.3	-23.07	37.69	6.23	-11.21	39.05	313.80
66	157	377.27	0.21	-7.75e-05	-1.32	0.0	-22.96	47.90	0.09	-0.06	0.19	365.79
		365.79	0.19	-1.09e-05	0.0	24.3	-22.59	46.57	0.09	-0.06	0.21	377.27
66	158	377.27	0.24	-7.75e-05	-1.32	0.0	-22.96	47.90	0.08	-0.07	0.22	365.79
		365.79	0.22	-1.35e-05	0.0	24.3	-22.59	46.57	0.08	-0.07	0.24	377.27
67	4	562.42	0.35	1.35e-03	-9.54	0.0	-35.42	-74.33	-0.12	0.11	0.35	562.42
		444.26	0.17	1.38e-04	0.0	149.4	-38.12	-83.87	-0.12	0.11	0.17	444.26
67	5	365.80	0.19	8.81e-04	-7.34	0.0	-22.97	-47.89	-0.08	0.06	0.19	365.80
		288.78	0.07	6.86e-05	0.0	149.4	-25.04	-55.23	-0.08	0.06	0.07	288.78
67	7	365.80	0.27	8.81e-04	-7.34	0.0	-22.97	-47.89	-0.07	0.08	0.27	365.80
		288.78	0.16	1.11e-04	0.0	149.4	-25.04	-55.23	-0.07	0.08	0.16	288.78
67	9	649.31	0.29	1.56e-03	-9.54	0.0	-41.00	-86.40	-0.14	0.09	0.29	649.31
		513.13	0.07	9.75e-05	0.0	149.4	-43.69	-95.94	-0.14	0.09	0.07	513.13
67	11	649.31	0.34	1.56e-03	-9.54	0.0	-41.00	-86.40	-0.14	0.11	0.34	649.31
		513.13	0.14	1.27e-04	0.0	149.4	-43.69	-95.94	-0.14	0.11	0.14	513.13
67	15	365.79	0.19	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.09	0.06	0.19	365.79
		288.77	0.06	7.04e-05	0.0	149.4	-25.03	-55.23	-0.09	0.06	0.06	288.77
67	17	365.79	0.24	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.08	0.07	0.24	365.79
		288.77	0.12	9.86e-05	0.0	149.4	-25.04	-55.23	-0.08	0.07	0.12	288.77
67	18	423.72	0.26	1.02e-03	-7.34	0.0	-26.68	-55.94	-0.09	0.08	0.26	423.72
		334.68	0.12	9.99e-05	0.0	149.4	-28.75	-63.28	-0.09	0.08	0.12	334.68
67	19	481.65	0.22	1.16e-03	-7.34	0.0	-30.40	-63.98	-0.11	0.07	0.22	481.65
		380.60	0.06	7.32e-05	0.0	149.4	-32.47	-71.32	-0.11	0.07	0.06	380.60
67	21	481.65	0.25	1.16e-03	-7.34	0.0	-30.40	-63.98	-0.10	0.08	0.25	481.65
		380.60	0.11	9.29e-05	0.0	149.4	-32.47	-71.32	-0.10	0.08	0.11	380.60
67	22	365.79	0.19	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.09	0.06	0.19	365.79
		288.77	0.06	7.04e-05	0.0	149.4	-25.03	-55.23	-0.09	0.06	0.06	288.77
67	23	365.79	0.23	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.08	0.07	0.23	365.79
		288.77	0.10	9.01e-05	0.0	149.4	-25.03	-55.23	-0.08	0.07	0.10	288.77
67	24	388.97	0.20	9.36e-04	-7.34	0.0	-24.45	-51.11	-0.09	0.06	0.20	388.97
		307.13	0.06	7.10e-05	0.0	149.4	-26.52	-58.45	-0.09	0.06	0.06	307.13
67	26	388.96	0.23	9.36e-04	-7.34	0.0	-24.45	-51.11	-0.09	0.07	0.23	388.96
		307.13	0.10	8.79e-05	0.0	149.4	-26.52	-58.45	-0.09	0.07	0.10	307.13
67	27	365.79	0.19	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.09	0.06	0.19	365.79
		288.77	0.06	7.04e-05	0.0	149.4	-25.03	-55.23	-0.09	0.06	0.06	288.77
67	28	365.79	0.22	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.08	0.07	0.22	365.79
		288.77	0.10	8.73e-05	0.0	149.4	-25.03	-55.23	-0.08	0.07	0.10	288.77
67	47	352.27	-103.98	8.36e-04	-7.34	0.0	-11.61	-44.34	23.07	-38.17	-137.76	352.27
		280.45	-137.76	-0.01	0.0	149.4	-13.68	-51.68	23.07	-38.17	-103.98	280.45
67	50	379.32	138.21	9.25e-04	-7.34	0.0	-34.32	-51.45	-23.24	38.31	138.21	379.32
		297.09	104.17	0.01	0.0	149.4	-36.39	-58.79	-23.24	38.31	104.17	297.09
67	63	360.30	-34.48	8.27e-04	-7.34	0.0	9.04	-43.05	5.89	-9.25	-42.79	360.30
		290.40	-42.79	-2.55e-03	0.0	149.4	6.97	-50.39	5.89	-9.25	-34.48	290.40
67	66	371.29	43.23	9.34e-04	-7.34	0.0	-54.96	-52.74	-6.05	9.39	43.23	371.29
		287.13	34.67	2.73e-03	0.0	149.4	-57.04	-60.08	-6.05	9.39	34.67	287.13
67	102	367.76	-54.05	8.79e-04	-7.34	0.0	-18.29	-47.64	11.99	-19.81	-71.66	367.76
		291.11	-71.66	-5.96e-03	0.0	149.4	-20.36	-54.98	11.99	-19.81	-54.05	291.11
67	103	363.82	72.10	8.82e-04	-7.34	0.0	-27.63	-48.15	-12.16	19.95	72.10	363.82
		286.42	54.24	6.13e-03	0.0	149.4	-29.71	-55.49	-12.16	19.95	54.24	286.42
67	110	371.91	-17.96	8.74e-04	-7.34	0.0	-7.62	-46.98	2.98	-4.72	-22.22	371.91
		296.26	-22.22	-1.25e-03	0.0	149.4	-9.69	-54.31	2.98	-4.72	-17.96	296.26
67	111	359.68	22.67	8.87e-04	-7.34	0.0	-38.30	-48.81	-3.15	4.85	22.67	359.68
		281.28	18.15	1.43e-03	0.0	149.4	-40.38	-56.15	-3.15	4.85	18.15	281.28
67	128	427.14	-29.52	1.02e-03	-7.34	0.0	-21.77	-57.59	6.57	-11.07	-39.48	427.14
		335.99	-39.48	-3.28e-03	0.0	149.4	-23.84	-64.93	6.57	-11.07	-29.52	335.99
67	129	304.44	39.93	7.46e-04	-7.34	0.0	-24.15	-38.20	-6.74	11.21	39.93	304.44
		241.55	29.71	3.46e-03	0.0	149.4	-26.23	-45.53	-6.74	11.21	29.71	241.55
67	157	365.79	0.19	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.09	0.06	0.19	365.79
		288.77	0.06	7.04e-05	0.0	149.4	-25.03	-55.23	-0.09	0.06	0.06	288.77

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
67	158	365.79	0.22	8.81e-04	-7.34	0.0	-22.96	-47.90	-0.08	0.07	0.22	365.79
		288.77	0.10	8.73e-05	0.0	149.4	-25.03	-55.23	-0.08	0.07	0.10	288.77
68	4	562.42	0.35	-1.35e-03	-9.54	0.0	-38.12	83.87	0.12	-0.11	0.17	444.26
		444.26	0.17	-1.38e-04	0.0	149.4	-35.42	74.33	0.12	-0.11	0.35	562.42
68	5	365.80	0.19	-8.81e-04	-7.34	0.0	-25.04	55.23	0.08	-0.06	0.07	288.78
		288.78	0.07	-6.86e-05	0.0	149.4	-22.97	47.89	0.08	-0.06	0.19	365.80
68	7	365.80	0.27	-8.81e-04	-7.34	0.0	-25.04	55.23	0.07	-0.08	0.16	288.78
		288.78	0.16	-1.11e-04	0.0	149.4	-22.97	47.89	0.07	-0.08	0.27	365.80
68	9	649.31	0.29	-1.56e-03	-9.54	0.0	-43.69	95.94	0.14	-0.09	0.07	513.13
		513.13	0.07	-9.75e-05	0.0	149.4	-41.00	86.40	0.14	-0.09	0.29	649.31
68	11	649.31	0.34	-1.56e-03	-9.54	0.0	-43.69	95.94	0.14	-0.11	0.14	513.13
		513.13	0.14	-1.27e-04	0.0	149.4	-41.00	86.40	0.14	-0.11	0.34	649.31
68	15	365.79	0.19	-8.81e-04	-7.34	0.0	-25.03	55.23	0.09	-0.06	0.06	288.77
		288.77	0.06	-7.04e-05	0.0	149.4	-22.96	47.90	0.09	-0.06	0.19	365.79
68	17	365.79	0.24	-8.81e-04	-7.34	0.0	-25.04	55.23	0.08	-0.07	0.12	288.77
		288.77	0.12	-9.86e-05	0.0	149.4	-22.96	47.90	0.08	-0.07	0.24	365.79
68	18	423.72	0.26	-1.02e-03	-7.34	0.0	-28.75	63.28	0.09	-0.08	0.12	334.68
		334.68	0.12	-9.99e-05	0.0	149.4	-26.68	55.94	0.09	-0.08	0.26	423.72
68	19	481.65	0.22	-1.16e-03	-7.34	0.0	-32.47	71.32	0.11	-0.07	0.06	380.60
		380.60	0.06	-7.32e-05	0.0	149.4	-30.40	63.98	0.11	-0.07	0.22	481.65
68	21	481.65	0.25	-1.16e-03	-7.34	0.0	-32.47	71.32	0.10	-0.08	0.11	380.60
		380.60	0.11	-9.29e-05	0.0	149.4	-30.40	63.98	0.10	-0.08	0.25	481.65
68	22	365.79	0.19	-8.81e-04	-7.34	0.0	-25.03	55.23	0.09	-0.06	0.06	288.77
		288.77	0.06	-7.04e-05	0.0	149.4	-22.96	47.90	0.09	-0.06	0.19	365.79
68	23	365.79	0.23	-8.81e-04	-7.34	0.0	-25.03	55.23	0.08	-0.07	0.10	288.77
		288.77	0.10	-9.01e-05	0.0	149.4	-22.96	47.90	0.08	-0.07	0.23	365.79
68	24	388.97	0.20	-9.36e-04	-7.34	0.0	-26.52	58.45	0.09	-0.06	0.06	307.13
		307.13	0.06	-7.10e-05	0.0	149.4	-24.45	51.11	0.09	-0.06	0.20	388.97
68	26	388.96	0.23	-9.36e-04	-7.34	0.0	-26.52	58.45	0.09	-0.07	0.10	307.13
		307.13	0.10	-8.79e-05	0.0	149.4	-24.45	51.11	0.09	-0.07	0.23	388.96
68	27	365.79	0.19	-8.81e-04	-7.34	0.0	-25.03	55.23	0.09	-0.06	0.06	288.77
		288.77	0.06	-7.04e-05	0.0	149.4	-22.96	47.90	0.09	-0.06	0.19	365.79
68	28	365.79	0.22	-8.81e-04	-7.34	0.0	-25.03	55.23	0.08	-0.07	0.10	288.77
		288.77	0.10	-8.73e-05	0.0	149.4	-22.96	47.90	0.08	-0.07	0.22	365.79
68	29	352.27	-103.98	-8.36e-04	-7.34	0.0	-13.68	51.68	-23.07	38.17	-103.98	280.45
		280.45	-137.76	0.01	0.0	149.4	-11.60	44.34	-23.07	38.17	-137.76	352.27
68	36	379.32	138.21	-9.25e-04	-7.34	0.0	-36.39	58.79	23.24	-38.31	104.18	297.09
		297.09	104.18	-0.01	0.0	149.4	-34.32	51.45	23.24	-38.31	138.21	379.32
68	69	360.30	-34.48	-8.27e-04	-7.34	0.0	6.97	50.39	-5.89	9.25	-34.48	290.40
		290.40	-42.79	2.55e-03	0.0	149.4	9.04	43.05	-5.89	9.25	-42.79	360.30
68	76	371.29	43.23	-9.34e-04	-7.34	0.0	-57.04	60.08	6.05	-9.39	34.67	287.13
		287.13	34.67	-2.73e-03	0.0	149.4	-54.96	52.74	6.05	-9.39	43.23	371.29
68	93	367.76	-54.05	-8.79e-04	-7.34	0.0	-20.36	54.98	-11.99	19.81	-54.05	291.11
		291.11	-71.66	5.96e-03	0.0	149.4	-18.29	47.64	-11.99	19.81	-71.66	367.76
68	96	363.82	72.10	-8.82e-04	-7.34	0.0	-29.71	55.49	12.16	-19.95	54.24	286.42
		286.42	54.24	-6.13e-03	0.0	149.4	-27.63	48.15	12.16	-19.95	72.10	363.82
68	113	371.91	-17.96	-8.74e-04	-7.34	0.0	-9.69	54.31	-2.98	4.72	-17.96	296.26
		296.26	-22.22	1.25e-03	0.0	149.4	-7.62	46.98	-2.98	4.72	-22.22	371.91
68	116	359.68	22.67	-8.87e-04	-7.34	0.0	-40.38	56.15	3.15	-4.85	18.15	281.28
		281.28	18.15	-1.43e-03	0.0	149.4	-38.30	48.81	3.15	-4.85	22.67	359.68
68	142	427.14	-29.52	-1.02e-03	-7.34	0.0	-23.84	64.93	-6.57	11.07	-29.52	335.99
		335.99	-39.48	3.28e-03	0.0	149.4	-21.77	57.59	-6.57	11.07	-39.48	427.14
68	147	304.44	39.93	-7.46e-04	-7.34	0.0	-26.23	45.53	6.74	-11.21	29.71	241.55
		241.55	29.71	-3.46e-03	0.0	149.4	-24.15	38.20	6.74	-11.21	39.93	304.44
68	157	365.79	0.19	-8.81e-04	-7.34	0.0	-25.03	55.23	0.09	-0.06	0.06	288.77
		288.77	0.06	-7.04e-05	0.0	149.4	-22.96	47.90	0.09	-0.06	0.19	365.79
68	158	365.79	0.22	-8.81e-04	-7.34	0.0	-25.03	55.23	0.08	-0.07	0.10	288.77
		288.77	0.10	-8.73e-05	0.0	149.4	-22.96	47.90	0.08	-0.07	0.22	365.79
69	4	444.26	0.17	5.96e-04	-3.01	0.0	-38.12	-83.87	-0.12	0.11	0.17	444.26
		408.85	0.12	3.97e-05	0.0	41.5	-38.97	-86.88	-0.12	0.11	0.12	408.85
69	5	288.78	0.07	3.88e-04	-2.31	0.0	-25.04	-55.23	-0.08	0.06	0.07	288.78
		265.39	0.03	1.97e-05	0.0	41.5	-25.70	-57.55	-0.08	0.06	0.03	265.39
69	7	288.78	0.16	3.88e-04	-2.31	0.0	-25.04	-55.23	-0.07	0.08	0.16	288.78
		265.39	0.13	3.21e-05	0.0	41.5	-25.70	-57.55	-0.07	0.08	0.13	265.39
69	9	513.13	0.07	6.88e-04	-3.01	0.0	-43.69	-95.94	-0.14	0.09	0.07	513.13
		472.72	0.01	2.80e-05	0.0	41.5	-44.54	-98.95	-0.14	0.09	0.01	472.72
69	11	513.13	0.14	6.88e-04	-3.01	0.0	-43.69	-95.94	-0.14	0.11	0.14	513.13
		472.72	0.08	3.66e-05	0.0	41.5	-44.54	-98.95	-0.14	0.11	0.08	472.72
69	15	288.77	0.06	3.88e-04	-2.31	0.0	-25.03	-55.23	-0.09	0.06	0.06	288.77
		265.38	0.02	2.02e-05	0.0	41.5	-25.69	-57.55	-0.09	0.06	0.02	265.38
69	17	288.77	0.12	3.88e-04	-2.31	0.0	-25.04	-55.23	-0.08	0.07	0.12	288.77
		265.38	0.09	2.84e-05	0.0	41.5	-25.69	-57.55	-0.08	0.07	0.09	265.38

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
69	18	334.68	0.12	4.49e-04	-2.31	0.0	-28.75	-63.28	-0.09	0.08	0.12	334.68
		307.96	0.09	2.88e-05	0.0	41.5	-29.41	-65.59	-0.09	0.08	0.09	307.96
69	19	380.60	0.06	5.11e-04	-2.31	0.0	-32.47	-71.32	-0.11	0.07	0.06	380.60
		350.54	0.02	2.10e-05	0.0	41.5	-33.13	-73.64	-0.11	0.07	0.02	350.54
69	21	380.60	0.11	5.11e-04	-2.31	0.0	-32.47	-71.32	-0.10	0.08	0.11	380.60
		350.54	0.06	2.68e-05	0.0	41.5	-33.13	-73.64	-0.10	0.08	0.06	350.54
69	22	288.77	0.06	3.88e-04	-2.31	0.0	-25.03	-55.23	-0.09	0.06	0.06	288.77
		265.38	0.02	2.02e-05	0.0	41.5	-25.69	-57.55	-0.09	0.06	0.02	265.38
69	23	288.77	0.10	3.88e-04	-2.31	0.0	-25.03	-55.23	-0.08	0.07	0.10	288.77
		265.38	0.07	2.60e-05	0.0	41.5	-25.69	-57.55	-0.08	0.07	0.07	265.38
69	24	307.13	0.06	4.12e-04	-2.31	0.0	-26.52	-58.45	-0.09	0.06	0.06	307.13
		282.41	0.02	2.04e-05	0.0	41.5	-27.17	-60.77	-0.09	0.06	0.02	282.41
69	26	307.13	0.10	4.12e-04	-2.31	0.0	-26.52	-58.45	-0.09	0.07	0.10	307.13
		282.41	0.06	2.53e-05	0.0	41.5	-27.18	-60.77	-0.09	0.07	0.06	282.41
69	27	288.77	0.06	3.88e-04	-2.31	0.0	-25.03	-55.23	-0.09	0.06	0.06	288.77
		265.38	0.02	2.02e-05	0.0	41.5	-25.69	-57.55	-0.09	0.06	0.02	265.38
69	28	288.77	0.10	3.88e-04	-2.31	0.0	-25.03	-55.23	-0.08	0.07	0.10	288.77
		265.38	0.06	2.51e-05	0.0	41.5	-25.69	-57.55	-0.08	0.07	0.06	265.38
69	47	280.45	-93.96	3.71e-04	-2.31	0.0	-13.04	-51.71	24.76	-38.17	-103.98	280.45
		258.49	-103.98	-3.93e-03	0.0	41.5	-13.69	-54.02	24.76	-38.17	-93.96	258.49
69	50	297.09	104.17	4.04e-04	-2.31	0.0	-37.03	-58.76	-24.93	38.31	104.17	297.09
		272.27	94.09	3.98e-03	0.0	41.5	-37.68	-61.08	-24.93	38.31	94.09	272.27
69	63	290.40	-31.95	3.73e-04	-2.31	0.0	9.18	-50.86	6.51	-9.25	-34.48	290.40
		268.79	-34.48	-9.34e-04	0.0	41.5	8.53	-53.18	6.51	-9.25	-31.95	268.79
69	66	287.13	34.67	4.02e-04	-2.31	0.0	-59.25	-59.60	-6.67	9.39	34.67	287.13
		261.97	32.08	9.85e-04	0.0	41.5	-59.91	-61.92	-6.67	9.39	32.08	261.97
69	102	291.11	-48.82	3.88e-04	-2.31	0.0	-20.01	-55.08	12.87	-19.81	-54.05	291.11
		267.79	-54.05	-2.02e-03	0.0	41.5	-20.67	-57.40	12.87	-19.81	-48.82	267.79
69	103	286.42	54.24	3.87e-04	-2.31	0.0	-30.06	-55.39	-13.04	19.95	54.24	286.42
		262.97	48.94	2.07e-03	0.0	41.5	-30.71	-57.70	-13.04	19.95	48.94	262.97
69	110	296.26	-16.65	3.90e-04	-2.31	0.0	-8.53	-54.64	3.31	-4.72	-17.96	296.26
		273.11	-17.96	-4.64e-04	0.0	41.5	-9.18	-56.96	3.31	-4.72	-16.65	273.11
69	111	281.28	18.15	3.86e-04	-2.31	0.0	-41.54	-55.82	-3.48	4.85	18.15	281.28
		257.65	16.78	5.15e-04	0.0	41.5	-42.20	-58.14	-3.48	4.85	16.78	257.65
69	128	335.99	-26.57	4.48e-04	-2.31	0.0	-23.04	-65.67	7.02	-11.07	-29.52	335.99
		308.40	-29.52	-1.11e-03	0.0	41.5	-23.69	-67.99	7.02	-11.07	-26.57	308.40
69	129	241.55	29.71	3.27e-04	-2.31	0.0	-27.03	-44.80	-7.19	11.21	29.71	241.55
		222.37	26.69	1.16e-03	0.0	41.5	-27.68	-47.11	-7.19	11.21	26.69	222.37
69	157	288.77	0.06	3.88e-04	-2.31	0.0	-25.03	-55.23	-0.09	0.06	0.06	288.77
		265.38	0.02	2.02e-05	0.0	41.5	-25.69	-57.55	-0.09	0.06	0.02	265.38
69	158	288.77	0.10	3.88e-04	-2.31	0.0	-25.03	-55.23	-0.08	0.07	0.10	288.77
		265.38	0.06	2.51e-05	0.0	41.5	-25.69	-57.55	-0.08	0.07	0.06	265.38
70	4	410.02	0.98	-2.18e-03	-7.83	0.0	-57.65	153.02	-0.80	-0.11	0.98	410.02
		249.12	0.12	-1.07e-04	0.0	107.9	-55.44	145.19	-0.80	-0.11	0.12	249.12
70	5	266.11	0.46	-1.42e-03	-6.02	0.0	-37.53	99.44	-0.40	-0.06	0.46	266.11
		162.06	0.03	-5.29e-05	0.0	107.9	-35.83	93.42	-0.40	-0.06	0.03	162.06
70	7	266.11	0.82	-1.42e-03	-6.02	0.0	-37.53	99.44	-0.64	-0.08	0.82	266.11
		162.06	0.13	-8.68e-05	0.0	107.9	-35.83	93.42	-0.64	-0.08	0.13	162.06
70	9	474.11	0.63	-2.52e-03	-7.83	0.0	-66.52	176.77	-0.57	-0.09	0.63	287.59
		287.59	0.01	-7.46e-05	0.0	107.9	-64.31	168.94	-0.57	-0.09	0.01	474.11
70	11	474.11	0.88	-2.52e-03	-7.83	0.0	-66.53	176.77	-0.74	-0.11	0.88	287.59
		287.59	0.08	-9.84e-05	0.0	107.9	-64.31	168.94	-0.74	-0.11	0.08	474.11
70	15	266.11	0.47	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.41	-0.06	0.47	162.06
		162.06	0.02	-5.40e-05	0.0	107.9	-35.82	93.42	-0.41	-0.06	0.02	162.06
70	17	266.11	0.71	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.58	-0.07	0.71	266.11
		162.06	0.09	-7.67e-05	0.0	107.9	-35.82	93.42	-0.58	-0.07	0.09	162.06
70	18	308.83	0.71	-1.64e-03	-6.02	0.0	-43.44	115.27	-0.58	-0.08	0.71	187.70
		187.70	0.09	-7.77e-05	0.0	107.9	-41.74	109.25	-0.58	-0.08	0.09	308.83
70	19	351.56	0.47	-1.87e-03	-6.02	0.0	-49.36	131.11	-0.42	-0.07	0.47	213.34
		213.34	0.02	-5.62e-05	0.0	107.9	-47.66	125.08	-0.42	-0.07	0.02	351.56
70	21	351.55	0.64	-1.87e-03	-6.02	0.0	-49.36	131.11	-0.54	-0.08	0.64	213.34
		213.34	0.06	-7.20e-05	0.0	107.9	-47.66	125.08	-0.54	-0.08	0.06	351.55
70	22	266.11	0.47	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.41	-0.06	0.47	162.06
		162.06	0.02	-5.40e-05	0.0	107.9	-35.82	93.42	-0.41	-0.06	0.02	162.06
70	23	266.11	0.64	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.53	-0.07	0.64	162.06
		162.06	0.07	-6.99e-05	0.0	107.9	-35.82	93.42	-0.53	-0.07	0.07	266.11
70	24	283.20	0.47	-1.51e-03	-6.02	0.0	-39.89	105.77	-0.42	-0.06	0.47	172.31
		172.31	0.02	-5.44e-05	0.0	107.9	-38.19	99.75	-0.42	-0.06	0.02	283.20
70	26	283.20	0.61	-1.51e-03	-6.02	0.0	-39.89	105.77	-0.51	-0.07	0.61	172.31
		172.31	0.06	-6.80e-05	0.0	107.9	-38.19	99.75	-0.51	-0.07	0.06	283.20
70	27	266.11	0.47	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.41	-0.06	0.47	162.06
		162.06	0.02	-5.40e-05	0.0	107.9	-35.82	93.42	-0.41	-0.06	0.02	266.11

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
70	28	266.11	0.61	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.51	-0.07	0.61	162.06
		162.06	0.06	-6.76e-05	0.0	107.9	-35.82	93.42	-0.51	-0.07	0.06	266.11
70	29	259.19	-52.99	-1.36e-03	-6.02	0.0	-19.72	96.37	-36.89	38.17	-52.99	158.43
		158.43	-93.96	0.01	0.0	107.9	-18.02	90.35	-36.89	38.17	-93.96	259.19
70	36	273.03	94.09	-1.47e-03	-6.02	0.0	-55.32	102.51	35.86	-38.31	54.22	165.68
		165.68	54.22	-0.01	0.0	107.9	-53.62	96.49	35.86	-38.31	94.09	273.03
70	69	269.49	-18.59	-1.38e-03	-6.02	0.0	16.62	99.53	-8.63	9.25	-18.59	165.31
		165.31	-31.95	2.64e-03	0.0	107.9	18.33	93.51	-8.63	9.25	-31.95	269.49
70	76	262.73	32.08	-1.45e-03	-6.02	0.0	-91.67	99.35	7.61	-9.39	19.81	158.80
		158.80	19.81	-2.78e-03	0.0	107.9	-89.96	93.32	7.61	-9.39	32.08	262.73
70	93	268.50	-27.22	-1.42e-03	-6.02	0.0	-29.37	100.18	-19.50	19.81	-27.22	163.66
		163.66	-48.82	5.62e-03	0.0	107.9	-27.66	94.16	-19.50	19.81	-48.82	268.50
70	96	263.71	48.94	-1.41e-03	-6.02	0.0	-45.68	98.70	18.48	-19.95	28.45	160.46
		160.46	28.45	-5.75e-03	0.0	107.9	-43.98	92.68	18.48	-19.95	48.94	263.71
70	113	273.82	-9.42	-1.43e-03	-6.02	0.0	-10.58	101.81	-4.74	4.72	-9.42	167.21
		167.21	-16.65	1.31e-03	0.0	107.9	-8.88	95.79	-4.74	4.72	-16.65	273.82
70	116	258.39	16.78	-1.40e-03	-6.02	0.0	-64.46	97.07	3.72	-4.85	10.65	156.90
		156.90	10.65	-1.45e-03	0.0	107.9	-62.76	91.05	3.72	-4.85	16.78	258.39
70	142	309.12	-14.74	-1.64e-03	-6.02	0.0	-28.61	115.82	-10.38	11.07	-14.74	187.47
		187.47	-26.57	3.05e-03	0.0	107.9	-26.91	109.79	-10.38	11.07	-26.57	309.12
70	147	223.10	26.69	-1.19e-03	-6.02	0.0	-46.44	83.06	9.36	-11.21	15.97	136.65
		136.65	15.97	-3.19e-03	0.0	107.9	-44.73	77.04	9.36	-11.21	26.69	223.10
70	157	266.11	0.47	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.41	-0.06	0.47	162.06
		162.06	0.02	-5.40e-05	0.0	107.9	-35.82	93.42	-0.41	-0.06	0.02	266.11
70	158	266.11	0.61	-1.42e-03	-6.02	0.0	-37.52	99.44	-0.51	-0.07	0.61	162.06
		162.06	0.06	-6.76e-05	0.0	107.9	-35.82	93.42	-0.51	-0.07	0.06	266.11
71	4	249.12	1.85	3.07e-03	-6.10	0.0	-57.65	-153.02	0.80	0.11	0.98	249.12
		81.76	0.98	1.23e-04	0.0	107.2	-59.37	-159.13	0.80	0.11	1.85	81.76
71	5	162.06	0.89	1.99e-03	-4.70	0.0	-37.53	-99.44	0.40	0.06	0.46	162.06
		52.92	0.46	6.05e-05	0.0	107.2	-38.85	-104.13	0.40	0.06	0.89	52.92
71	7	162.06	1.51	1.99e-03	-4.70	0.0	-37.53	-99.44	0.64	0.08	0.82	162.06
		52.91	0.82	1.01e-04	0.0	107.2	-38.86	-104.13	0.64	0.08	1.51	52.91
71	9	287.59	1.23	3.54e-03	-6.10	0.0	-66.52	-176.77	0.57	0.09	0.63	287.59
		94.76	0.63	8.50e-05	0.0	107.2	-68.25	-182.88	0.57	0.09	1.23	94.76
71	11	287.59	1.67	3.54e-03	-6.10	0.0	-66.53	-176.77	0.74	0.11	0.88	287.59
		94.76	0.88	1.13e-04	0.0	107.2	-68.25	-182.88	0.74	0.11	1.67	94.76
71	15	162.06	0.91	1.99e-03	-4.70	0.0	-37.52	-99.44	0.41	0.06	0.47	162.06
		52.91	0.47	6.18e-05	0.0	107.2	-38.85	-104.14	0.41	0.06	0.91	52.91
71	17	162.06	1.33	1.99e-03	-4.70	0.0	-37.52	-99.44	0.58	0.07	0.71	162.06
		52.91	0.71	8.85e-05	0.0	107.2	-38.85	-104.14	0.58	0.07	1.33	52.91
71	18	187.70	1.33	2.31e-03	-4.70	0.0	-43.44	-115.27	0.58	0.08	0.71	187.70
		61.57	0.71	8.96e-05	0.0	107.2	-44.77	-119.97	0.58	0.08	1.33	61.57
71	19	213.34	0.93	2.63e-03	-4.70	0.0	-49.36	-131.11	0.42	0.07	0.47	213.34
		70.23	0.47	6.40e-05	0.0	107.2	-50.68	-135.80	0.42	0.07	0.93	70.23
71	21	213.34	1.22	2.63e-03	-4.70	0.0	-49.36	-131.11	0.54	0.08	0.64	213.34
		70.23	0.64	8.27e-05	0.0	107.2	-50.69	-135.80	0.54	0.08	1.22	70.23
71	22	162.06	0.91	1.99e-03	-4.70	0.0	-37.52	-99.44	0.41	0.06	0.47	162.06
		52.91	0.47	6.18e-05	0.0	107.2	-38.85	-104.14	0.41	0.06	0.91	52.91
71	23	162.06	1.20	1.99e-03	-4.70	0.0	-37.52	-99.44	0.53	0.07	0.64	162.06
		52.91	0.64	8.05e-05	0.0	107.2	-38.85	-104.14	0.53	0.07	1.20	52.91
71	24	172.31	0.92	2.12e-03	-4.70	0.0	-39.89	-105.77	0.42	0.06	0.47	172.31
		56.37	0.47	6.23e-05	0.0	107.2	-41.21	-110.47	0.42	0.06	0.92	56.37
71	26	172.31	1.16	2.12e-03	-4.70	0.0	-39.89	-105.77	0.51	0.07	0.61	172.31
		56.37	0.61	7.83e-05	0.0	107.2	-41.21	-110.47	0.51	0.07	1.16	56.37
71	27	162.06	0.91	1.99e-03	-4.70	0.0	-37.52	-99.44	0.41	0.06	0.47	162.06
		52.91	0.47	6.18e-05	0.0	107.2	-38.85	-104.14	0.41	0.06	0.91	52.91
71	28	162.06	1.16	1.99e-03	-4.70	0.0	-37.52	-99.44	0.51	0.07	0.61	162.06
		52.91	0.61	7.78e-05	0.0	107.2	-38.85	-104.14	0.51	0.07	1.16	52.91
71	47	158.43	-12.04	1.93e-03	-4.70	0.0	-19.00	-96.48	37.65	-38.17	-52.99	158.43
		52.38	-52.99	-0.01	0.0	107.2	-20.32	-101.17	37.65	-38.17	-12.04	52.38
71	50	165.68	54.22	2.06e-03	-4.70	0.0	-56.05	-102.41	-36.63	38.31	54.22	165.68
		53.43	14.36	0.01	0.0	107.2	-57.37	-107.10	-36.63	38.31	14.36	53.43
71	63	165.31	-5.21	1.98e-03	-4.70	0.0	19.10	-100.14	8.35	-9.25	-18.59	165.31
		55.34	-18.59	-2.53e-03	0.0	107.2	17.78	-104.83	8.35	-9.25	-5.21	55.34
71	66	158.80	19.81	2.01e-03	-4.70	0.0	-94.15	-98.75	-7.33	9.39	19.81	158.80
		50.47	7.54	2.69e-03	0.0	107.2	-95.47	-103.44	-7.33	9.39	7.54	50.47
71	102	163.66	-5.62	2.01e-03	-4.70	0.0	-28.98	-100.29	19.89	-19.81	-27.22	163.66
		53.60	-27.22	-5.54e-03	0.0	107.2	-30.30	-104.98	19.89	-19.81	-5.62	53.60
71	103	160.46	28.45	1.98e-03	-4.70	0.0	-46.07	-98.59	-18.87	19.95	28.45	160.46
		52.21	7.94	5.70e-03	0.0	107.2	-47.39	-103.29	-18.87	19.95	7.94	52.21
71	110	167.21	-2.13	2.03e-03	-4.70	0.0	-9.28	-102.18	4.59	-4.72	-9.42	167.21
		55.13	-9.42	-1.24e-03	0.0	107.2	-10.61	-106.88	4.59	-4.72	-2.13	55.13

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
71	111	156.90	10.65	1.96e-03	-4.70	0.0	-65.76	-96.70	-3.57	4.85	10.65	156.90
		50.68	4.46	1.39e-03	0.0	107.2	-67.09	-101.40	-3.57	4.85	4.46	50.68
71	128	187.47	-2.62	2.30e-03	-4.70	0.0	-27.76	-116.39	10.47	-11.07	-14.74	187.47
		60.41	-14.74	-2.89e-03	0.0	107.2	-29.09	-121.09	10.47	-11.07	-2.62	60.41
71	129	136.65	15.97	1.69e-03	-4.70	0.0	-47.28	-82.49	-9.45	11.21	15.97	136.65
		45.40	4.94	3.05e-03	0.0	107.2	-48.61	-87.19	-9.45	11.21	4.94	45.40
71	157	162.06	0.91	1.99e-03	-4.70	0.0	-37.52	-99.44	0.41	0.06	0.47	162.06
		52.91	0.47	6.18e-05	0.0	107.2	-38.85	-104.14	0.41	0.06	0.91	52.91
71	158	162.06	1.16	1.99e-03	-4.70	0.0	-37.52	-99.44	0.51	0.07	0.61	162.06
		52.91	0.61	7.78e-05	0.0	107.2	-38.85	-104.14	0.51	0.07	1.16	52.91
72	4	249.12	1.85	-3.07e-03	-6.10	0.0	-59.37	159.13	-0.80	-0.11	1.85	81.76
		81.76	0.98	-1.23e-04	0.0	107.2	-57.65	153.02	-0.80	-0.11	0.98	249.12
72	5	162.06	0.89	-1.99e-03	-4.70	0.0	-38.85	104.13	-0.40	-0.06	0.89	52.92
		52.92	0.46	-6.05e-05	0.0	107.2	-37.53	99.44	-0.40	-0.06	0.46	162.06
72	7	162.06	1.51	-1.99e-03	-4.70	0.0	-38.86	104.13	-0.64	-0.08	1.51	52.91
		52.91	0.82	-1.01e-04	0.0	107.2	-37.53	99.44	-0.64	-0.08	0.82	162.06
72	9	287.59	1.23	-3.54e-03	-6.10	0.0	-68.25	182.88	-0.57	-0.09	1.23	94.76
		94.76	0.63	-8.50e-05	0.0	107.2	-66.52	176.77	-0.57	-0.09	0.63	287.59
72	11	287.59	1.67	-3.54e-03	-6.10	0.0	-68.25	182.88	-0.74	-0.11	1.67	94.76
		94.76	0.88	-1.13e-04	0.0	107.2	-66.53	176.77	-0.74	-0.11	0.88	287.59
72	15	162.06	0.91	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.41	-0.06	0.91	52.91
		52.91	0.47	-6.18e-05	0.0	107.2	-37.52	99.44	-0.41	-0.06	0.47	162.06
72	17	162.06	1.33	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.58	-0.07	1.33	52.91
		52.91	0.71	-8.85e-05	0.0	107.2	-37.52	99.44	-0.58	-0.07	0.71	162.06
72	18	187.70	1.33	-2.31e-03	-4.70	0.0	-44.77	119.97	-0.58	-0.08	1.33	61.57
		61.57	0.71	-8.96e-05	0.0	107.2	-43.44	115.27	-0.58	-0.08	0.71	187.70
72	19	213.34	0.93	-2.63e-03	-4.70	0.0	-50.68	135.80	-0.42	-0.07	0.93	70.23
		70.23	0.47	-6.40e-05	0.0	107.2	-49.36	131.11	-0.42	-0.07	0.47	213.34
72	21	213.34	1.22	-2.63e-03	-4.70	0.0	-50.69	135.80	-0.54	-0.08	1.22	70.23
		70.23	0.64	-8.27e-05	0.0	107.2	-49.36	131.11	-0.54	-0.08	0.64	213.34
72	22	162.06	0.91	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.41	-0.06	0.91	52.91
		52.91	0.47	-6.18e-05	0.0	107.2	-37.52	99.44	-0.41	-0.06	0.47	162.06
72	23	162.06	1.20	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.53	-0.07	1.20	52.91
		52.91	0.64	-8.05e-05	0.0	107.2	-37.52	99.44	-0.53	-0.07	0.64	162.06
72	24	172.31	0.92	-2.12e-03	-4.70	0.0	-41.21	110.47	-0.42	-0.06	0.92	56.37
		56.37	0.47	-6.23e-05	0.0	107.2	-39.89	105.77	-0.42	-0.06	0.47	172.31
72	26	172.31	1.16	-2.12e-03	-4.70	0.0	-41.21	110.47	-0.51	-0.07	1.16	56.37
		56.37	0.61	-7.83e-05	0.0	107.2	-39.89	105.77	-0.51	-0.07	0.61	172.31
72	27	162.06	0.91	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.41	-0.06	0.91	52.91
		52.91	0.47	-6.18e-05	0.0	107.2	-37.52	99.44	-0.41	-0.06	0.47	162.06
72	28	162.06	1.16	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.51	-0.07	1.16	52.91
		52.91	0.61	-7.78e-05	0.0	107.2	-37.52	99.44	-0.51	-0.07	0.61	162.06
72	29	158.43	-12.04	-1.93e-03	-4.70	0.0	-20.32	101.17	-37.65	38.17	-12.04	52.38
		52.38	-52.99	0.01	0.0	107.2	-19.00	96.48	-37.65	38.17	-52.99	158.43
72	36	165.68	54.22	-2.06e-03	-4.70	0.0	-57.37	107.10	36.63	-38.31	14.36	53.43
		53.43	14.36	-0.01	0.0	107.2	-56.05	102.41	36.63	-38.31	54.22	165.68
72	69	165.31	-5.21	-1.98e-03	-4.70	0.0	17.78	104.83	-8.35	9.25	-5.21	55.34
		55.34	-18.59	2.53e-03	0.0	107.2	19.10	100.14	-8.35	9.25	-18.59	165.31
72	76	158.80	19.81	-2.01e-03	-4.70	0.0	-95.47	103.44	7.33	-9.39	7.54	50.47
		50.47	7.54	-2.69e-03	0.0	107.2	-94.15	98.75	7.33	-9.39	19.81	158.80
72	93	163.66	-5.62	-2.01e-03	-4.70	0.0	-30.30	104.98	-19.89	19.81	-5.62	53.60
		53.60	-27.22	5.54e-03	0.0	107.2	-28.98	100.29	-19.89	19.81	-27.22	163.66
72	96	160.46	28.45	-1.98e-03	-4.70	0.0	-47.39	103.29	18.87	-19.95	7.94	52.21
		52.21	7.94	-5.70e-03	0.0	107.2	-46.07	98.59	18.87	-19.95	28.45	160.46
72	113	167.21	-2.13	-2.03e-03	-4.70	0.0	-10.61	106.88	-4.59	4.72	-2.13	55.13
		55.13	-9.42	1.24e-03	0.0	107.2	-9.28	102.18	-4.59	4.72	-9.42	167.21
72	116	156.90	10.65	-1.96e-03	-4.70	0.0	-67.09	101.40	3.57	-4.85	4.46	50.68
		50.68	4.46	-1.39e-03	0.0	107.2	-65.76	96.70	3.57	-4.85	10.65	156.90
72	142	187.47	-2.62	-2.30e-03	-4.70	0.0	-29.09	121.09	-10.47	11.07	-2.62	60.41
		60.41	-14.74	2.89e-03	0.0	107.2	-27.76	116.39	-10.47	11.07	-14.74	187.47
72	147	136.65	15.97	-1.69e-03	-4.70	0.0	-48.61	87.19	9.45	-11.21	4.94	45.40
		45.40	4.94	-3.05e-03	0.0	107.2	-47.28	82.49	9.45	-11.21	15.97	136.65
72	157	162.06	0.91	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.41	-0.06	0.91	52.91
		52.91	0.47	-6.18e-05	0.0	107.2	-37.52	99.44	-0.41	-0.06	0.47	162.06
72	158	162.06	1.16	-1.99e-03	-4.70	0.0	-38.85	104.14	-0.51	-0.07	1.16	52.91
		52.91	0.61	-7.78e-05	0.0	107.2	-37.52	99.44	-0.51	-0.07	0.61	162.06
73	5	378.80	0.21	-1.82e-04	-6.81	0.0	-10.67	4.34	0.0	-0.06	0.21	377.07
		377.07	0.21	-5.07e-05	0.0	125.1	-8.74	-2.47	0.0	-0.06	0.21	378.24
73	7	378.79	0.29	-1.82e-04	-6.81	0.0	-10.67	4.34	-1.20e-06	-0.08	0.29	377.06
		377.06	0.29	-8.31e-05	0.0	125.1	-8.75	-2.47	-1.20e-06	-0.08	0.29	378.23
73	9	671.13	0.32	-3.23e-04	-8.85	0.0	-17.87	4.51	0.0	-0.09	0.32	669.70
		669.70	0.32	-7.15e-05	0.0	125.1	-15.37	-4.34	0.0	-0.09	0.32	669.80

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
73	11	671.13	0.38	-3.23e-04	-8.85	0.0	-17.87	4.51	0.0	-0.11	0.38	669.69
		669.69	0.38	-9.42e-05	0.0	125.1	-15.37	-4.34	0.0	-0.11	0.38	669.80
73	15	378.79	0.21	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.06	0.21	377.06
		377.06	0.21	-5.23e-05	0.0	125.1	-8.74	-2.47	0.0	-0.06	0.21	378.23
73	17	378.79	0.26	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.07	0.26	377.06
		377.06	0.26	-7.39e-05	0.0	125.1	-8.74	-2.47	0.0	-0.07	0.26	378.23
73	19	497.92	0.24	-2.39e-04	-6.81	0.0	-13.34	3.58	0.0	-0.07	0.24	496.74
		496.74	0.24	-5.36e-05	0.0	125.1	-11.42	-3.22	0.0	-0.07	0.24	496.97
73	21	497.92	0.28	-2.39e-04	-6.81	0.0	-13.34	3.58	0.0	-0.08	0.28	496.74
		496.74	0.28	-6.88e-05	0.0	125.1	-11.42	-3.22	0.0	-0.08	0.28	496.97
73	22	378.79	0.21	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.06	0.21	377.06
		377.06	0.21	-5.23e-05	0.0	125.1	-8.74	-2.47	0.0	-0.06	0.21	378.23
73	23	378.79	0.25	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.07	0.25	377.06
		377.06	0.25	-6.74e-05	0.0	125.1	-8.74	-2.47	0.0	-0.07	0.25	378.23
73	24	402.61	0.22	-1.94e-04	-6.81	0.0	-11.19	4.19	0.0	-0.06	0.22	401.00
		401.00	0.22	-5.25e-05	0.0	125.1	-9.27	-2.62	0.0	-0.06	0.22	401.98
73	26	402.61	0.25	-1.94e-04	-6.81	0.0	-11.20	4.19	0.0	-0.07	0.25	401.00
		401.00	0.25	-6.55e-05	0.0	125.1	-9.27	-2.62	0.0	-0.07	0.25	401.98
73	27	378.79	0.21	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.06	0.21	377.06
		377.06	0.21	-5.23e-05	0.0	125.1	-8.74	-2.47	0.0	-0.06	0.21	378.23
73	28	378.79	0.24	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.07	0.24	377.06
		377.06	0.24	-6.52e-05	0.0	125.1	-8.74	-2.47	0.0	-0.07	0.24	378.23
73	31	359.72	-139.74	-1.82e-04	-6.81	0.0	-9.04	6.17	3.56	39.82	-142.79	355.97
		355.97	-142.79	5.59e-03	0.0	125.1	-7.12	-0.63	3.56	39.82	-139.74	359.71
73	34	398.62	143.27	-1.83e-04	-6.81	0.0	-12.28	2.51	-3.56	-39.95	143.27	398.14
		396.75	140.23	-5.72e-03	0.0	125.1	-10.35	-4.30	-3.56	-39.95	140.23	396.75
73	94	378.51	-72.62	-1.86e-04	-6.81	0.0	-11.24	5.76	1.92	20.70	-74.27	375.47
		375.47	-74.27	2.87e-03	0.0	125.1	-9.32	-1.05	1.92	20.70	-72.62	378.41
73	95	379.43	74.76	-1.78e-04	-6.81	0.0	-10.07	2.92	-1.92	-20.84	74.76	378.64
		378.05	73.10	-3.00e-03	0.0	125.1	-8.15	-3.88	-1.92	-20.84	73.10	378.05
73	113	382.91	-18.56	-1.68e-04	-6.81	0.0	-8.44	-0.30	-2.25	4.72	-18.56	382.91
		378.28	-22.02	2.90e-04	0.0	125.1	-6.52	-7.11	-2.25	4.72	-22.02	378.28
73	116	378.17	22.51	-1.96e-04	-6.81	0.0	-12.88	8.98	2.25	-4.85	19.04	371.20
		371.20	19.04	-4.20e-04	0.0	125.1	-10.96	2.17	2.25	-4.85	22.51	378.17
73	141	320.50	-39.06	-1.45e-04	-6.81	0.0	-0.17	-1.36	-2.35	11.23	-39.06	320.50
		315.44	-42.22	1.40e-03	0.0	125.1	1.75	-8.17	-2.35	11.23	-42.22	315.44
73	142	441.97	-38.57	-2.03e-04	-6.81	0.0	-18.51	4.67	-2.42	11.07	-38.57	440.54
		440.54	-41.66	1.39e-03	0.0	125.1	-16.59	-2.14	-2.42	11.07	-41.66	441.22
73	147	315.63	42.14	-1.61e-04	-6.81	0.0	-2.80	4.01	2.42	-11.21	39.05	313.58
		313.58	39.05	-1.52e-03	0.0	125.1	-0.88	-2.80	2.42	-11.21	42.14	315.24
73	148	441.01	42.70	-2.20e-04	-6.81	0.0	-21.15	10.04	2.35	-11.36	39.54	433.62
		433.62	39.54	-1.53e-03	0.0	125.1	-19.23	3.23	2.35	-11.36	42.70	441.01
73	157	378.79	0.21	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.06	0.21	377.06
		377.06	0.21	-5.23e-05	0.0	125.1	-8.74	-2.47	0.0	-0.06	0.21	378.23
73	158	378.79	0.24	-1.82e-04	-6.81	0.0	-10.66	4.34	0.0	-0.07	0.24	377.06
		377.06	0.24	-6.52e-05	0.0	125.1	-8.74	-2.47	0.0	-0.07	0.24	378.23
74	4	444.26	0.17	-5.96e-04	-3.01	0.0	-38.97	86.88	0.12	-0.11	0.12	408.85
		408.85	0.12	-3.97e-05	0.0	41.5	-38.12	83.87	0.12	-0.11	0.17	444.26
74	5	288.78	0.07	-3.88e-04	-2.31	0.0	-25.70	57.55	0.08	-0.06	0.03	265.39
		265.39	0.03	-1.97e-05	0.0	41.5	-25.04	55.23	0.08	-0.06	0.07	288.78
74	7	288.78	0.16	-3.88e-04	-2.31	0.0	-25.70	57.55	0.07	-0.08	0.13	265.39
		265.39	0.13	-3.21e-05	0.0	41.5	-25.04	55.23	0.07	-0.08	0.16	288.78
74	9	513.13	0.07	-6.88e-04	-3.01	0.0	-44.54	98.95	0.14	-0.09	0.01	472.72
		472.72	0.01	-2.80e-05	0.0	41.5	-43.69	95.94	0.14	-0.09	0.07	513.13
74	11	513.13	0.14	-6.88e-04	-3.01	0.0	-44.54	98.95	0.14	-0.11	0.08	472.72
		472.72	0.08	-3.66e-05	0.0	41.5	-43.69	95.94	0.14	-0.11	0.14	513.13
74	15	288.77	0.06	-3.88e-04	-2.31	0.0	-25.69	57.55	0.09	-0.06	0.02	265.38
		265.38	0.02	-2.02e-05	0.0	41.5	-25.03	55.23	0.09	-0.06	0.06	288.77
74	17	288.77	0.12	-3.88e-04	-2.31	0.0	-25.69	57.55	0.08	-0.07	0.09	265.38
		265.38	0.09	-2.84e-05	0.0	41.5	-25.04	55.23	0.08	-0.07	0.12	288.77
74	18	334.68	0.12	-4.49e-04	-2.31	0.0	-29.41	65.59	0.09	-0.08	0.09	307.96
		307.96	0.09	-2.88e-05	0.0	41.5	-28.75	63.28	0.09	-0.08	0.12	334.68
74	19	380.60	0.06	-5.11e-04	-2.31	0.0	-33.13	73.64	0.11	-0.07	0.02	350.54
		350.54	0.02	-2.10e-05	0.0	41.5	-32.47	71.32	0.11	-0.07	0.06	380.60
74	21	380.60	0.11	-5.11e-04	-2.31	0.0	-33.13	73.64	0.10	-0.08	0.06	350.54
		350.54	0.06	-2.68e-05	0.0	41.5	-32.47	71.32	0.10	-0.08	0.11	380.60
74	22	288.77	0.06	-3.88e-04	-2.31	0.0	-25.69	57.55	0.09	-0.06	0.02	265.38
		265.38	0.02	-2.02e-05	0.0	41.5	-25.03	55.23	0.09	-0.06	0.06	288.77
74	23	288.77	0.10	-3.88e-04	-2.31	0.0	-25.69	57.55	0.08	-0.07	0.07	265.38
		265.38	0.07	-2.60e-05	0.0	41.5	-25.03	55.23	0.08	-0.07	0.10	288.77
74	24	307.13	0.06	-4.12e-04	-2.31	0.0	-27.17	60.77	0.09	-0.06	0.02	282.41
		282.41	0.02	-2.04e-05	0.0	41.5	-26.52	58.45	0.09	-0.06	0.06	307.13

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
74	26	307.13	0.10	-4.12e-04	-2.31	0.0	-27.18	60.77	0.09	-0.07	0.06	282.41
		282.41	0.06	-2.53e-05	0.0	41.5	-26.52	58.45	0.09	-0.07	0.10	307.13
74	27	288.77	0.06	-3.88e-04	-2.31	0.0	-25.69	57.55	0.09	-0.06	0.02	265.38
		265.38	0.02	-2.02e-05	0.0	41.5	-25.03	55.23	0.09	-0.06	0.06	288.77
74	28	288.77	0.10	-3.88e-04	-2.31	0.0	-25.69	57.55	0.08	-0.07	0.06	265.38
		265.38	0.06	-2.51e-05	0.0	41.5	-25.03	55.23	0.08	-0.07	0.10	288.77
74	29	280.45	-93.96	-3.71e-04	-2.31	0.0	-13.69	54.02	-24.76	38.17	-93.96	258.49
		258.49	-103.98	3.93e-03	0.0	41.5	-13.04	51.71	-24.76	38.17	-103.98	280.45
74	36	297.09	104.18	-4.04e-04	-2.31	0.0	-37.68	61.08	24.93	-38.31	94.09	272.27
		272.27	94.09	-3.98e-03	0.0	41.5	-37.03	58.76	24.93	-38.31	104.18	297.09
74	69	290.40	-31.95	-3.73e-04	-2.31	0.0	8.53	53.18	-6.51	9.25	-31.95	268.79
		268.79	-34.48	9.34e-04	0.0	41.5	9.18	50.86	-6.51	9.25	-34.48	290.40
74	76	287.13	34.67	-4.02e-04	-2.31	0.0	-59.91	61.92	6.67	-9.39	32.08	261.97
		261.97	32.08	-9.85e-04	0.0	41.5	-59.25	59.60	6.67	-9.39	34.67	287.13
74	93	291.11	-48.82	-3.88e-04	-2.31	0.0	-20.67	57.40	-12.87	19.81	-48.82	267.79
		267.79	-54.05	2.02e-03	0.0	41.5	-20.01	55.08	-12.87	19.81	-54.05	291.11
74	96	286.42	54.24	-3.87e-04	-2.31	0.0	-30.71	57.70	13.04	-19.95	48.94	262.97
		262.97	48.94	-2.07e-03	0.0	41.5	-30.06	55.39	13.04	-19.95	54.24	286.42
74	113	296.26	-16.65	-3.90e-04	-2.31	0.0	-9.18	56.96	-3.31	4.72	-16.65	273.11
		273.11	-17.96	4.64e-04	0.0	41.5	-8.53	54.64	-3.31	4.72	-17.96	296.26
74	116	281.28	18.15	-3.86e-04	-2.31	0.0	-42.20	58.14	3.48	-4.85	16.78	257.65
		257.65	16.78	-5.15e-04	0.0	41.5	-41.54	55.82	3.48	-4.85	18.15	281.28
74	142	335.99	-26.57	-4.48e-04	-2.31	0.0	-23.70	67.99	-7.02	11.07	-26.57	308.40
		308.40	-29.52	1.11e-03	0.0	41.5	-23.04	65.67	-7.02	11.07	-29.52	335.99
74	147	241.55	29.71	-3.27e-04	-2.31	0.0	-27.68	47.11	7.19	-11.21	26.69	222.37
		222.37	26.69	-1.16e-03	0.0	41.5	-27.03	44.80	7.19	-11.21	29.71	241.55
74	157	288.77	0.06	-3.88e-04	-2.31	0.0	-25.69	57.55	0.09	-0.06	0.02	265.38
		265.38	0.02	-2.02e-05	0.0	41.5	-25.03	55.23	0.09	-0.06	0.06	288.77
74	158	288.77	0.10	-3.88e-04	-2.31	0.0	-25.69	57.55	0.08	-0.07	0.06	265.38
		265.38	0.06	-2.51e-05	0.0	41.5	-25.03	55.23	0.08	-0.07	0.10	288.77
75	5	377.27	0.21	7.75e-05	-1.32	0.0	-22.60	-46.57	-0.08	0.06	0.21	377.27
		365.80	0.19	1.05e-05	0.0	24.3	-22.97	-47.89	-0.08	0.06	0.19	365.80
75	7	377.27	0.29	7.75e-05	-1.32	0.0	-22.60	-46.57	-0.07	0.08	0.29	377.27
		365.80	0.27	1.71e-05	0.0	24.3	-22.97	-47.89	-0.07	0.08	0.27	365.80
75	9	670.09	0.32	1.37e-04	-1.72	0.0	-40.51	-84.68	-0.14	0.09	0.32	670.09
		649.31	0.29	1.50e-05	0.0	24.3	-41.00	-86.40	-0.14	0.09	0.29	649.31
75	11	670.09	0.38	1.37e-04	-1.72	0.0	-40.51	-84.68	-0.14	0.11	0.38	670.09
		649.31	0.34	1.95e-05	0.0	24.3	-41.00	-86.40	-0.14	0.11	0.34	649.31
75	15	377.27	0.21	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.09	0.06	0.21	377.27
		365.79	0.19	1.09e-05	0.0	24.3	-22.96	-47.90	-0.09	0.06	0.19	365.79
75	17	377.27	0.26	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.08	0.07	0.26	377.27
		365.79	0.24	1.52e-05	0.0	24.3	-22.96	-47.90	-0.08	0.07	0.24	365.79
75	19	497.04	0.24	1.02e-04	-1.32	0.0	-30.03	-62.66	-0.11	0.07	0.24	497.04
		481.65	0.22	1.12e-05	0.0	24.3	-30.40	-63.98	-0.11	0.07	0.22	481.65
75	21	497.03	0.28	1.02e-04	-1.32	0.0	-30.03	-62.66	-0.10	0.08	0.28	497.03
		481.65	0.25	1.43e-05	0.0	24.3	-30.40	-63.98	-0.10	0.08	0.25	481.65
75	22	377.27	0.21	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.09	0.06	0.21	377.27
		365.79	0.19	1.09e-05	0.0	24.3	-22.96	-47.90	-0.09	0.06	0.19	365.79
75	23	377.27	0.25	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.08	0.07	0.25	377.27
		365.79	0.23	1.39e-05	0.0	24.3	-22.96	-47.90	-0.08	0.07	0.23	365.79
75	24	401.22	0.22	8.24e-05	-1.32	0.0	-24.07	-49.79	-0.09	0.06	0.22	401.22
		388.97	0.20	1.09e-05	0.0	24.3	-24.45	-51.11	-0.09	0.06	0.20	388.97
75	26	401.22	0.25	8.24e-05	-1.32	0.0	-24.08	-49.79	-0.09	0.07	0.25	401.22
		388.96	0.23	1.35e-05	0.0	24.3	-24.45	-51.11	-0.09	0.07	0.23	388.96
75	27	377.27	0.21	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.09	0.06	0.21	377.27
		365.79	0.19	1.09e-05	0.0	24.3	-22.96	-47.90	-0.09	0.06	0.19	365.79
75	28	377.27	0.24	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.08	0.07	0.24	377.27
		365.79	0.22	1.35e-05	0.0	24.3	-22.96	-47.90	-0.08	0.07	0.22	365.79
75	45	356.20	-135.16	7.51e-05	-1.32	0.0	-28.38	-44.46	21.92	-39.82	-142.79	356.20
		345.22	-142.79	-1.53e-03	0.0	24.3	-28.75	-45.78	21.92	-39.82	-135.16	345.22
75	52	398.34	143.27	7.98e-05	-1.32	0.0	-16.80	-48.69	-22.08	39.95	143.27	398.34
		386.36	135.60	1.56e-03	0.0	24.3	-17.17	-50.01	-22.08	39.95	135.60	386.36
75	63	370.52	-36.12	6.94e-05	-1.32	0.0	7.43	-41.35	5.26	-9.25	-36.12	370.52
		360.30	-42.79	-2.68e-04	0.0	24.3	7.05	-42.67	5.26	-9.25	-42.79	360.30
75	66	384.02	43.23	8.55e-05	-1.32	0.0	-52.60	-51.80	-5.43	9.39	36.61	384.02
		371.29	36.61	2.95e-04	0.0	24.3	-52.98	-53.12	-5.43	9.39	43.23	371.29
75	101	375.69	-70.25	7.82e-05	-1.32	0.0	-26.80	-46.97	11.41	-20.70	-74.27	375.69
		364.12	-74.27	-7.87e-04	0.0	24.3	-27.17	-48.29	11.41	-20.70	-70.25	364.12
75	104	378.85	74.76	7.68e-05	-1.32	0.0	-18.38	-46.18	-11.57	20.84	74.76	378.85
		367.47	70.69	8.14e-04	0.0	24.3	-18.75	-47.50	-11.57	20.84	70.69	367.47
75	110	383.09	-18.56	7.52e-05	-1.32	0.0	-8.29	-45.36	2.65	-4.72	-18.56	383.09
		371.91	-22.22	-1.27e-04	0.0	24.3	-8.66	-46.68	2.65	-4.72	-22.22	371.91

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
75	111	371.45	22.67	7.97e-05	-1.32	0.0	-36.89	-47.79	-2.82	4.85	19.04	371.45
		359.68	19.04	1.54e-04	0.0	24.3	-37.26	-49.11	-2.82	4.85	22.67	359.68
75	128	440.73	-38.57	8.86e-05	-1.32	0.0	-22.11	-55.46	6.06	-11.07	-38.57	440.73
		427.14	-39.48	-4.00e-04	0.0	24.3	-22.48	-56.78	6.06	-11.07	-39.48	427.14
75	129	313.80	39.93	6.64e-05	-1.32	0.0	-23.07	-37.69	-6.23	11.21	39.05	313.80
		304.44	39.05	4.27e-04	0.0	24.3	-23.44	-39.01	-6.23	11.21	39.93	304.44
75	157	377.27	0.21	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.09	0.06	0.21	377.27
		365.79	0.19	1.09e-05	0.0	24.3	-22.96	-47.90	-0.09	0.06	0.19	365.79
75	158	377.27	0.24	7.75e-05	-1.32	0.0	-22.59	-46.57	-0.08	0.07	0.24	377.27
		365.79	0.22	1.35e-05	0.0	24.3	-22.96	-47.90	-0.08	0.07	0.22	365.79
76	4	410.02	0.98	2.18e-03	-7.83	0.0	-55.44	-145.19	0.80	0.11	0.12	410.02
		249.12	0.12	1.07e-04	0.0	107.9	-57.65	-153.02	0.80	0.11	0.98	249.12
76	5	266.11	0.46	1.42e-03	-6.02	0.0	-35.83	-93.42	0.40	0.06	0.03	266.11
		162.06	0.03	5.29e-05	0.0	107.9	-37.53	-99.44	0.40	0.06	0.46	162.06
76	7	266.11	0.82	1.42e-03	-6.02	0.0	-35.83	-93.42	0.64	0.08	0.13	266.11
		162.06	0.13	8.68e-05	0.0	107.9	-37.53	-99.44	0.64	0.08	0.82	162.06
76	9	474.11	0.63	2.52e-03	-7.83	0.0	-64.31	-168.94	0.57	0.09	0.01	474.11
		287.59	0.01	7.46e-05	0.0	107.9	-66.52	-176.77	0.57	0.09	0.63	287.59
76	11	474.11	0.88	2.52e-03	-7.83	0.0	-64.31	-168.94	0.74	0.11	0.08	474.11
		287.59	0.08	9.84e-05	0.0	107.9	-66.53	-176.77	0.74	0.11	0.88	287.59
76	15	266.11	0.47	1.42e-03	-6.02	0.0	-35.82	-93.42	0.41	0.06	0.02	266.11
		162.06	0.02	5.40e-05	0.0	107.9	-37.52	-99.44	0.41	0.06	0.47	162.06
76	17	266.11	0.71	1.42e-03	-6.02	0.0	-35.82	-93.42	0.58	0.07	0.09	266.11
		162.06	0.09	7.67e-05	0.0	107.9	-37.52	-99.44	0.58	0.07	0.71	162.06
76	18	308.83	0.71	1.64e-03	-6.02	0.0	-41.74	-109.25	0.58	0.08	0.09	308.83
		187.70	0.09	7.77e-05	0.0	107.9	-43.44	-115.27	0.58	0.08	0.71	187.70
76	19	351.56	0.47	1.87e-03	-6.02	0.0	-47.66	-125.08	0.42	0.07	0.02	351.56
		213.34	0.02	5.62e-05	0.0	107.9	-49.36	-131.11	0.42	0.07	0.47	213.34
76	21	351.55	0.64	1.87e-03	-6.02	0.0	-47.66	-125.08	0.54	0.08	0.06	351.55
		213.34	0.06	7.20e-05	0.0	107.9	-49.36	-131.11	0.54	0.08	0.64	213.34
76	22	266.11	0.47	1.42e-03	-6.02	0.0	-35.82	-93.42	0.41	0.06	0.02	266.11
		162.06	0.02	5.40e-05	0.0	107.9	-37.52	-99.44	0.41	0.06	0.47	162.06
76	23	266.11	0.64	1.42e-03	-6.02	0.0	-35.82	-93.42	0.53	0.07	0.07	266.11
		162.06	0.07	6.99e-05	0.0	107.9	-37.52	-99.44	0.53	0.07	0.64	162.06
76	24	283.20	0.47	1.51e-03	-6.02	0.0	-38.19	-99.75	0.42	0.06	0.02	283.20
		172.31	0.02	5.44e-05	0.0	107.9	-39.89	-105.77	0.42	0.06	0.47	172.31
76	26	283.20	0.61	1.51e-03	-6.02	0.0	-38.19	-99.75	0.51	0.07	0.06	283.20
		172.31	0.06	6.80e-05	0.0	107.9	-39.89	-105.77	0.51	0.07	0.61	172.31
76	27	266.11	0.47	1.42e-03	-6.02	0.0	-35.82	-93.42	0.41	0.06	0.02	266.11
		162.06	0.02	5.40e-05	0.0	107.9	-37.52	-99.44	0.41	0.06	0.47	162.06
76	28	266.11	0.61	1.42e-03	-6.02	0.0	-35.82	-93.42	0.51	0.07	0.06	266.11
		162.06	0.06	6.76e-05	0.0	107.9	-37.52	-99.44	0.51	0.07	0.61	162.06
76	47	259.19	-52.99	1.36e-03	-6.02	0.0	-18.02	-90.35	36.88	-38.17	-93.96	259.19
		158.43	-93.96	-0.01	0.0	107.9	-19.72	-96.37	36.88	-38.17	-52.99	158.43
76	50	273.03	94.09	1.47e-03	-6.02	0.0	-53.62	-96.49	-35.86	38.31	94.09	273.03
		165.68	54.22	0.01	0.0	107.9	-55.32	-102.51	-35.86	38.31	54.22	165.68
76	63	269.49	-18.59	1.38e-03	-6.02	0.0	18.32	-93.51	8.63	-9.25	-31.95	269.49
		165.31	-31.95	-2.64e-03	0.0	107.9	16.62	-99.53	8.63	-9.25	-18.59	165.31
76	66	262.73	32.08	1.45e-03	-6.02	0.0	-89.96	-93.32	-7.61	9.39	32.08	262.73
		158.80	19.81	2.78e-03	0.0	107.9	-91.67	-99.35	-7.61	9.39	19.81	158.80
76	102	268.50	-27.22	1.42e-03	-6.02	0.0	-27.66	-94.16	19.50	-19.81	-48.82	268.50
		163.66	-48.82	-5.61e-03	0.0	107.9	-29.37	-100.18	19.50	-19.81	-27.22	163.66
76	103	263.71	48.94	1.41e-03	-6.02	0.0	-43.97	-92.68	-18.48	19.95	48.94	263.71
		160.46	28.45	5.75e-03	0.0	107.9	-45.68	-98.70	-18.48	19.95	28.45	160.46
76	110	273.82	-9.42	1.43e-03	-6.02	0.0	-8.88	-95.79	4.74	-4.72	-16.65	273.82
		167.21	-16.65	-1.31e-03	0.0	107.9	-10.58	-101.81	4.74	-4.72	-9.42	167.21
76	111	258.39	16.78	1.40e-03	-6.02	0.0	-62.76	-91.05	-3.72	4.85	16.78	258.39
		156.90	10.65	1.45e-03	0.0	107.9	-64.46	-97.07	-3.72	4.85	10.65	156.90
76	128	309.12	-14.74	1.64e-03	-6.02	0.0	-26.90	-109.79	10.38	-11.07	-26.57	309.12
		187.47	-26.57	-3.05e-03	0.0	107.9	-28.61	-115.82	10.38	-11.07	-14.74	187.47
76	129	223.10	26.69	1.19e-03	-6.02	0.0	-44.73	-77.04	-9.36	11.21	26.69	223.10
		136.65	15.97	3.19e-03	0.0	107.9	-46.44	-83.06	-9.36	11.21	15.97	136.65
76	157	266.11	0.47	1.42e-03	-6.02	0.0	-35.82	-93.42	0.41	0.06	0.02	266.11
		162.06	0.02	5.40e-05	0.0	107.9	-37.52	-99.44	0.41	0.06	0.47	162.06
76	158	266.11	0.61	1.42e-03	-6.02	0.0	-35.82	-93.42	0.51	0.07	0.06	266.11
		162.06	0.06	6.76e-05	0.0	107.9	-37.52	-99.44	0.51	0.07	0.61	162.06
77	3	70.69	1.84	1.02e-03	-2.10	0.0	-66.00	-190.28	-4.97	0.10	1.84	70.69
		0.0	0.0	4.81e-05	0.0	36.9	-66.59	-192.38	-4.97	0.10	0.0	0.0
77	4	84.13	1.85	1.21e-03	-2.10	0.0	-78.45	-226.66	-5.00	0.11	1.85	84.13
		0.0	0.0	4.87e-05	0.0	36.9	-79.04	-228.76	-5.00	0.11	0.0	0.0
77	5	54.37	0.89	7.85e-04	-1.62	0.0	-50.78	-146.36	-2.40	0.06	0.89	54.37
		0.0	0.0	2.38e-05	0.0	36.9	-51.24	-147.98	-2.40	0.06	0.0	0.0

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
77	9	97.57	1.23	1.39e-03	-2.10	0.0	-90.89	-263.03	-3.34	0.09	1.23	97.57
		0.0	0.0	3.34e-05	0.0	36.9	-91.48	-265.14	-3.34	0.09	0.0	0.0
77	11	97.57	1.67	1.39e-03	-2.10	0.0	-90.89	-263.03	-4.52	0.11	1.67	97.57
		0.0	0.0	4.45e-05	0.0	36.9	-91.49	-265.14	-4.52	0.11	0.0	0.0
77	15	54.38	0.91	7.85e-04	-1.62	0.0	-50.77	-146.37	-2.47	0.06	0.91	54.38
		0.0	0.0	2.43e-05	0.0	36.9	-51.23	-147.98	-2.47	0.06	0.0	0.0
77	17	54.38	1.33	7.85e-04	-1.62	0.0	-50.78	-146.37	-3.59	0.07	1.33	54.38
		0.0	0.0	3.49e-05	0.0	36.9	-51.23	-147.98	-3.59	0.07	0.0	0.0
77	18	63.34	1.33	9.09e-04	-1.62	0.0	-59.07	-170.62	-3.61	0.08	1.33	63.34
		0.0	0.0	3.53e-05	0.0	36.9	-59.53	-172.24	-3.61	0.08	0.0	0.0
77	19	72.30	0.93	1.03e-03	-1.62	0.0	-67.37	-194.87	-2.51	0.07	0.93	72.30
		0.0	0.0	2.51e-05	0.0	36.9	-67.83	-196.49	-2.51	0.07	0.0	0.0
77	21	72.30	1.22	1.03e-03	-1.62	0.0	-67.37	-194.87	-3.29	0.08	1.22	72.30
		0.0	0.0	3.26e-05	0.0	36.9	-67.83	-196.49	-3.29	0.08	0.0	0.0
77	22	54.38	0.91	7.85e-04	-1.62	0.0	-50.77	-146.37	-2.47	0.06	0.91	54.38
		0.0	0.0	2.43e-05	0.0	36.9	-51.23	-147.98	-2.47	0.06	0.0	0.0
77	23	54.38	1.20	7.85e-04	-1.62	0.0	-50.78	-146.37	-3.26	0.07	1.20	54.38
		0.0	0.0	3.18e-05	0.0	36.9	-51.23	-147.98	-3.26	0.07	0.0	0.0
77	24	57.96	0.92	8.35e-04	-1.62	0.0	-54.09	-156.07	-2.48	0.06	0.92	57.96
		0.0	0.0	2.45e-05	0.0	36.9	-54.55	-157.68	-2.48	0.06	0.0	0.0
77	26	57.96	1.16	8.35e-04	-1.62	0.0	-54.09	-156.07	-3.15	0.07	1.16	57.96
		0.0	0.0	3.09e-05	0.0	36.9	-54.55	-157.68	-3.15	0.07	0.0	0.0
77	27	54.38	0.91	7.85e-04	-1.62	0.0	-50.77	-146.37	-2.47	0.06	0.91	54.38
		0.0	0.0	2.43e-05	0.0	36.9	-51.23	-147.98	-2.47	0.06	0.0	0.0
77	28	54.38	1.16	7.85e-04	-1.62	0.0	-50.78	-146.37	-3.14	0.07	1.16	54.38
		0.0	0.0	3.07e-05	0.0	36.9	-51.23	-147.98	-3.14	0.07	0.0	0.0
77	47	53.84	0.0	7.65e-04	-1.62	0.0	-25.49	-144.92	32.59	-38.17	-12.04	53.84
		0.0	-12.04	-3.26e-03	0.0	36.9	-25.94	-146.54	32.59	-38.17	0.0	0.0
77	50	54.91	14.36	8.04e-04	-1.62	0.0	-76.06	-147.81	-38.88	38.31	14.36	54.91
		0.0	0.0	3.32e-03	0.0	36.9	-76.52	-149.43	-38.88	38.31	0.0	0.0
77	61	48.19	0.35	7.26e-04	-1.62	0.0	-126.41	-129.62	-0.94	-14.74	0.35	48.19
		0.0	0.0	-9.75e-04	0.0	36.9	-126.87	-131.24	-0.94	-14.74	0.0	0.0
77	63	56.86	0.0	7.86e-04	-1.62	0.0	28.69	-153.09	14.11	-9.25	-5.21	56.86
		0.0	-5.21	-6.49e-04	0.0	36.9	28.23	-154.71	14.11	-9.25	0.0	0.0
77	66	51.89	7.54	7.83e-04	-1.62	0.0	-130.24	-139.64	-20.40	9.39	7.54	51.89
		0.0	0.0	7.11e-04	0.0	36.9	-130.69	-141.26	-20.40	9.39	0.0	0.0
77	102	55.06	0.0	7.90e-04	-1.62	0.0	-38.66	-148.22	15.20	-19.81	-5.62	55.06
		0.0	-5.62	-1.63e-03	0.0	36.9	-39.12	-149.83	15.20	-19.81	0.0	0.0
77	103	53.69	7.94	7.80e-04	-1.62	0.0	-62.89	-144.52	-21.49	19.95	7.94	53.69
		0.0	0.0	1.69e-03	0.0	36.9	-63.35	-146.13	-21.49	19.95	0.0	0.0
77	109	52.14	0.88	7.69e-04	-1.62	0.0	-90.84	-140.31	-2.38	-7.70	0.88	52.14
		0.0	0.0	-4.77e-04	0.0	36.9	-91.29	-141.93	-2.38	-7.70	0.0	0.0
77	110	56.62	0.0	8.00e-04	-1.62	0.0	-10.66	-152.44	5.77	-4.72	-2.13	56.62
		0.0	-2.13	-3.01e-04	0.0	36.9	-11.12	-154.06	5.77	-4.72	0.0	0.0
77	111	52.13	4.46	7.69e-04	-1.62	0.0	-90.89	-140.29	-12.06	4.85	4.46	52.13
		0.0	0.0	3.62e-04	0.0	36.9	-91.35	-141.91	-12.06	4.85	0.0	0.0
77	128	61.87	0.0	8.90e-04	-1.62	0.0	-33.65	-166.66	7.09	-11.07	-2.62	61.87
		0.0	-2.62	-7.68e-04	0.0	36.9	-34.11	-168.28	7.09	-11.07	0.0	0.0
77	157	54.38	0.91	7.85e-04	-1.62	0.0	-50.77	-146.37	-2.47	0.06	0.91	54.38
		0.0	0.0	2.43e-05	0.0	36.9	-51.23	-147.98	-2.47	0.06	0.0	0.0
77	158	54.38	1.16	7.85e-04	-1.62	0.0	-50.78	-146.37	-3.14	0.07	1.16	54.38
		0.0	0.0	3.07e-05	0.0	36.9	-51.23	-147.98	-3.14	0.07	0.0	0.0
78	3	72.51	1.86	-1.05e-03	-2.10	0.0	-68.00	197.30	5.02	-0.11	0.0	0.0
		0.0	0.0	-4.64e-05	0.0	36.9	-67.41	195.19	5.02	-0.11	1.86	72.51
78	4	86.37	1.86	-1.25e-03	-2.10	0.0	-80.85	234.82	5.02	-0.11	0.0	0.0
		0.0	0.0	-4.69e-05	0.0	36.9	-80.25	232.72	5.02	-0.11	1.86	86.37
78	5	55.76	0.89	-8.10e-04	-1.62	0.0	-52.43	151.73	2.40	-0.06	0.0	0.0
		0.0	0.0	-2.31e-05	0.0	36.9	-51.97	150.12	2.40	-0.06	0.89	55.76
78	7	55.76	1.53	-8.10e-04	-1.62	0.0	-52.43	151.73	4.14	-0.09	0.0	0.0
		0.0	0.0	-3.81e-05	0.0	36.9	-51.97	150.12	4.14	-0.09	1.53	55.76
78	9	100.23	1.21	-1.44e-03	-2.10	0.0	-93.69	272.34	3.29	-0.10	0.0	0.0
		0.0	0.0	-3.24e-05	0.0	36.9	-93.09	270.24	3.29	-0.10	1.21	100.23
78	11	100.23	1.66	-1.44e-03	-2.10	0.0	-93.69	272.34	4.50	-0.11	0.0	0.0
		0.0	0.0	-4.29e-05	0.0	36.9	-93.09	270.24	4.50	-0.11	1.66	100.23
78	15	55.77	0.91	-8.10e-04	-1.62	0.0	-52.36	151.75	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.36e-05	0.0	36.9	-51.90	150.14	2.47	-0.06	0.91	55.77
78	17	55.77	1.34	-8.10e-04	-1.62	0.0	-52.36	151.75	3.63	-0.08	0.0	0.0
		0.0	0.0	-3.37e-05	0.0	36.9	-51.90	150.14	3.63	-0.08	1.34	55.77
78	18	65.01	1.34	-9.40e-04	-1.62	0.0	-60.92	176.77	3.63	-0.08	0.0	0.0
		0.0	0.0	-3.40e-05	0.0	36.9	-60.46	175.15	3.63	-0.08	1.34	65.01
78	19	74.25	0.91	-1.07e-03	-1.62	0.0	-69.48	201.78	2.47	-0.07	0.0	0.0
		0.0	0.0	-2.44e-05	0.0	36.9	-69.03	200.16	2.47	-0.07	0.91	74.25

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
78	21	74.25	1.21	-1.07e-03	-1.62	0.0	-69.48	201.78	3.28	-0.08	0.0	0.0
		0.0	0.0	-3.14e-05	0.0	36.9	-69.03	200.16	3.28	-0.08	1.21	74.25
78	22	55.77	0.91	-8.10e-04	-1.62	0.0	-52.36	151.75	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.36e-05	0.0	36.9	-51.90	150.14	2.47	-0.06	0.91	55.77
78	23	55.77	1.21	-8.10e-04	-1.62	0.0	-52.36	151.75	3.28	-0.07	0.0	0.0
		0.0	0.0	-3.07e-05	0.0	36.9	-51.90	150.14	3.28	-0.07	1.21	55.77
78	24	59.47	0.91	-8.62e-04	-1.62	0.0	-55.79	161.76	2.47	-0.07	0.0	0.0
		0.0	0.0	-2.38e-05	0.0	36.9	-55.33	160.14	2.47	-0.07	0.91	59.47
78	26	59.47	1.17	-8.62e-04	-1.62	0.0	-55.79	161.76	3.17	-0.07	0.0	0.0
		0.0	0.0	-2.98e-05	0.0	36.9	-55.33	160.14	3.17	-0.07	1.17	59.47
78	27	55.77	0.91	-8.10e-04	-1.62	0.0	-52.36	151.75	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.36e-05	0.0	36.9	-51.90	150.14	2.47	-0.06	0.91	55.77
78	28	55.77	1.17	-8.10e-04	-1.62	0.0	-52.36	151.75	3.17	-0.07	0.0	0.0
		0.0	0.0	-2.97e-05	0.0	36.9	-51.90	150.14	3.17	-0.07	1.17	55.77
78	29	54.88	0.0	-7.87e-04	-1.62	0.0	-31.02	149.34	-32.04	38.14	0.0	0.0
		0.0	-11.84	3.25e-03	0.0	36.9	-30.56	147.72	-32.04	38.14	-11.84	54.88
78	36	56.66	14.18	-8.34e-04	-1.62	0.0	-73.70	154.17	38.38	-38.28	0.0	0.0
		0.0	0.0	-3.31e-03	0.0	36.9	-73.25	152.55	38.38	-38.28	14.18	56.66
78	61	57.40	0.0	-8.04e-04	-1.62	0.0	14.14	156.18	-14.25	8.90	0.0	0.0
		0.0	-5.27	8.03e-04	0.0	36.9	14.60	154.56	-14.25	8.90	-5.27	57.40
78	68	54.13	7.61	-8.16e-04	-1.62	0.0	-118.87	147.33	20.59	-9.04	0.0	0.0
		0.0	0.0	-8.63e-04	0.0	36.9	-118.41	145.71	20.59	-9.04	7.61	54.13
78	89	57.12	2.43	-8.02e-04	-1.62	0.0	9.29	155.41	6.57	-14.05	0.0	0.0
		0.0	0.0	-9.92e-04	0.0	36.9	9.74	153.79	6.57	-14.05	2.43	57.12
78	93	56.33	0.0	-8.14e-04	-1.62	0.0	-42.32	153.28	-14.99	19.79	0.0	0.0
		0.0	-5.54	1.63e-03	0.0	36.9	-41.86	151.66	-14.99	19.79	-5.54	56.33
78	96	55.21	7.88	-8.06e-04	-1.62	0.0	-62.41	150.23	21.32	-19.94	0.0	0.0
		0.0	0.0	-1.69e-03	0.0	36.9	-61.95	148.61	21.32	-19.94	7.88	55.21
78	109	57.64	0.0	-8.23e-04	-1.62	0.0	-18.96	156.81	-5.90	4.53	0.0	0.0
		0.0	-2.18	3.85e-04	0.0	36.9	-18.50	155.20	-5.90	4.53	-2.18	57.64
78	112	53.90	4.52	-7.98e-04	-1.62	0.0	-85.76	146.69	12.23	-4.67	0.0	0.0
		0.0	0.0	-4.45e-04	0.0	36.9	-85.31	145.07	12.23	-4.67	4.52	53.90
78	123	57.48	1.83	-8.22e-04	-1.62	0.0	-21.63	156.39	4.96	-7.40	0.0	0.0
		0.0	0.0	-5.13e-04	0.0	36.9	-21.17	154.77	4.96	-7.40	1.83	57.48
78	126	63.46	0.0	-9.21e-04	-1.62	0.0	-39.36	172.56	-8.00	10.73	0.0	0.0
		0.0	-2.96	9.23e-04	0.0	36.9	-38.90	170.95	-8.00	10.73	-2.96	63.46
78	157	55.77	0.91	-8.10e-04	-1.62	0.0	-52.36	151.75	2.47	-0.06	0.0	0.0
		0.0	0.0	-2.36e-05	0.0	36.9	-51.90	150.14	2.47	-0.06	0.91	55.77
78	158	55.77	1.17	-8.10e-04	-1.62	0.0	-52.36	151.75	3.17	-0.07	0.0	0.0
		0.0	0.0	-2.97e-05	0.0	36.9	-51.90	150.14	3.17	-0.07	1.17	55.77
79	5	390.35	0.22	1.88e-04	-6.81	0.0	-8.86	2.50	0.0	0.06	0.22	389.77
		388.65	0.22	5.15e-05	0.0	125.1	-10.78	-4.30	0.0	0.06	0.22	388.65
79	7	390.35	0.31	1.88e-04	-6.81	0.0	-8.86	2.50	1.00e-06	0.09	0.31	389.77
		388.65	0.31	8.48e-05	0.0	125.1	-10.78	-4.30	1.00e-06	0.09	0.31	388.65
79	9	693.39	0.34	3.33e-04	-8.85	0.0	-15.52	4.38	1.60e-06	0.10	0.34	692.03
		691.98	0.34	7.24e-05	0.0	125.1	-18.02	-4.46	1.60e-06	0.10	0.34	691.98
79	11	693.39	0.40	3.33e-04	-8.85	0.0	-15.52	4.38	1.69e-06	0.11	0.40	692.03
		691.98	0.40	9.57e-05	0.0	125.1	-18.02	-4.46	1.69e-06	0.11	0.40	691.98
79	15	390.45	0.22	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.06	0.22	389.88
		388.73	0.22	5.30e-05	0.0	125.1	-10.72	-4.32	0.0	0.06	0.22	388.73
79	17	390.45	0.28	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.08	0.28	389.88
		388.73	0.28	7.52e-05	0.0	125.1	-10.72	-4.32	0.0	0.08	0.28	388.73
79	19	514.24	0.26	2.47e-04	-6.81	0.0	-11.57	3.27	1.18e-06	0.07	0.26	513.26
		513.09	0.26	5.43e-05	0.0	125.1	-13.49	-3.54	1.18e-06	0.07	0.26	513.09
79	21	514.24	0.30	2.47e-04	-6.81	0.0	-11.57	3.27	1.24e-06	0.08	0.30	513.26
		513.09	0.30	6.98e-05	0.0	125.1	-13.49	-3.54	1.24e-06	0.08	0.30	513.09
79	22	390.45	0.22	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.06	0.22	389.88
		388.73	0.22	5.30e-05	0.0	125.1	-10.72	-4.32	0.0	0.06	0.22	388.73
79	23	390.45	0.26	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.07	0.26	389.88
		388.73	0.26	6.85e-05	0.0	125.1	-10.72	-4.32	0.0	0.07	0.26	388.73
79	24	415.20	0.23	2.00e-04	-6.81	0.0	-9.35	2.64	0.0	0.07	0.23	414.56
		413.60	0.23	5.32e-05	0.0	125.1	-11.27	-4.17	0.0	0.07	0.23	413.60
79	26	415.20	0.26	2.00e-04	-6.81	0.0	-9.35	2.64	1.00e-06	0.07	0.26	414.56
		413.60	0.26	6.66e-05	0.0	125.1	-11.27	-4.17	1.00e-06	0.07	0.26	413.60
79	27	390.45	0.22	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.06	0.22	389.88
		388.73	0.22	5.30e-05	0.0	125.1	-10.72	-4.32	0.0	0.06	0.22	388.73
79	28	390.45	0.26	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.07	0.26	389.88
		388.73	0.26	6.63e-05	0.0	125.1	-10.72	-4.32	0.0	0.07	0.26	388.73
79	47	372.53	-140.11	1.71e-04	-6.81	0.0	-4.87	5.66	-2.01	-38.14	-140.11	369.80
		369.80	-142.72	-4.96e-03	0.0	125.1	-6.80	-1.15	-2.01	-38.14	-142.72	372.36
79	50	409.96	143.24	2.04e-04	-6.81	0.0	-12.72	-0.69	2.01	38.28	140.63	409.96
		405.10	140.63	5.10e-03	0.0	125.1	-14.64	-7.50	2.01	38.28	143.24	405.10

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
79	102	391.11	-72.81	1.84e-04	-6.81	0.0	-8.24	3.64	-1.09	-19.79	-72.81	389.89
		389.89	-74.23	-2.53e-03	0.0	125.1	-10.17	-3.17	-1.09	-19.79	-74.23	390.19
79	103	390.03	74.74	1.91e-04	-6.81	0.0	-9.35	1.33	1.09	19.94	73.33	389.87
		387.27	73.33	2.66e-03	0.0	125.1	-11.27	-5.48	1.09	19.94	74.74	387.27
79	114	393.59	-22.05	1.76e-04	-6.81	0.0	-6.97	6.35	0.96	-4.53	-22.05	389.88
		389.88	-24.07	-1.98e-04	0.0	125.1	-8.89	-0.46	0.96	-4.53	-24.07	393.57
79	115	389.88	24.59	2.00e-04	-6.81	0.0	-10.62	-1.38	-0.96	4.67	22.56	389.88
		383.89	22.56	3.31e-04	0.0	125.1	-12.54	-8.19	-0.96	4.67	24.59	383.89
79	143	327.55	-42.27	1.49e-04	-6.81	0.0	1.78	7.86	-0.02	-10.88	-42.27	322.89
		322.89	-43.71	-1.23e-03	0.0	125.1	-0.14	1.05	-0.02	-10.88	-43.71	327.55
79	144	457.38	-41.71	2.12e-04	-6.81	0.0	-17.25	1.59	-0.09	-10.73	-41.71	456.88
		455.53	-43.21	-1.22e-03	0.0	125.1	-19.18	-5.22	-0.09	-10.73	-43.21	455.53
79	145	323.52	43.73	1.63e-04	-6.81	0.0	-0.34	3.38	0.09	10.87	42.23	322.88
		321.93	42.23	1.35e-03	0.0	125.1	-2.26	-3.43	0.09	10.87	43.73	321.93
79	146	456.87	44.22	2.26e-04	-6.81	0.0	-19.37	-2.89	0.02	11.03	42.79	456.87
		449.91	42.79	1.36e-03	0.0	125.1	-21.30	-9.70	0.02	11.03	44.22	449.91
79	157	390.45	0.22	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.06	0.22	389.88
		388.73	0.22	5.30e-05	0.0	125.1	-10.72	-4.32	0.0	0.06	0.22	388.73
79	158	390.45	0.26	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.07	0.26	389.88
		388.73	0.26	6.63e-05	0.0	125.1	-10.72	-4.32	0.0	0.07	0.26	388.73
80	5	388.66	0.22	-7.98e-05	-1.32	0.0	-23.46	49.19	0.13	-0.06	0.19	376.87
		376.87	0.19	-1.07e-05	0.0	24.3	-23.09	47.87	0.13	-0.06	0.22	388.66
80	7	388.66	0.31	-7.98e-05	-1.32	0.0	-23.46	49.19	0.17	-0.09	0.27	376.87
		376.87	0.27	-1.75e-05	0.0	24.3	-23.09	47.87	0.17	-0.09	0.31	388.66
80	9	692.01	0.34	-1.42e-04	-1.72	0.0	-41.87	88.88	0.20	-0.10	0.29	670.63
		670.63	0.29	-1.52e-05	0.0	24.3	-41.38	87.16	0.20	-0.10	0.34	692.01
80	11	692.01	0.40	-1.42e-04	-1.72	0.0	-41.87	88.88	0.23	-0.11	0.34	670.63
		670.63	0.34	-1.99e-05	0.0	24.3	-41.38	87.16	0.23	-0.11	0.40	692.01
80	15	388.75	0.22	-7.99e-05	-1.32	0.0	-23.40	49.21	0.13	-0.06	0.19	376.95
		376.95	0.19	-1.10e-05	0.0	24.3	-23.02	47.89	0.13	-0.06	0.22	388.75
80	17	388.75	0.28	-7.99e-05	-1.32	0.0	-23.40	49.21	0.16	-0.08	0.24	376.95
		376.95	0.24	-1.55e-05	0.0	24.3	-23.02	47.89	0.16	-0.08	0.28	388.75
80	19	513.12	0.26	-1.05e-04	-1.32	0.0	-31.07	65.80	0.15	-0.07	0.22	497.29
		497.29	0.22	-1.14e-05	0.0	24.3	-30.70	64.48	0.15	-0.07	0.26	513.12
80	21	513.12	0.30	-1.05e-04	-1.32	0.0	-31.07	65.80	0.17	-0.08	0.26	497.29
		497.29	0.26	-1.45e-05	0.0	24.3	-30.70	64.48	0.17	-0.08	0.30	513.12
80	22	388.75	0.22	-7.99e-05	-1.32	0.0	-23.40	49.21	0.13	-0.06	0.19	376.95
		376.95	0.19	-1.10e-05	0.0	24.3	-23.02	47.89	0.13	-0.06	0.22	388.75
80	23	388.75	0.26	-7.99e-05	-1.32	0.0	-23.40	49.21	0.15	-0.07	0.23	376.95
		376.95	0.23	-1.42e-05	0.0	24.3	-23.02	47.89	0.15	-0.07	0.26	388.75
80	24	413.62	0.23	-8.49e-05	-1.32	0.0	-24.93	52.53	0.14	-0.07	0.20	401.02
		401.02	0.20	-1.11e-05	0.0	24.3	-24.56	51.20	0.14	-0.07	0.23	413.62
80	26	413.62	0.26	-8.49e-05	-1.32	0.0	-24.93	52.53	0.15	-0.07	0.23	401.02
		401.02	0.23	-1.38e-05	0.0	24.3	-24.56	51.20	0.15	-0.07	0.26	413.62
80	27	388.75	0.22	-7.99e-05	-1.32	0.0	-23.40	49.21	0.13	-0.06	0.19	376.95
		376.95	0.19	-1.10e-05	0.0	24.3	-23.02	47.89	0.13	-0.06	0.22	388.75
80	28	388.75	0.26	-7.99e-05	-1.32	0.0	-23.40	49.21	0.15	-0.07	0.22	376.95
		376.95	0.22	-1.37e-05	0.0	24.3	-23.02	47.89	0.15	-0.07	0.26	388.75
80	29	372.37	-137.77	-7.48e-05	-1.32	0.0	-14.05	45.56	-20.65	38.14	-137.77	361.45
		361.45	-142.72	1.41e-03	0.0	24.3	-13.67	44.24	-20.65	38.14	-142.72	372.37
80	36	405.12	143.24	-8.50e-05	-1.32	0.0	-32.75	52.85	20.95	-38.28	138.21	392.46
		392.46	138.21	-1.44e-03	0.0	24.3	-32.37	51.53	20.95	-38.28	143.24	405.12
80	61	378.90	-45.20	-7.21e-05	-1.32	0.0	2.04	44.19	-4.82	8.90	-45.20	368.31
		368.31	-46.35	2.40e-04	0.0	24.3	2.42	42.87	-4.82	8.90	-46.35	378.90
80	68	398.60	46.86	-8.76e-05	-1.32	0.0	-48.84	54.22	5.12	-9.04	45.64	385.60
		385.60	45.64	-2.67e-04	0.0	24.3	-48.46	52.90	5.12	-9.04	46.86	398.60
80	93	390.21	-71.66	-7.93e-05	-1.32	0.0	-19.82	48.91	-10.69	19.79	-71.66	378.49
		378.49	-74.23	7.24e-04	0.0	24.3	-19.44	47.58	-10.69	19.79	-74.23	390.21
80	96	387.29	74.74	-8.04e-05	-1.32	0.0	-26.98	49.51	10.99	-19.94	72.10	375.42
		375.42	72.10	-7.52e-04	0.0	24.3	-26.60	48.19	10.99	-19.94	74.74	387.29
80	109	393.58	-23.50	-7.79e-05	-1.32	0.0	-11.50	48.20	-2.38	4.53	-23.50	382.03
		382.03	-24.07	1.13e-04	0.0	24.3	-11.12	46.87	-2.38	4.53	-24.07	393.58
80	112	383.91	24.59	-8.18e-05	-1.32	0.0	-35.30	50.22	2.68	-4.67	23.95	371.87
		371.87	23.95	-1.40e-04	0.0	24.3	-34.92	48.90	2.68	-4.67	24.59	383.91
80	126	455.56	-41.87	-9.20e-05	-1.32	0.0	-24.58	58.82	-5.51	10.73	-41.87	441.47
		441.47	-43.21	3.72e-04	0.0	24.3	-24.20	57.50	-5.51	10.73	-43.21	455.56
80	131	321.94	43.73	-6.78e-05	-1.32	0.0	-22.22	39.59	5.81	-10.87	42.31	312.44
		312.44	42.31	-4.00e-04	0.0	24.3	-21.84	38.27	5.81	-10.87	43.73	321.94
80	157	388.75	0.22	-7.99e-05	-1.32	0.0	-23.40	49.21	0.13	-0.06	0.19	376.95
		376.95	0.19	-1.10e-05	0.0	24.3	-23.02	47.89	0.13	-0.06	0.22	388.75
80	158	388.75	0.26	-7.99e-05	-1.32	0.0	-23.40	49.21	0.15	-0.07	0.22	376.95
		376.95	0.22	-1.37e-05	0.0	24.3	-23.02	47.89	0.15	-0.07	0.26	388.75

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
81	1	490.12	0.25	1.18e-03	-9.54	0.0	-30.35	-63.99	-0.18	0.08	0.25	490.12
		387.41	-0.01	9.42e-05	0.0	149.4	-33.04	-73.53	-0.18	0.08	-0.01	387.41
81	5	376.87	0.19	9.07e-04	-7.34	0.0	-23.46	-49.19	-0.13	0.06	0.19	376.87
		297.92	-4.57e-03	6.93e-05	0.0	149.4	-25.53	-56.53	-0.13	0.06	-4.57e-03	297.92
81	7	376.87	0.27	9.07e-04	-7.34	0.0	-23.46	-49.19	-0.17	0.09	0.27	376.87
		297.92	5.79e-03	1.12e-04	0.0	149.4	-25.53	-56.53	-0.17	0.09	5.79e-03	297.92
81	9	670.63	0.29	1.61e-03	-9.54	0.0	-41.87	-88.88	-0.20	0.10	0.29	670.63
		530.74	-1.00e-02	9.84e-05	0.0	149.4	-44.56	-98.42	-0.20	0.10	-1.00e-02	530.74
81	11	670.63	0.34	1.61e-03	-9.54	0.0	-41.87	-88.88	-0.23	0.11	0.34	670.63
		530.74	-2.74e-03	1.28e-04	0.0	149.4	-44.56	-98.42	-0.23	0.11	-2.74e-03	530.74
81	15	376.95	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.13	0.06	0.19	376.95
		297.97	-7.75e-03	7.11e-05	0.0	149.4	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
81	17	376.95	0.24	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.16	0.08	0.24	376.95
		297.97	-8.40e-04	9.96e-05	0.0	149.4	-25.47	-56.55	-0.16	0.08	-8.40e-04	297.97
81	19	497.29	0.22	1.20e-03	-7.34	0.0	-31.07	-65.80	-0.15	0.07	0.22	497.29
		393.52	-5.58e-03	7.39e-05	0.0	149.4	-33.15	-73.14	-0.15	0.07	-5.58e-03	393.52
81	21	497.29	0.26	1.20e-03	-7.34	0.0	-31.07	-65.80	-0.17	0.08	0.26	497.29
		393.52	-7.43e-04	9.38e-05	0.0	149.4	-33.15	-73.14	-0.17	0.08	-7.43e-04	393.52
81	22	376.95	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.13	0.06	0.19	376.95
		297.97	-7.75e-03	7.11e-05	0.0	149.4	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
81	23	376.95	0.23	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.15	0.07	0.23	376.95
		297.97	-2.91e-03	9.10e-05	0.0	149.4	-25.47	-56.55	-0.15	0.07	-2.91e-03	297.97
81	24	401.02	0.20	9.65e-04	-7.34	0.0	-24.93	-52.53	-0.14	0.07	0.20	401.02
		317.08	-7.32e-03	7.16e-05	0.0	149.4	-27.00	-59.86	-0.14	0.07	-7.32e-03	317.08
81	26	401.02	0.23	9.65e-04	-7.34	0.0	-24.93	-52.53	-0.15	0.07	0.23	401.02
		317.08	-3.17e-03	8.87e-05	0.0	149.4	-27.00	-59.86	-0.15	0.07	-3.17e-03	317.08
81	27	376.95	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.13	0.06	0.19	376.95
		297.97	-7.75e-03	7.11e-05	0.0	149.4	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
81	28	376.95	0.22	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.15	0.07	0.22	376.95
		297.97	-3.60e-03	8.82e-05	0.0	149.4	-25.47	-56.55	-0.15	0.07	-3.60e-03	297.97
81	47	361.45	-104.40	8.60e-04	-7.34	0.0	-13.58	-45.50	22.76	-38.14	-137.77	361.45
		287.89	-137.77	-0.01	0.0	149.4	-15.65	-52.84	22.76	-38.14	-104.40	287.89
81	50	392.46	138.21	9.55e-04	-7.34	0.0	-33.22	-52.91	-23.06	38.28	138.21	392.46
		308.05	104.39	0.01	0.0	149.4	-35.29	-60.25	-23.06	38.28	104.39	308.05
81	71	368.31	-37.15	8.53e-04	-7.34	0.0	3.68	-44.46	5.59	-8.90	-45.20	368.31
		296.31	-45.20	-2.45e-03	0.0	149.4	1.61	-51.80	5.59	-8.90	-37.15	296.31
81	74	385.60	45.64	9.63e-04	-7.34	0.0	-50.47	-53.95	-5.89	9.04	45.64	385.60
		299.63	37.14	2.63e-03	0.0	149.4	-52.55	-61.29	-5.89	9.04	37.14	299.63
81	102	378.49	-54.31	9.06e-04	-7.34	0.0	-19.56	-48.98	11.79	-19.79	-71.66	378.49
		299.84	-71.66	-5.96e-03	0.0	149.4	-21.63	-56.32	11.79	-19.79	-54.31	299.84
81	103	375.42	72.10	9.09e-04	-7.34	0.0	-27.24	-49.44	-12.09	19.94	72.10	375.42
		296.09	54.30	6.13e-03	0.0	149.4	-29.31	-56.77	-12.09	19.94	54.30	296.09
81	114	382.03	-19.42	9.02e-04	-7.34	0.0	-10.63	-48.44	2.79	-4.53	-23.50	382.03
		304.19	-23.50	-1.20e-03	0.0	149.4	-12.71	-55.78	2.79	-4.53	-19.42	304.19
81	115	371.87	23.95	9.13e-04	-7.34	0.0	-36.16	-49.97	-3.09	4.67	23.95	371.87
		291.74	19.41	1.38e-03	0.0	149.4	-38.23	-57.31	-3.09	4.67	19.41	291.74
81	144	441.47	-32.29	1.05e-03	-7.34	0.0	-23.97	-59.63	6.16	-10.73	-41.87	441.47
		347.26	-41.87	-3.18e-03	0.0	149.4	-26.04	-66.97	6.16	-10.73	-32.29	347.26
81	145	312.44	42.31	7.63e-04	-7.34	0.0	-22.83	-38.78	-6.46	10.87	42.31	312.44
		248.68	32.28	3.36e-03	0.0	149.4	-24.90	-46.12	-6.46	10.87	32.28	248.68
81	157	376.95	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.13	0.06	0.19	376.95
		297.97	-7.75e-03	7.11e-05	0.0	149.4	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
81	158	376.95	0.22	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.15	0.07	0.22	376.95
		297.97	-3.60e-03	8.82e-05	0.0	149.4	-25.47	-56.55	-0.15	0.07	-3.60e-03	297.97
82	1	490.12	0.25	1.18e-03	-9.54	0.0	-33.04	73.53	0.18	-0.08	-0.01	387.41
		387.41	-0.01	-9.42e-05	0.0	149.4	-30.35	63.99	0.18	-0.08	0.25	490.12
82	5	376.87	0.19	-9.07e-04	-7.34	0.0	-25.53	56.53	0.13	-0.06	-4.57e-03	297.92
		297.92	-4.57e-03	-6.93e-05	0.0	149.4	-23.46	49.19	0.13	-0.06	0.19	376.87
82	7	376.87	0.27	-9.07e-04	-7.34	0.0	-25.53	56.53	0.17	-0.09	5.79e-03	297.92
		297.92	5.79e-03	-1.12e-04	0.0	149.4	-23.46	49.19	0.17	-0.09	0.27	376.87
82	9	670.63	0.29	-1.61e-03	-9.54	0.0	-44.56	98.42	0.20	-0.10	-0.01	530.74
		530.74	-0.01	-9.84e-05	0.0	149.4	-41.87	88.88	0.20	-0.10	0.29	670.63
82	11	670.63	0.34	-1.61e-03	-9.54	0.0	-44.56	98.42	0.23	-0.11	-2.75e-03	530.74
		530.74	-2.75e-03	-1.28e-04	0.0	149.4	-41.87	88.88	0.23	-0.11	0.34	670.63
82	15	376.95	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97
		297.97	-7.75e-03	-7.11e-05	0.0	149.4	-23.40	49.21	0.13	-0.06	0.19	376.95
82	17	376.95	0.24	-9.08e-04	-7.34	0.0	-25.47	56.55	0.16	-0.08	-8.44e-04	297.97
		297.97	-8.44e-04	-9.96e-05	0.0	149.4	-23.40	49.21	0.16	-0.08	0.24	376.95
82	19	497.29	0.22	-1.20e-03	-7.34	0.0	-33.15	73.14	0.15	-0.07	-5.58e-03	393.52
		393.52	-5.58e-03	-7.39e-05	0.0	149.4	-31.07	65.80	0.15	-0.07	0.22	497.29
82	21	497.29	0.26	-1.20e-03	-7.34	0.0	-33.15	73.14	0.17	-0.08	-7.47e-04	393.52
		393.52	-7.47e-04	-9.38e-05	0.0	149.4	-31.07	65.80	0.17	-0.08	0.26	497.29

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
82	22	376.95	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97
		297.97	-7.75e-03	-7.11e-05	0.0	149.4	-23.40	49.21	0.13	-0.06	0.19	376.95
82	23	376.95	0.23	-9.08e-04	-7.34	0.0	-25.47	56.55	0.15	-0.07	-2.92e-03	297.97
		297.97	-2.92e-03	-9.10e-05	0.0	149.4	-23.40	49.21	0.15	-0.07	0.23	376.95
82	24	401.02	0.20	-9.65e-04	-7.34	0.0	-27.00	59.86	0.14	-0.07	-7.32e-03	317.08
		317.08	-7.32e-03	-7.16e-05	0.0	149.4	-24.93	52.53	0.14	-0.07	0.20	401.02
82	26	401.02	0.23	-9.65e-04	-7.34	0.0	-27.00	59.86	0.15	-0.07	-3.17e-03	317.08
		317.08	-3.17e-03	-8.87e-05	0.0	149.4	-24.93	52.53	0.15	-0.07	0.23	401.02
82	27	376.95	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97
		297.97	-7.75e-03	-7.11e-05	0.0	149.4	-23.40	49.21	0.13	-0.06	0.19	376.95
82	28	376.95	0.22	-9.08e-04	-7.34	0.0	-25.47	56.55	0.15	-0.07	-3.61e-03	297.97
		297.97	-3.61e-03	-8.82e-05	0.0	149.4	-23.40	49.21	0.15	-0.07	0.22	376.95
82	29	361.45	-104.40	-8.60e-04	-7.34	0.0	-15.65	52.84	-22.76	38.14	-104.40	287.89
		287.89	-137.77	0.01	0.0	149.4	-13.58	45.50	-22.76	38.14	-137.77	361.45
82	36	392.46	138.21	-9.55e-04	-7.34	0.0	-35.29	60.25	23.06	-38.28	104.39	308.05
		308.05	104.39	-0.01	0.0	149.4	-33.21	52.91	23.06	-38.28	138.21	392.46
82	61	368.31	-37.15	-8.53e-04	-7.34	0.0	1.61	51.80	-5.59	8.90	-37.15	296.31
		296.31	-45.20	2.45e-03	0.0	149.4	3.68	44.46	-5.59	8.90	-45.20	368.31
82	68	385.60	45.64	-9.63e-04	-7.34	0.0	-52.54	61.29	5.89	-9.04	37.14	299.63
		299.63	37.14	-2.63e-03	0.0	149.4	-50.47	53.95	5.89	-9.04	45.64	385.60
82	93	378.49	-54.31	-9.06e-04	-7.34	0.0	-21.63	56.32	-11.79	19.79	-54.31	299.84
		299.84	-71.66	5.96e-03	0.0	149.4	-19.56	48.98	-11.79	19.79	-71.66	378.49
82	96	375.42	72.10	-9.09e-04	-7.34	0.0	-29.31	56.77	12.09	-19.94	54.30	296.09
		296.09	54.30	-6.13e-03	0.0	149.4	-27.24	49.44	12.09	-19.94	72.10	375.42
82	109	382.03	-19.42	-9.02e-04	-7.34	0.0	-12.71	55.78	-2.79	4.53	-19.42	304.19
		304.19	-23.50	1.20e-03	0.0	149.4	-10.63	48.44	-2.79	4.53	-23.50	382.03
82	112	371.87	23.95	-9.13e-04	-7.34	0.0	-38.23	57.31	3.09	-4.67	19.41	291.74
		291.74	19.41	-1.38e-03	0.0	149.4	-36.16	49.97	3.09	-4.67	23.95	371.87
82	126	441.47	-32.29	-1.05e-03	-7.34	0.0	-26.04	66.97	-6.16	10.73	-32.29	347.26
		347.26	-41.87	3.18e-03	0.0	149.4	-23.97	59.63	-6.16	10.73	-41.87	441.47
82	131	312.44	42.31	-7.63e-04	-7.34	0.0	-24.90	46.12	6.46	-10.87	32.28	248.68
		248.68	32.28	-3.36e-03	0.0	149.4	-22.83	38.78	6.46	-10.87	42.31	312.44
82	157	376.95	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97
		297.97	-7.75e-03	-7.11e-05	0.0	149.4	-23.40	49.21	0.13	-0.06	0.19	376.95
82	158	376.95	0.22	-9.08e-04	-7.34	0.0	-25.47	56.55	0.15	-0.07	-3.61e-03	297.97
		297.97	-3.61e-03	-8.82e-05	0.0	149.4	-23.40	49.21	0.15	-0.07	0.22	376.95
83	5	297.92	-4.57e-03	4.00e-04	-2.31	0.0	-25.53	-56.53	-0.13	0.06	-4.57e-03	297.92
		273.99	-0.06	1.96e-05	0.0	41.5	-26.19	-58.84	-0.13	0.06	-0.06	273.99
83	7	297.92	5.79e-03	4.00e-04	-2.31	0.0	-25.54	-56.53	-0.17	0.09	5.79e-03	297.92
		273.99	-0.07	3.16e-05	0.0	41.5	-26.19	-58.84	-0.17	0.09	-0.07	273.99
83	8	369.58	7.42e-03	4.95e-04	-2.31	0.0	-31.29	-68.97	-0.19	0.09	7.42e-03	369.58
		340.50	-0.07	3.23e-05	0.0	41.5	-31.95	-71.29	-0.19	0.09	-0.07	340.50
83	9	530.74	-1.00e-02	7.11e-04	-3.01	0.0	-44.56	-98.42	-0.20	0.10	-1.00e-02	530.74
		489.30	-0.09	2.78e-05	0.0	41.5	-45.41	-101.43	-0.20	0.10	-0.09	489.30
83	11	530.74	-2.74e-03	7.11e-04	-3.01	0.0	-44.56	-98.42	-0.23	0.11	-2.74e-03	530.74
		489.30	-0.10	3.62e-05	0.0	41.5	-45.41	-101.43	-0.23	0.11	-0.10	489.30
83	15	297.97	-7.75e-03	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
		274.04	-0.06	2.00e-05	0.0	41.5	-26.12	-58.86	-0.13	0.06	-0.06	274.04
83	17	297.97	-8.40e-04	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.16	0.08	-8.40e-04	297.97
		274.04	-0.07	2.81e-05	0.0	41.5	-26.12	-58.86	-0.16	0.08	-0.07	274.04
83	18	345.74	2.45e-04	4.64e-04	-2.31	0.0	-29.31	-64.84	-0.17	0.08	2.45e-04	345.74
		318.37	-0.07	2.85e-05	0.0	41.5	-29.96	-67.16	-0.17	0.08	-0.07	318.37
83	19	393.52	-5.58e-03	5.27e-04	-2.31	0.0	-33.15	-73.14	-0.15	0.07	-5.58e-03	393.52
		362.71	-0.07	2.09e-05	0.0	41.5	-33.80	-75.45	-0.15	0.07	-0.07	362.71
83	21	393.52	-7.43e-04	5.27e-04	-2.31	0.0	-33.15	-73.14	-0.17	0.08	-7.43e-04	393.52
		362.71	-0.07	2.65e-05	0.0	41.5	-33.80	-75.45	-0.17	0.08	-0.07	362.71
83	22	297.97	-7.75e-03	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
		274.04	-0.06	2.00e-05	0.0	41.5	-26.12	-58.86	-0.13	0.06	-0.06	274.04
83	23	297.97	-2.91e-03	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.15	0.07	-2.91e-03	297.97
		274.04	-0.07	2.57e-05	0.0	41.5	-26.12	-58.86	-0.15	0.07	-0.07	274.04
83	24	317.08	-7.32e-03	4.25e-04	-2.31	0.0	-27.00	-59.86	-0.14	0.07	-7.32e-03	317.08
		291.77	-0.06	2.02e-05	0.0	41.5	-27.66	-62.18	-0.14	0.07	-0.06	291.77
83	26	317.08	-3.17e-03	4.25e-04	-2.31	0.0	-27.00	-59.86	-0.15	0.07	-3.17e-03	317.08
		291.77	-0.07	2.50e-05	0.0	41.5	-27.66	-62.18	-0.15	0.07	-0.07	291.77
83	27	297.97	-7.75e-03	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
		274.04	-0.06	2.00e-05	0.0	41.5	-26.12	-58.86	-0.13	0.06	-0.06	274.04
83	28	297.97	-3.60e-03	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.15	0.07	-3.60e-03	297.97
		274.04	-0.07	2.49e-05	0.0	41.5	-26.12	-58.86	-0.15	0.07	-0.07	274.04
83	47	287.89	-94.23	3.82e-04	-2.31	0.0	-15.13	-52.83	24.45	-38.14	-104.40	287.89
		265.47	-104.40	-3.93e-03	0.0	41.5	-15.78	-55.14	24.45	-38.14	-94.23	265.47
83	50	308.04	104.39	4.18e-04	-2.31	0.0	-35.81	-60.26	-24.75	38.28	104.39	308.04
		282.61	94.10	3.98e-03	0.0	41.5	-36.46	-62.58	-24.75	38.28	94.10	282.61

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
83	71	296.31	-34.37	3.83e-04	-2.31	0.0	3.43	-52.16	6.36	-8.90	-37.15	296.31
		274.16	-37.15	-9.30e-04	0.0	41.5	2.78	-54.47	6.36	-8.90	-34.37	274.16
83	74	299.63	37.14	4.16e-04	-2.31	0.0	-54.37	-60.93	-6.66	9.04	37.14	299.63
		273.92	34.23	9.80e-04	0.0	41.5	-55.02	-63.25	-6.66	9.04	34.23	273.92
83	102	299.84	-49.15	4.00e-04	-2.31	0.0	-21.34	-56.40	12.68	-19.79	-54.31	299.84
		275.98	-54.31	-2.02e-03	0.0	41.5	-21.99	-58.71	12.68	-19.79	-49.15	275.98
83	103	296.09	54.30	3.99e-04	-2.31	0.0	-29.60	-56.69	-12.98	19.94	54.30	296.09
		272.10	49.02	2.07e-03	0.0	41.5	-30.25	-59.01	-12.98	19.94	49.02	272.10
83	110	304.19	-16.73	4.01e-04	-2.31	0.0	-11.74	-56.05	3.27	-4.70	-18.03	304.19
		280.47	-18.03	-4.64e-04	0.0	41.5	-12.40	-58.37	3.27	-4.70	-16.73	280.47
83	111	291.74	18.02	3.99e-04	-2.31	0.0	-39.20	-57.04	-3.57	4.85	18.02	291.74
		267.61	16.60	5.14e-04	0.0	41.5	-39.85	-59.35	-3.57	4.85	16.60	267.61
83	114	304.19	-18.12	4.01e-04	-2.31	0.0	-11.74	-56.05	3.20	-4.53	-19.42	304.19
		280.47	-19.42	-4.63e-04	0.0	41.5	-12.40	-58.37	3.20	-4.53	-18.12	280.47
83	115	291.74	19.41	3.99e-04	-2.31	0.0	-39.20	-57.04	-3.50	4.67	19.41	291.74
		267.61	17.99	5.13e-04	0.0	41.5	-39.85	-59.35	-3.50	4.67	17.99	267.61
83	144	347.26	-30.19	4.64e-04	-2.31	0.0	-25.35	-67.70	6.77	-10.73	-32.29	347.26
		318.83	-32.29	-1.11e-03	0.0	41.5	-26.00	-70.02	6.77	-10.73	-30.19	318.83
83	145	248.68	32.28	3.36e-04	-2.31	0.0	-25.59	-45.39	-7.07	10.87	32.28	248.68
		229.25	30.05	1.16e-03	0.0	41.5	-26.24	-47.70	-7.07	10.87	30.05	229.25
83	157	297.97	-7.75e-03	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.13	0.06	-7.75e-03	297.97
		274.04	-0.06	2.00e-05	0.0	41.5	-26.12	-58.86	-0.13	0.06	-0.06	274.04
83	158	297.97	-3.60e-03	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.15	0.07	-3.60e-03	297.97
		274.04	-0.07	2.49e-05	0.0	41.5	-26.12	-58.86	-0.15	0.07	-0.07	274.04
84	3	356.37	0.88	-1.90e-03	-7.83	0.0	-49.69	132.46	-0.91	-0.11	0.88	217.66
		217.66	-0.09	-1.02e-04	0.0	107.9	-47.48	124.63	-0.91	-0.11	-0.09	356.37
84	5	274.05	0.42	-1.46e-03	-6.02	0.0	-38.34	101.86	-0.44	-0.06	0.42	167.39
		167.39	-0.06	-5.16e-05	0.0	107.9	-36.64	95.84	-0.44	-0.06	-0.06	274.05
84	7	274.05	0.73	-1.46e-03	-6.02	0.0	-38.34	101.86	-0.74	-0.09	0.73	167.39
		167.39	-0.07	-8.38e-05	0.0	107.9	-36.64	95.84	-0.74	-0.09	-0.07	274.05
84	9	489.41	0.56	-2.60e-03	-7.83	0.0	-68.01	181.45	-0.61	-0.10	0.56	297.84
		297.84	-0.09	-7.31e-05	0.0	107.9	-65.80	173.62	-0.61	-0.10	-0.09	489.41
84	11	489.41	0.78	-2.60e-03	-7.83	0.0	-68.01	181.45	-0.82	-0.11	0.78	297.84
		297.84	-0.10	-9.56e-05	0.0	107.9	-65.80	173.62	-0.82	-0.11	-0.10	489.41
84	15	274.10	0.43	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.45	-0.06	0.43	167.41
		167.41	-0.06	-5.28e-05	0.0	107.9	-36.57	95.86	-0.45	-0.06	-0.06	274.10
84	17	274.10	0.64	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.66	-0.08	0.64	167.41
		167.41	-0.07	-7.43e-05	0.0	107.9	-36.57	95.86	-0.66	-0.08	-0.07	274.10
84	19	362.79	0.42	-1.93e-03	-6.02	0.0	-50.49	134.54	-0.46	-0.07	0.42	220.87
		220.87	-0.07	-5.50e-05	0.0	107.9	-48.79	128.52	-0.46	-0.07	-0.07	362.79
84	21	362.79	0.57	-1.93e-03	-6.02	0.0	-50.49	134.54	-0.60	-0.08	0.57	220.87
		220.87	-0.07	-7.00e-05	0.0	107.9	-48.79	128.52	-0.60	-0.08	-0.07	362.79
84	22	274.10	0.43	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.45	-0.06	0.43	167.41
		167.41	-0.06	-5.28e-05	0.0	107.9	-36.57	95.86	-0.45	-0.06	-0.06	274.10
84	23	274.10	0.58	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.59	-0.07	0.58	167.41
		167.41	-0.07	-6.78e-05	0.0	107.9	-36.57	95.86	-0.59	-0.07	-0.07	274.10
84	24	291.84	0.43	-1.55e-03	-6.02	0.0	-40.72	108.41	-0.45	-0.07	0.43	178.10
		178.10	-0.06	-5.32e-05	0.0	107.9	-39.02	102.39	-0.45	-0.07	-0.06	291.84
84	26	291.84	0.55	-1.55e-03	-6.02	0.0	-40.72	108.41	-0.58	-0.07	0.55	178.10
		178.10	-0.07	-6.61e-05	0.0	107.9	-39.02	102.39	-0.58	-0.07	-0.07	291.84
84	27	274.10	0.43	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.45	-0.06	0.43	167.41
		167.41	-0.06	-5.28e-05	0.0	107.9	-36.57	95.86	-0.45	-0.06	-0.06	274.10
84	28	274.10	0.55	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.57	-0.07	0.55	167.41
		167.41	-0.07	-6.57e-05	0.0	107.9	-36.57	95.86	-0.57	-0.07	-0.07	274.10
84	30	290.17	-53.06	-1.54e-03	-6.02	0.0	-27.31	107.83	-37.36	38.09	-53.06	177.08
		177.08	-94.48	0.01	0.0	107.9	-25.61	101.81	-37.36	38.09	-94.48	290.17
84	35	258.03	94.35	-1.39e-03	-6.02	0.0	-49.24	95.93	36.21	-38.24	54.17	157.74
		157.74	54.17	-0.01	0.0	107.9	-47.54	89.91	36.21	-38.24	94.35	258.03
84	61	274.21	-20.04	-1.42e-03	-6.02	0.0	7.18	100.90	-9.81	8.90	-20.04	168.56
		168.56	-34.37	2.69e-03	0.0	107.9	8.88	94.88	-9.81	8.90	-34.37	274.21
84	68	273.98	34.23	-1.50e-03	-6.02	0.0	-83.73	102.86	8.66	-9.04	21.15	166.26
		166.26	21.15	-2.82e-03	0.0	107.9	-82.03	96.84	8.66	-9.04	34.23	273.98
84	93	276.03	-27.36	-1.46e-03	-6.02	0.0	-31.53	102.48	-19.69	19.79	-27.36	168.71
		168.71	-49.15	5.62e-03	0.0	107.9	-29.83	96.45	-19.69	19.79	-49.15	276.03
84	96	272.16	49.02	-1.46e-03	-6.02	0.0	-45.02	101.29	18.54	-19.94	28.47	166.12
		166.12	28.47	-5.75e-03	0.0	107.9	-43.32	95.26	18.54	-19.94	49.02	272.16
84	109	280.53	-10.22	-1.47e-03	-6.02	0.0	-15.85	103.86	-5.39	4.53	-10.22	171.71
		171.71	-18.12	1.34e-03	0.0	107.9	-14.14	97.84	-5.39	4.53	-18.12	280.53
84	112	267.66	17.99	-1.45e-03	-6.02	0.0	-60.70	99.90	4.24	-4.67	11.33	163.11
		163.11	11.33	-1.48e-03	0.0	107.9	-59.00	93.88	4.24	-4.67	17.99	267.66
84	113	280.53	-9.42	-1.47e-03	-6.02	0.0	-15.85	103.86	-4.86	4.70	-9.42	171.71
		171.71	-16.73	1.31e-03	0.0	107.9	-14.14	97.84	-4.86	4.70	-16.73	280.53

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
84	116	267.66	16.60	-1.45e-03	-6.02	0.0	-60.70	99.90	3.71	-4.85	10.53	163.11
		163.11	10.53	-1.44e-03	0.0	107.9	-59.00	93.88	3.71	-4.85	16.60	267.66
84	126	318.91	-16.36	-1.69e-03	-6.02	0.0	-32.19	119.03	-11.46	-10.73	-16.36	193.79
		193.79	-30.19	3.10e-03	0.0	107.9	-30.49	113.01	-11.46	10.73	-30.19	318.91
84	131	229.28	30.05	-1.23e-03	-6.02	0.0	-44.35	84.73	10.32	-10.87	17.47	141.04
		141.04	17.47	-3.24e-03	0.0	107.9	-42.65	78.71	10.32	-10.87	30.05	229.28
84	157	274.10	0.43	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.45	-0.06	0.43	167.41
		167.41	-0.06	-5.28e-05	0.0	107.9	-36.57	95.86	-0.45	-0.06	-0.06	274.10
84	158	274.10	0.55	-1.46e-03	-6.02	0.0	-38.27	101.88	-0.57	-0.07	0.55	167.41
		167.41	-0.07	-6.57e-05	0.0	107.9	-36.57	95.86	-0.57	-0.07	-0.07	274.10
85	3	217.66	1.86	2.68e-03	-6.10	0.0	-49.69	-132.46	0.91	0.11	0.88	217.66
		72.34	0.88	1.17e-04	0.0	107.2	-51.42	-138.57	0.91	0.11	1.86	72.34
85	5	167.39	0.89	2.06e-03	-4.70	0.0	-38.34	-101.86	0.44	0.06	0.42	167.39
		55.64	0.42	5.85e-05	0.0	107.2	-39.67	-106.56	0.44	0.06	0.89	55.64
85	7	167.39	1.53	2.06e-03	-4.70	0.0	-38.34	-101.86	0.74	0.09	0.73	167.39
		55.64	0.73	9.60e-05	0.0	107.2	-39.67	-106.56	0.74	0.09	1.53	55.64
85	9	297.84	1.21	3.66e-03	-6.10	0.0	-68.01	-181.45	0.61	0.10	0.56	297.84
		99.99	0.56	8.24e-05	0.0	107.2	-69.74	-187.56	0.61	0.10	1.21	99.99
85	11	297.84	1.66	3.66e-03	-6.10	0.0	-68.01	-181.45	0.82	0.11	0.78	297.84
		99.99	0.78	1.09e-04	0.0	107.2	-69.74	-187.56	0.82	0.11	1.66	99.99
85	12	247.57	0.89	3.05e-03	-4.70	0.0	-56.66	-150.85	0.44	0.08	0.41	247.57
		83.29	0.41	6.16e-05	0.0	107.2	-57.99	-155.55	0.44	0.08	0.89	83.29
85	15	167.41	0.91	2.06e-03	-4.70	0.0	-38.27	-101.88	0.45	0.06	0.43	167.41
		55.64	0.43	5.99e-05	0.0	107.2	-39.60	-106.58	0.45	0.06	0.91	55.64
85	17	167.41	1.34	2.06e-03	-4.70	0.0	-38.27	-101.88	0.66	0.08	0.64	167.41
		55.64	0.64	8.49e-05	0.0	107.2	-39.60	-106.58	0.66	0.08	1.34	55.64
85	19	220.87	0.91	2.72e-03	-4.70	0.0	-50.49	-134.54	0.46	0.07	0.42	220.87
		74.08	0.42	6.20e-05	0.0	107.2	-51.82	-139.24	0.46	0.07	0.91	74.08
85	21	220.87	1.21	2.72e-03	-4.70	0.0	-50.49	-134.54	0.60	0.08	0.57	220.87
		74.08	0.57	7.95e-05	0.0	107.2	-51.82	-139.24	0.60	0.08	1.21	74.08
85	22	167.41	0.91	2.06e-03	-4.70	0.0	-38.27	-101.88	0.45	0.06	0.43	167.41
		55.64	0.43	5.99e-05	0.0	107.2	-39.60	-106.58	0.45	0.06	0.91	55.64
85	23	167.41	1.21	2.06e-03	-4.70	0.0	-38.27	-101.88	0.59	0.07	0.58	167.41
		55.64	0.58	7.74e-05	0.0	107.2	-39.60	-106.58	0.59	0.07	1.21	55.64
85	24	178.10	0.91	2.19e-03	-4.70	0.0	-40.72	-108.41	0.45	0.07	0.43	178.10
		59.33	0.43	6.03e-05	0.0	107.2	-42.04	-113.11	0.45	0.07	0.91	59.33
85	26	178.10	1.17	2.19e-03	-4.70	0.0	-40.72	-108.41	0.58	0.07	0.55	178.10
		59.33	0.55	7.53e-05	0.0	107.2	-42.04	-113.11	0.58	0.07	1.17	59.33
85	27	167.41	0.91	2.06e-03	-4.70	0.0	-38.27	-101.88	0.45	0.06	0.43	167.41
		55.64	0.43	5.99e-05	0.0	107.2	-39.60	-106.58	0.45	0.06	0.91	55.64
85	28	167.41	1.17	2.06e-03	-4.70	0.0	-38.27	-101.88	0.57	0.07	0.55	167.41
		55.64	0.55	7.49e-05	0.0	107.2	-39.60	-106.58	0.57	0.07	1.17	55.64
85	47	162.75	-11.84	1.98e-03	-4.70	0.0	-22.55	-98.30	37.96	-38.14	-53.19	162.75
		54.76	-53.19	-0.01	0.0	107.2	-23.88	-102.99	37.96	-38.14	-11.84	54.76
85	50	172.07	54.30	2.13e-03	-4.70	0.0	-54.00	-105.47	-36.81	38.28	54.30	172.07
		56.53	14.18	0.01	0.0	107.2	-55.32	-110.16	-36.81	38.28	14.18	56.53
85	71	168.56	-5.27	2.02e-03	-4.70	0.0	9.22	-101.38	9.63	-8.90	-20.04	168.56
		57.26	-20.04	-2.74e-03	0.0	107.2	7.90	-106.07	9.63	-8.90	-5.27	57.26
85	74	166.26	21.15	2.09e-03	-4.70	0.0	-85.77	-102.39	-8.49	9.04	21.15	166.26
		54.02	7.61	2.89e-03	0.0	107.2	-87.10	-107.08	-8.49	9.04	7.61	54.02
85	102	168.71	-5.54	2.07e-03	-4.70	0.0	-31.21	-102.57	20.07	-19.79	-27.36	168.71
		56.20	-27.36	-5.54e-03	0.0	107.2	-32.53	-107.26	20.07	-19.79	-5.54	56.20
85	103	166.12	28.47	2.05e-03	-4.70	0.0	-45.34	-101.20	-18.92	19.94	28.47	166.12
		55.09	7.88	5.69e-03	0.0	107.2	-46.67	-105.89	-18.92	19.94	7.88	55.09
85	110	171.71	-2.06	2.09e-03	-4.70	0.0	-14.77	-104.16	4.71	-4.70	-9.42	171.71
		57.50	-9.42	-1.23e-03	0.0	107.2	-16.10	-108.86	4.71	-4.70	-2.06	57.50
85	111	163.11	10.53	2.03e-03	-4.70	0.0	-61.78	-99.60	-3.56	4.85	10.53	163.11
		53.79	4.40	1.38e-03	0.0	107.2	-63.10	-104.30	-3.56	4.85	4.40	53.79
85	114	171.71	-2.18	2.09e-03	-4.70	0.0	-14.77	-104.16	5.29	-4.53	-10.22	171.71
		57.50	-10.22	-1.36e-03	0.0	107.2	-16.10	-108.86	5.29	-4.53	-2.18	57.50
85	115	163.11	11.33	2.03e-03	-4.70	0.0	-61.78	-99.60	-4.14	4.67	11.33	163.11
		53.79	4.52	1.50e-03	0.0	107.2	-63.10	-104.30	-4.14	4.67	4.52	53.79
85	144	193.79	-2.96	2.38e-03	-4.70	0.0	-31.48	-119.59	11.65	-10.73	-16.36	193.79
		63.28	-16.36	-3.11e-03	0.0	107.2	-32.80	-124.28	11.65	-10.73	-2.96	63.28
85	145	141.04	17.47	1.74e-03	-4.70	0.0	-45.07	-84.18	-10.50	10.87	17.47	141.04
		48.01	5.30	3.25e-03	0.0	107.2	-46.40	-88.87	-10.50	10.87	5.30	48.01
85	157	167.41	0.91	2.06e-03	-4.70	0.0	-38.27	-101.88	0.45	0.06	0.43	167.41
		55.64	0.43	5.99e-05	0.0	107.2	-39.60	-106.58	0.45	0.06	0.91	55.64
85	158	167.41	1.17	2.06e-03	-4.70	0.0	-38.27	-101.88	0.57	0.07	0.55	167.41
		55.64	0.55	7.49e-05	0.0	107.2	-39.60	-106.58	0.57	0.07	1.17	55.64
86	3	217.66	1.86	-2.68e-03	-6.10	0.0	-51.42	138.57	-0.91	-0.11	1.86	72.34
		72.34	0.88	-1.17e-04	0.0	107.2	-49.69	132.46	-0.91	-0.11	0.88	217.66

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
86	5	167.39	0.89	-2.06e-03	-4.70	0.0	-39.67	106.56	-0.44	-0.06	0.89	55.64
		55.64	0.42	-5.85e-05	0.0	107.2	-38.34	101.86	-0.44	-0.06	0.42	167.39
86	7	167.39	1.53	-2.06e-03	-4.70	0.0	-39.67	106.56	-0.74	-0.09	1.53	55.64
		55.64	0.73	-9.60e-05	0.0	107.2	-38.34	101.86	-0.74	-0.09	0.73	167.39
86	9	297.84	1.21	-3.66e-03	-6.10	0.0	-69.74	187.56	-0.61	-0.10	1.21	99.99
		99.99	0.56	-8.24e-05	0.0	107.2	-68.01	181.45	-0.61	-0.10	0.56	297.84
86	11	297.84	1.66	-3.66e-03	-6.10	0.0	-69.74	187.56	-0.82	-0.11	1.66	99.99
		99.99	0.78	-1.09e-04	0.0	107.2	-68.01	181.45	-0.82	-0.11	0.78	297.84
86	12	247.57	0.89	-3.05e-03	-4.70	0.0	-57.99	155.55	-0.44	-0.08	0.89	83.29
		83.29	0.41	-6.16e-05	0.0	107.2	-56.66	150.85	-0.44	-0.08	0.41	247.57
86	15	167.41	0.91	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.45	-0.06	0.91	55.64
		55.64	0.43	-5.99e-05	0.0	107.2	-38.27	101.88	-0.45	-0.06	0.43	167.41
86	17	167.41	1.34	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.66	-0.08	1.34	55.64
		55.64	0.64	-8.49e-05	0.0	107.2	-38.27	101.88	-0.66	-0.08	0.64	167.41
86	19	220.87	0.91	-2.72e-03	-4.70	0.0	-51.82	139.24	-0.46	-0.07	0.91	74.08
		74.08	0.42	-6.20e-05	0.0	107.2	-50.49	134.54	-0.46	-0.07	0.42	220.87
86	21	220.87	1.21	-2.72e-03	-4.70	0.0	-51.82	139.24	-0.60	-0.08	1.21	74.08
		74.08	0.57	-7.95e-05	0.0	107.2	-50.49	134.54	-0.60	-0.08	0.57	220.87
86	22	167.41	0.91	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.45	-0.06	0.91	55.64
		55.64	0.43	-5.99e-05	0.0	107.2	-38.27	101.88	-0.45	-0.06	0.43	167.41
86	23	167.41	1.21	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.59	-0.07	1.21	55.64
		55.64	0.58	-7.74e-05	0.0	107.2	-38.27	101.88	-0.59	-0.07	0.58	167.41
86	24	178.10	0.91	-2.19e-03	-4.70	0.0	-42.04	113.11	-0.45	-0.07	0.91	59.33
		59.33	0.43	-6.03e-05	0.0	107.2	-40.72	108.41	-0.45	-0.07	0.43	178.10
86	26	178.10	1.17	-2.19e-03	-4.70	0.0	-42.04	113.11	-0.58	-0.07	1.17	59.33
		59.33	0.55	-7.53e-05	0.0	107.2	-40.72	108.41	-0.58	-0.07	0.55	178.10
86	27	167.41	0.91	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.45	-0.06	0.91	55.64
		55.64	0.43	-5.99e-05	0.0	107.2	-38.27	101.88	-0.45	-0.06	0.43	167.41
86	28	167.41	1.17	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.57	-0.07	1.17	55.64
		55.64	0.55	-7.49e-05	0.0	107.2	-38.27	101.88	-0.57	-0.07	0.55	167.41
86	29	162.75	-11.84	-1.98e-03	-4.70	0.0	-23.88	102.99	-37.96	38.14	-11.84	54.76
		54.76	-53.19	0.01	0.0	107.2	-22.55	98.30	-37.96	38.14	-53.19	162.75
86	36	172.07	54.30	-2.13e-03	-4.70	0.0	-55.32	110.16	36.81	-38.28	14.18	56.53
		56.53	14.18	-0.01	0.0	107.2	-54.00	105.47	36.81	-38.28	54.30	172.07
86	61	168.56	-5.27	-2.02e-03	-4.70	0.0	7.90	106.07	-9.64	8.90	-5.27	57.26
		57.26	-20.04	2.74e-03	0.0	107.2	9.22	101.38	-9.64	8.90	-20.04	168.56
86	68	166.26	21.15	-2.09e-03	-4.70	0.0	-87.10	107.08	8.49	-9.04	7.61	54.02
		54.02	7.61	-2.89e-03	0.0	107.2	-85.77	102.39	8.49	-9.04	21.15	166.26
86	93	168.71	-5.54	-2.07e-03	-4.70	0.0	-32.53	107.26	-20.07	19.79	-5.54	56.20
		56.20	-27.36	5.54e-03	0.0	107.2	-31.21	102.57	-20.07	19.79	-27.36	168.71
86	96	166.12	28.47	-2.05e-03	-4.70	0.0	-46.67	105.89	18.92	-19.94	7.88	55.09
		55.09	7.88	-5.69e-03	0.0	107.2	-45.34	101.19	18.92	-19.94	28.47	166.12
86	109	171.71	-2.18	-2.09e-03	-4.70	0.0	-16.10	108.86	-5.29	4.53	-2.18	57.50
		57.50	-10.22	1.36e-03	0.0	107.2	-14.77	104.16	-5.29	4.53	-10.22	171.71
86	112	163.11	11.33	-2.03e-03	-4.70	0.0	-63.10	104.30	4.14	-4.67	4.52	53.79
		53.79	4.52	-1.50e-03	0.0	107.2	-61.78	99.60	4.14	-4.67	11.33	163.11
86	113	171.71	-2.06	-2.09e-03	-4.70	0.0	-16.10	108.86	-4.71	4.70	-2.06	57.50
		57.50	-9.42	1.23e-03	0.0	107.2	-14.77	104.16	-4.71	4.70	-9.42	171.71
86	116	163.11	10.53	-2.03e-03	-4.70	0.0	-63.10	104.30	3.56	-4.85	4.40	53.79
		53.79	4.40	-1.38e-03	0.0	107.2	-61.78	99.60	3.56	-4.85	10.53	163.11
86	126	193.79	-2.96	-2.38e-03	-4.70	0.0	-32.81	124.28	-11.64	10.73	-2.96	63.28
		63.28	-16.36	3.11e-03	0.0	107.2	-31.48	119.58	-11.64	10.73	-16.36	193.79
86	131	141.04	17.47	-1.74e-03	-4.70	0.0	-46.40	88.87	10.49	-10.87	5.30	48.01
		48.01	5.30	-3.25e-03	0.0	107.2	-45.07	84.18	10.49	-10.87	17.47	141.04
86	157	167.41	0.91	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.45	-0.06	0.91	55.64
		55.64	0.43	-5.99e-05	0.0	107.2	-38.27	101.88	-0.45	-0.06	0.43	167.41
86	158	167.41	1.17	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.57	-0.07	1.17	55.64
		55.64	0.55	-7.49e-05	0.0	107.2	-38.27	101.88	-0.57	-0.07	0.55	167.41
87	5	390.35	0.22	-1.88e-04	-6.81	0.0	-10.78	4.30	0.0	-0.06	0.22	388.65
		388.65	0.22	-5.15e-05	0.0	125.1	-8.86	-2.50	0.0	-0.06	0.22	389.77
87	7	390.35	0.31	-1.88e-04	-6.81	0.0	-10.78	4.30	1.00e-06	-0.09	0.31	388.65
		388.65	0.31	-8.48e-05	0.0	125.1	-8.86	-2.50	1.00e-06	-0.09	0.31	389.77
87	9	693.39	0.34	-3.33e-04	-8.85	0.0	-18.02	4.46	1.60e-06	-0.10	0.34	691.98
		691.98	0.34	-7.24e-05	0.0	125.1	-15.52	-4.38	1.60e-06	-0.10	0.34	692.03
87	11	693.39	0.40	-3.33e-04	-8.85	0.0	-18.02	4.46	1.69e-06	-0.11	0.40	691.98
		691.98	0.40	-9.57e-05	0.0	125.1	-15.52	-4.38	1.69e-06	-0.11	0.40	692.03
87	15	390.45	0.22	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.06	0.22	388.73
		388.73	0.22	-5.30e-05	0.0	125.1	-8.80	-2.48	0.0	-0.06	0.22	389.88
87	17	390.45	0.28	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.08	0.28	388.73
		388.73	0.28	-7.52e-05	0.0	125.1	-8.80	-2.48	0.0	-0.08	0.28	389.88
87	19	514.24	0.26	-2.47e-04	-6.81	0.0	-13.49	3.54	1.18e-06	-0.07	0.26	513.09
		513.09	0.26	-5.43e-05	0.0	125.1	-11.57	-3.27	1.18e-06	-0.07	0.26	513.26

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
87	21	514.24	0.30	-2.47e-04	-6.81	0.0	-13.49	3.54	1.24e-06	-0.08	0.30	513.09
		513.09	0.30	-6.98e-05	0.0	125.1	-11.57	-3.27	1.24e-06	-0.08	0.30	513.26
87	22	390.45	0.22	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.06	0.22	388.73
		388.73	0.22	-5.30e-05	0.0	125.1	-8.80	-2.48	0.0	-0.06	0.22	389.88
87	23	390.45	0.26	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.07	0.26	388.73
		388.73	0.26	-6.85e-05	0.0	125.1	-8.80	-2.48	0.0	-0.07	0.26	389.88
87	24	415.20	0.23	-2.00e-04	-6.81	0.0	-11.27	4.17	0.0	-0.07	0.23	413.60
		413.60	0.23	-5.32e-05	0.0	125.1	-9.35	-2.64	0.0	-0.07	0.23	414.56
87	26	415.20	0.26	-2.00e-04	-6.81	0.0	-11.27	4.17	1.00e-06	-0.07	0.26	413.60
		413.60	0.26	-6.66e-05	0.0	125.1	-9.35	-2.64	1.00e-06	-0.07	0.26	414.56
87	27	390.45	0.22	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.06	0.22	388.73
		388.73	0.22	-5.30e-05	0.0	125.1	-8.80	-2.48	0.0	-0.06	0.22	389.88
87	28	390.45	0.26	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.07	0.26	388.73
		388.73	0.26	-6.63e-05	0.0	125.1	-8.80	-2.48	0.0	-0.07	0.26	389.88
87	29	372.53	-140.11	-1.71e-04	-6.81	0.0	-6.80	1.15	2.03	38.14	-142.72	372.36
		369.80	-142.72	4.96e-03	0.0	125.1	-4.87	-5.66	2.03	38.14	-140.11	369.80
87	36	409.96	143.24	-2.04e-04	-6.81	0.0	-14.64	7.50	-2.03	-38.28	143.24	405.10
		405.10	140.63	-5.10e-03	0.0	125.1	-12.72	0.69	-2.03	-38.28	140.63	409.96
87	93	391.11	-72.81	-1.84e-04	-6.81	0.0	-10.17	3.17	1.09	19.79	-74.23	390.19
		389.89	-74.23	2.53e-03	0.0	125.1	-8.24	-3.64	1.09	19.79	-72.81	389.89
87	96	390.03	74.74	-1.91e-04	-6.81	0.0	-11.27	5.48	-1.09	-19.94	74.74	387.27
		387.27	73.33	-2.66e-03	0.0	125.1	-9.35	-1.33	-1.09	-19.94	73.33	389.87
87	109	393.59	-22.05	-1.76e-04	-6.81	0.0	-8.89	0.46	-0.96	4.53	-24.07	393.57
		389.88	-24.07	2.11e-04	0.0	125.1	-6.97	-6.35	-0.96	4.53	-22.05	389.88
87	112	389.88	24.59	-2.00e-04	-6.81	0.0	-12.54	8.19	0.96	-4.67	24.59	383.89
		383.89	22.56	-3.31e-04	0.0	125.1	-10.62	1.38	0.96	-4.67	22.56	389.88
87	113	393.59	-22.00	-1.76e-04	-6.81	0.0	-8.89	0.46	-2.28	4.70	-22.86	393.57
		389.88	-22.86	2.89e-04	0.0	125.1	-6.97	-6.35	-2.28	4.70	-22.00	389.88
87	116	389.88	23.37	-2.00e-04	-6.81	0.0	-12.54	8.19	2.28	-4.85	23.37	383.89
		383.89	22.51	-4.21e-04	0.0	125.1	-10.62	1.38	2.28	-4.85	22.51	389.88
87	125	327.55	-42.27	-1.49e-04	-6.81	0.0	-0.14	-1.05	0.09	10.88	-43.71	327.55
		322.89	-43.71	1.23e-03	0.0	125.1	1.78	-7.86	0.09	10.88	-42.27	322.89
87	126	457.38	-41.71	-2.12e-04	-6.81	0.0	-19.17	5.22	0.02	10.73	-43.21	455.53
		455.53	-43.21	1.22e-03	0.0	125.1	-17.25	-1.59	0.02	10.73	-41.71	456.88
87	131	323.52	43.73	-1.63e-04	-6.81	0.0	-2.26	3.43	-0.02	-10.87	43.73	321.93
		321.93	42.23	-1.35e-03	0.0	125.1	-0.34	-3.38	-0.02	-10.87	42.23	322.88
87	132	456.87	44.22	-2.26e-04	-6.81	0.0	-21.30	9.70	-0.09	-11.03	44.22	449.91
		449.91	42.79	-1.36e-03	0.0	125.1	-19.37	2.89	-0.09	-11.03	42.79	456.87
87	157	390.45	0.22	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.06	0.22	388.73
		388.73	0.22	-5.30e-05	0.0	125.1	-8.80	-2.48	0.0	-0.06	0.22	389.88
87	158	390.45	0.26	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.07	0.26	388.73
		388.73	0.26	-6.63e-05	0.0	125.1	-8.80	-2.48	0.0	-0.07	0.26	389.88
88	5	297.92	-4.57e-03	-4.00e-04	-2.31	0.0	-26.19	58.84	0.13	-0.06	-0.06	273.99
		273.99	-0.06	-1.96e-05	0.0	41.5	-25.53	56.53	0.13	-0.06	-4.57e-03	297.92
88	7	297.92	5.79e-03	-4.00e-04	-2.31	0.0	-26.19	58.84	0.17	-0.09	-0.07	273.99
		273.99	-0.07	-3.16e-05	0.0	41.5	-25.54	56.53	0.17	-0.09	5.79e-03	297.92
88	8	369.58	7.42e-03	-4.95e-04	-2.31	0.0	-31.95	71.29	0.19	-0.09	-0.07	340.50
		340.50	-0.07	-3.23e-05	0.0	41.5	-31.29	68.97	0.19	-0.09	7.42e-03	369.58
88	9	530.74	-0.01	-7.11e-04	-3.01	0.0	-45.41	101.43	0.20	-0.10	-0.09	489.30
		489.30	-0.09	-2.78e-05	0.0	41.5	-44.56	98.42	0.20	-0.10	-0.01	530.74
88	11	530.74	-2.75e-03	-7.11e-04	-3.01	0.0	-45.41	101.43	0.23	-0.11	-0.10	489.30
		489.30	-0.10	-3.62e-05	0.0	41.5	-44.56	98.42	0.23	-0.11	-2.75e-03	530.74
88	15	297.97	-7.75e-03	-4.00e-04	-2.31	0.0	-26.12	58.86	0.13	-0.06	-0.06	274.04
		274.04	-0.06	-2.00e-05	0.0	41.5	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97
88	17	297.97	-8.44e-04	-4.00e-04	-2.31	0.0	-26.12	58.86	0.16	-0.08	-0.07	274.04
		274.04	-0.07	-2.81e-05	0.0	41.5	-25.47	56.55	0.16	-0.08	-8.44e-04	297.97
88	18	345.74	2.41e-04	-4.64e-04	-2.31	0.0	-29.96	67.16	0.17	-0.08	-0.07	318.38
		318.38	-0.07	-2.85e-05	0.0	41.5	-29.31	64.84	0.17	-0.08	2.41e-04	345.74
88	19	393.52	-5.58e-03	-5.27e-04	-2.31	0.0	-33.80	75.45	0.15	-0.07	-0.07	362.71
		362.71	-0.07	-2.09e-05	0.0	41.5	-33.15	73.14	0.15	-0.07	-5.58e-03	393.52
88	21	393.52	-7.47e-04	-5.27e-04	-2.31	0.0	-33.80	75.45	0.17	-0.08	-0.07	362.71
		362.71	-0.07	-2.65e-05	0.0	41.5	-33.15	73.14	0.17	-0.08	-7.47e-04	393.52
88	22	297.97	-7.75e-03	-4.00e-04	-2.31	0.0	-26.12	58.86	0.13	-0.06	-0.06	274.04
		274.04	-0.06	-2.00e-05	0.0	41.5	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97
88	23	297.97	-2.92e-03	-4.00e-04	-2.31	0.0	-26.12	58.86	0.15	-0.07	-0.07	274.04
		274.04	-0.07	-2.57e-05	0.0	41.5	-25.47	56.55	0.15	-0.07	-2.92e-03	297.97
88	24	317.08	-7.32e-03	-4.25e-04	-2.31	0.0	-27.66	62.18	0.14	-0.07	-0.06	291.77
		291.77	-0.06	-2.02e-05	0.0	41.5	-27.00	59.86	0.14	-0.07	-7.32e-03	317.08
88	26	317.08	-3.17e-03	-4.25e-04	-2.31	0.0	-27.66	62.18	0.15	-0.07	-0.07	291.77
		291.77	-0.07	-2.50e-05	0.0	41.5	-27.00	59.86	0.15	-0.07	-3.17e-03	317.08
88	27	297.97	-7.75e-03	-4.00e-04	-2.31	0.0	-26.12	58.86	0.13	-0.06	-0.06	274.04
		274.04	-0.06	-2.00e-05	0.0	41.5	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
88	28	297.97	-3.61e-03	-4.00e-04	-2.31	0.0	-26.12	58.86	0.15	-0.07	-0.07	274.04
		274.04	-0.07	-2.49e-05	0.0	41.5	-25.47	56.55	0.15	-0.07	-3.61e-03	297.97
88	29	287.89	-94.23	-3.82e-04	-2.31	0.0	-15.78	55.14	-24.45	38.14	-94.23	265.47
		265.47	-104.40	3.93e-03	0.0	41.5	-15.13	52.83	-24.45	38.14	-104.40	287.89
88	36	308.05	104.39	-4.18e-04	-2.31	0.0	-36.46	62.58	24.75	-38.28	94.10	282.61
		282.61	94.10	-3.98e-03	0.0	41.5	-35.81	60.26	24.75	-38.28	104.39	308.05
88	61	296.31	-34.37	-3.83e-04	-2.31	0.0	2.77	54.47	-6.36	8.90	-34.37	274.16
		274.16	-37.15	9.30e-04	0.0	41.5	3.43	52.16	-6.36	8.90	-37.15	296.31
88	68	299.63	37.14	-4.16e-04	-2.31	0.0	-55.02	63.25	6.66	-9.04	34.23	273.92
		273.92	34.23	-9.80e-04	0.0	41.5	-54.37	60.93	6.66	-9.04	37.14	299.63
88	93	299.84	-49.15	-4.00e-04	-2.31	0.0	-21.99	58.71	-12.68	19.79	-49.15	275.98
		275.98	-54.31	2.02e-03	0.0	41.5	-21.34	56.40	-12.68	19.79	-54.31	299.84
88	96	296.09	54.30	-3.99e-04	-2.31	0.0	-30.25	59.01	12.98	-19.94	49.02	272.10
		272.10	49.02	-2.07e-03	0.0	41.5	-29.60	56.69	12.98	-19.94	54.30	296.09
88	109	304.19	-18.12	-4.01e-04	-2.31	0.0	-12.40	58.37	-3.20	4.53	-18.12	280.47
		280.47	-19.42	4.63e-04	0.0	41.5	-11.74	56.05	-3.20	4.53	-19.42	304.19
88	112	291.74	19.41	-3.99e-04	-2.31	0.0	-39.85	59.35	3.50	-4.67	17.99	267.61
		267.61	17.99	-5.13e-04	0.0	41.5	-39.20	57.04	3.50	-4.67	19.41	291.74
88	126	347.26	-30.19	-4.64e-04	-2.31	0.0	-26.00	70.02	-6.77	10.73	-30.19	318.83
		318.83	-32.29	1.11e-03	0.0	41.5	-25.35	67.70	-6.77	10.73	-32.29	347.26
88	131	248.68	32.28	-3.36e-04	-2.31	0.0	-26.24	47.70	7.07	-10.87	30.05	229.25
		229.25	30.05	-1.16e-03	0.0	41.5	-25.59	45.39	7.07	-10.87	32.28	248.68
88	157	297.97	-7.75e-03	-4.00e-04	-2.31	0.0	-26.12	58.86	0.13	-0.06	-0.06	274.04
		274.04	-0.06	-2.00e-05	0.0	41.5	-25.47	56.55	0.13	-0.06	-7.75e-03	297.97
88	158	297.97	-3.61e-03	-4.00e-04	-2.31	0.0	-26.12	58.86	0.15	-0.07	-0.07	274.04
		274.04	-0.07	-2.49e-05	0.0	41.5	-25.47	56.55	0.15	-0.07	-3.61e-03	297.97
89	5	388.66	0.22	7.98e-05	-1.32	0.0	-23.09	-47.87	-0.13	0.06	0.22	388.66
		376.87	0.19	1.07e-05	0.0	24.3	-23.46	-49.19	-0.13	0.06	0.19	376.87
89	7	388.66	0.31	7.98e-05	-1.32	0.0	-23.09	-47.87	-0.17	0.09	0.31	388.66
		376.87	0.27	1.75e-05	0.0	24.3	-23.46	-49.19	-0.17	0.09	0.27	376.87
89	9	692.01	0.34	1.42e-04	-1.72	0.0	-41.38	-87.16	-0.20	0.10	0.34	692.01
		670.63	0.29	1.52e-05	0.0	24.3	-41.87	-88.88	-0.20	0.10	0.29	670.63
89	11	692.01	0.40	1.42e-04	-1.72	0.0	-41.38	-87.16	-0.23	0.11	0.40	692.01
		670.63	0.34	1.99e-05	0.0	24.3	-41.87	-88.88	-0.23	0.11	0.34	670.63
89	15	388.75	0.22	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.13	0.06	0.22	388.75
		376.95	0.19	1.10e-05	0.0	24.3	-23.40	-49.21	-0.13	0.06	0.19	376.95
89	17	388.75	0.28	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.16	0.08	0.28	388.75
		376.95	0.24	1.55e-05	0.0	24.3	-23.40	-49.21	-0.16	0.08	0.24	376.95
89	19	513.12	0.26	1.05e-04	-1.32	0.0	-30.70	-64.48	-0.15	0.07	0.26	513.12
		497.29	0.22	1.14e-05	0.0	24.3	-31.07	-65.80	-0.15	0.07	0.22	497.29
89	21	513.12	0.30	1.05e-04	-1.32	0.0	-30.70	-64.48	-0.17	0.08	0.30	513.12
		497.29	0.26	1.45e-05	0.0	24.3	-31.07	-65.80	-0.17	0.08	0.26	497.29
89	22	388.75	0.22	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.13	0.06	0.22	388.75
		376.95	0.19	1.10e-05	0.0	24.3	-23.40	-49.21	-0.13	0.06	0.19	376.95
89	23	388.75	0.26	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.15	0.07	0.26	388.75
		376.95	0.23	1.42e-05	0.0	24.3	-23.40	-49.21	-0.15	0.07	0.23	376.95
89	24	413.62	0.23	8.49e-05	-1.32	0.0	-24.56	-51.20	-0.14	0.07	0.23	413.62
		401.02	0.20	1.11e-05	0.0	24.3	-24.93	-52.53	-0.14	0.07	0.20	401.02
89	26	413.62	0.26	8.49e-05	-1.32	0.0	-24.56	-51.20	-0.15	0.07	0.26	413.62
		401.02	0.23	1.38e-05	0.0	24.3	-24.93	-52.53	-0.15	0.07	0.23	401.02
89	27	388.75	0.22	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.13	0.06	0.22	388.75
		376.95	0.19	1.10e-05	0.0	24.3	-23.40	-49.21	-0.13	0.06	0.19	376.95
89	28	388.75	0.26	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.15	0.07	0.26	388.75
		376.95	0.22	1.37e-05	0.0	24.3	-23.40	-49.21	-0.15	0.07	0.22	376.95
89	47	372.37	-137.77	7.48e-05	-1.32	0.0	-13.67	-44.24	20.65	-38.14	-142.72	372.37
		361.45	-142.72	-1.41e-03	0.0	24.3	-14.05	-45.56	20.65	-38.14	-137.77	361.45
89	50	405.12	143.24	8.50e-05	-1.32	0.0	-32.37	-51.53	-20.95	38.28	143.24	405.12
		392.46	138.21	1.44e-03	0.0	24.3	-32.75	-52.85	-20.95	38.28	138.21	392.46
89	71	378.89	-45.20	7.21e-05	-1.32	0.0	2.42	-42.87	4.82	-8.90	-46.35	378.89
		368.31	-46.35	-2.40e-04	0.0	24.3	2.04	-44.19	4.82	-8.90	-45.20	368.31
89	74	398.60	46.86	8.76e-05	-1.32	0.0	-48.46	-52.90	-5.12	9.05	46.86	398.60
		385.60	45.64	2.67e-04	0.0	24.3	-48.84	-54.22	-5.12	9.05	45.64	385.60
89	102	390.21	-71.66	7.93e-05	-1.32	0.0	-19.44	-47.58	10.69	-19.79	-74.23	390.21
		378.49	-74.23	-7.24e-04	0.0	24.3	-19.82	-48.91	10.69	-19.79	-71.66	378.49
89	103	387.29	74.74	8.04e-05	-1.32	0.0	-26.60	-48.19	-10.99	19.94	74.74	387.29
		375.42	72.10	7.52e-04	0.0	24.3	-26.98	-49.51	-10.99	19.94	72.10	375.42
89	114	393.58	-23.50	7.79e-05	-1.32	0.0	-11.12	-46.87	2.38	-4.53	-24.07	393.58
		382.03	-24.07	-1.13e-04	0.0	24.3	-11.50	-48.20	2.38	-4.53	-23.50	382.03
89	115	383.91	24.59	8.18e-05	-1.32	0.0	-34.92	-48.90	-2.68	4.67	24.59	383.91
		371.87	23.95	1.40e-04	0.0	24.3	-35.30	-50.22	-2.68	4.67	23.95	371.87
89	144	455.56	-41.87	9.20e-05	-1.32	0.0	-24.21	-57.50	5.51	-10.73	-43.21	455.56
		441.47	-43.21	-3.72e-04	0.0	24.3	-24.58	-58.82	5.51	-10.73	-41.87	441.47

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
89	145	321.94	43.73	6.78e-05	-1.32	0.0	-21.84	-38.27	-5.81	10.87	43.73	321.94
		312.44	42.31	4.00e-04	0.0	24.3	-22.21	-39.59	-5.81	10.87	42.31	312.44
89	157	388.75	0.22	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.13	0.06	0.22	388.75
		376.95	0.19	1.10e-05	0.0	24.3	-23.40	-49.21	-0.13	0.06	0.19	376.95
89	158	388.75	0.26	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.15	0.07	0.26	388.75
		376.95	0.22	1.37e-05	0.0	24.3	-23.40	-49.21	-0.15	0.07	0.22	376.95
90	3	356.37	0.88	1.90e-03	-7.83	0.0	-47.48	-124.63	0.91	0.11	-0.09	356.37
		217.66	-0.09	1.02e-04	0.0	107.9	-49.69	-132.46	0.91	0.11	0.88	217.66
90	5	274.05	0.42	1.46e-03	-6.02	0.0	-36.64	-95.84	0.44	0.06	-0.06	274.05
		167.39	-0.06	5.16e-05	0.0	107.9	-38.34	-101.86	0.44	0.06	0.42	167.39
90	7	274.05	0.73	1.46e-03	-6.02	0.0	-36.64	-95.84	0.74	0.09	-0.07	274.05
		167.39	-0.07	8.38e-05	0.0	107.9	-38.34	-101.86	0.74	0.09	0.73	167.39
90	9	489.41	0.56	2.60e-03	-7.83	0.0	-65.80	-173.62	0.61	0.10	-0.09	489.41
		297.84	-0.09	7.31e-05	0.0	107.9	-68.01	-181.45	0.61	0.10	0.56	297.84
90	11	489.41	0.78	2.60e-03	-7.83	0.0	-65.80	-173.62	0.82	0.11	-0.10	489.41
		297.84	-0.10	9.56e-05	0.0	107.9	-68.01	-181.45	0.82	0.11	0.78	297.84
90	15	274.10	0.43	1.46e-03	-6.02	0.0	-36.57	-95.86	0.45	0.06	-0.06	274.10
		167.41	-0.06	5.28e-05	0.0	107.9	-38.27	-101.88	0.45	0.06	0.43	167.41
90	17	274.10	0.64	1.46e-03	-6.02	0.0	-36.57	-95.86	0.66	0.08	-0.07	274.10
		167.41	-0.07	7.43e-05	0.0	107.9	-38.27	-101.88	0.66	0.08	0.64	167.41
90	19	362.79	0.42	1.93e-03	-6.02	0.0	-48.79	-128.52	0.46	0.07	-0.07	362.79
		220.87	-0.07	5.50e-05	0.0	107.9	-50.49	-134.54	0.46	0.07	0.42	220.87
90	21	362.79	0.57	1.93e-03	-6.02	0.0	-48.79	-128.52	0.60	0.08	-0.07	362.79
		220.87	-0.07	7.00e-05	0.0	107.9	-50.49	-134.54	0.60	0.08	0.57	220.87
90	22	274.10	0.43	1.46e-03	-6.02	0.0	-36.57	-95.86	0.45	0.06	-0.06	274.10
		167.41	-0.06	5.28e-05	0.0	107.9	-38.27	-101.88	0.45	0.06	0.43	167.41
90	23	274.10	0.58	1.46e-03	-6.02	0.0	-36.57	-95.86	0.59	0.07	-0.07	274.10
		167.41	-0.07	6.78e-05	0.0	107.9	-38.27	-101.88	0.59	0.07	0.58	167.41
90	24	291.84	0.43	1.55e-03	-6.02	0.0	-39.02	-102.39	0.45	0.07	-0.06	291.84
		178.10	-0.06	5.32e-05	0.0	107.9	-40.72	-108.41	0.45	0.07	0.43	178.10
90	26	291.84	0.55	1.55e-03	-6.02	0.0	-39.02	-102.39	0.58	0.07	-0.07	291.84
		178.10	-0.07	6.61e-05	0.0	107.9	-40.72	-108.41	0.58	0.07	0.55	178.10
90	27	274.10	0.43	1.46e-03	-6.02	0.0	-36.57	-95.86	0.45	0.06	-0.06	274.10
		167.41	-0.06	5.28e-05	0.0	107.9	-38.27	-101.88	0.45	0.06	0.43	167.41
90	28	274.10	0.55	1.46e-03	-6.02	0.0	-36.57	-95.86	0.57	0.07	-0.07	274.10
		167.41	-0.07	6.57e-05	0.0	107.9	-38.27	-101.88	0.57	0.07	0.55	167.41
90	48	290.16	-53.06	1.54e-03	-6.02	0.0	-25.61	-101.81	37.35	-38.09	-94.48	290.16
		177.08	-94.48	-0.01	0.0	107.9	-27.31	-107.83	37.35	-38.09	-53.06	177.08
90	49	258.03	94.35	1.39e-03	-6.02	0.0	-47.54	-89.91	-36.21	38.24	94.35	258.03
		157.74	54.17	0.01	0.0	107.9	-49.24	-95.93	-36.21	38.24	54.17	157.74
90	71	274.21	-20.04	1.42e-03	-6.02	0.0	8.88	-94.88	9.81	-8.90	-34.37	274.21
		168.56	-34.37	-2.69e-03	0.0	107.9	7.18	-100.90	9.81	-8.90	-20.04	168.56
90	74	273.98	34.23	1.50e-03	-6.02	0.0	-82.03	-96.84	-8.66	9.04	34.23	273.98
		166.26	21.15	2.82e-03	0.0	107.9	-83.73	-102.86	-8.66	9.04	21.15	166.26
90	102	276.03	-27.36	1.46e-03	-6.02	0.0	-29.83	-96.45	19.69	-19.79	-49.15	276.03
		168.71	-49.15	-5.62e-03	0.0	107.9	-31.53	-102.48	19.69	-19.79	-27.36	168.71
90	103	272.16	49.02	1.46e-03	-6.02	0.0	-43.32	-95.26	-18.54	19.94	49.02	272.16
		166.12	28.47	5.75e-03	0.0	107.9	-45.02	-101.29	-18.54	19.94	28.47	166.12
90	110	280.53	-9.42	1.47e-03	-6.02	0.0	-14.14	-97.84	4.86	-4.70	-16.73	280.53
		171.71	-16.73	-1.31e-03	0.0	107.9	-15.85	-103.86	4.86	-4.70	-9.42	171.71
90	111	267.66	16.60	1.45e-03	-6.02	0.0	-59.00	-93.88	-3.71	4.85	16.60	267.66
		163.11	10.53	1.44e-03	0.0	107.9	-60.70	-99.90	-3.71	4.85	10.53	163.11
90	114	280.53	-10.22	1.47e-03	-6.02	0.0	-14.14	-97.84	5.39	-4.53	-18.12	280.53
		171.71	-18.12	-1.34e-03	0.0	107.9	-15.85	-103.86	5.39	-4.53	-10.22	171.71
90	115	267.66	17.99	1.45e-03	-6.02	0.0	-59.00	-93.88	-4.24	4.67	17.99	267.66
		163.11	11.33	1.47e-03	0.0	107.9	-60.70	-99.90	-4.24	4.67	11.33	163.11
90	144	318.91	-16.36	1.69e-03	-6.02	0.0	-30.49	-113.01	11.46	-10.73	-30.19	318.91
		193.79	-30.19	-3.10e-03	0.0	107.9	-32.19	-119.03	11.46	-10.73	-16.36	193.79
90	145	229.28	30.05	1.23e-03	-6.02	0.0	-42.66	-78.71	-10.31	10.87	30.05	229.28
		141.04	17.47	3.24e-03	0.0	107.9	-44.36	-84.73	-10.31	10.87	17.47	141.04
90	157	274.10	0.43	1.46e-03	-6.02	0.0	-36.57	-95.86	0.45	0.06	-0.06	274.10
		167.41	-0.06	5.28e-05	0.0	107.9	-38.27	-101.88	0.45	0.06	0.43	167.41
90	158	274.10	0.55	1.46e-03	-6.02	0.0	-36.57	-95.86	0.57	0.07	-0.07	274.10
		167.41	-0.07	6.57e-05	0.0	107.9	-38.27	-101.88	0.57	0.07	0.55	167.41
91	3	72.51	1.86	1.05e-03	-2.10	0.0	-67.41	-195.19	-5.02	0.11	1.86	72.51
		0.0	0.0	4.64e-05	0.0	36.9	-68.00	-197.30	-5.02	0.11	0.0	0.0
91	5	55.76	0.89	8.10e-04	-1.62	0.0	-51.97	-150.12	-2.40	0.06	0.89	55.76
		0.0	0.0	2.31e-05	0.0	36.9	-52.43	-151.73	-2.40	0.06	0.0	0.0
91	7	55.76	1.53	8.10e-04	-1.62	0.0	-51.97	-150.12	-4.14	0.09	1.53	55.76
		0.0	0.0	3.81e-05	0.0	36.9	-52.43	-151.73	-4.14	0.09	0.0	0.0
91	9	100.23	1.21	1.44e-03	-2.10	0.0	-93.09	-270.24	-3.29	0.10	1.21	100.23
		0.0	0.0	3.24e-05	0.0	36.9	-93.69	-272.34	-3.29	0.10	0.0	0.0

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
91	11	100.23	1.66	1.44e-03	-2.10	0.0	-93.09	-270.24	-4.50	0.11	1.66	100.23
		0.0	0.0	4.29e-05	0.0	36.9	-93.69	-272.34	-4.50	0.11	0.0	0.0
91	15	55.77	0.91	8.10e-04	-1.62	0.0	-51.90	-150.14	-2.47	0.06	0.91	55.77
		0.0	0.0	2.36e-05	0.0	36.9	-52.36	-151.75	-2.47	0.06	0.0	0.0
91	17	55.77	1.34	8.10e-04	-1.62	0.0	-51.90	-150.14	-3.63	0.08	1.34	55.77
		0.0	0.0	3.37e-05	0.0	36.9	-52.36	-151.75	-3.63	0.08	0.0	0.0
91	19	74.25	0.91	1.07e-03	-1.62	0.0	-69.03	-200.16	-2.47	0.07	0.91	74.25
		0.0	0.0	2.44e-05	0.0	36.9	-69.48	-201.78	-2.47	0.07	0.0	0.0
91	21	74.25	1.21	1.07e-03	-1.62	0.0	-69.03	-200.16	-3.28	0.08	1.21	74.25
		0.0	0.0	3.14e-05	0.0	36.9	-69.48	-201.78	-3.28	0.08	0.0	0.0
91	22	55.77	0.91	8.10e-04	-1.62	0.0	-51.90	-150.14	-2.47	0.06	0.91	55.77
		0.0	0.0	2.36e-05	0.0	36.9	-52.36	-151.75	-2.47	0.06	0.0	0.0
91	23	55.77	1.21	8.10e-04	-1.62	0.0	-51.90	-150.14	-3.28	0.07	1.21	55.77
		0.0	0.0	3.07e-05	0.0	36.9	-52.36	-151.75	-3.28	0.07	0.0	0.0
91	24	59.46	0.91	8.62e-04	-1.62	0.0	-55.33	-160.14	-2.47	0.07	0.91	59.46
		0.0	0.0	2.38e-05	0.0	36.9	-55.79	-161.76	-2.47	0.07	0.0	0.0
91	26	59.46	1.17	8.62e-04	-1.62	0.0	-55.33	-160.14	-3.17	0.07	1.17	59.46
		0.0	0.0	2.98e-05	0.0	36.9	-55.79	-161.76	-3.17	0.07	0.0	0.0
91	27	55.77	0.91	8.10e-04	-1.62	0.0	-51.90	-150.14	-2.47	0.06	0.91	55.77
		0.0	0.0	2.36e-05	0.0	36.9	-52.36	-151.75	-2.47	0.06	0.0	0.0
91	28	55.77	1.17	8.10e-04	-1.62	0.0	-51.90	-150.14	-3.17	0.07	1.17	55.77
		0.0	0.0	2.97e-05	0.0	36.9	-52.36	-151.75	-3.17	0.07	0.0	0.0
91	47	54.87	0.0	7.87e-04	-1.62	0.0	-30.56	-147.72	32.05	-38.14	-11.84	54.87
		0.0	-11.84	-3.25e-03	0.0	36.9	-31.02	-149.34	32.05	-38.14	0.0	0.0
91	50	56.66	14.18	8.34e-04	-1.62	0.0	-73.25	-152.55	-38.38	38.28	14.18	56.66
		0.0	0.0	3.31e-03	0.0	36.9	-73.70	-154.17	-38.38	38.28	0.0	0.0
91	64	61.37	0.0	8.66e-04	-1.62	0.0	10.77	-165.29	13.12	-9.18	-4.85	61.37
		0.0	-4.85	-6.47e-04	0.0	36.9	10.31	-166.90	13.12	-9.18	0.0	0.0
91	71	57.40	0.0	8.04e-04	-1.62	0.0	14.60	-154.56	14.25	-8.90	-5.27	57.40
		0.0	-5.27	-8.03e-04	0.0	36.9	14.14	-156.18	14.25	-8.90	0.0	0.0
91	74	54.13	7.61	8.16e-04	-1.62	0.0	-118.41	-145.71	-20.59	9.04	7.61	54.13
		0.0	0.0	8.63e-04	0.0	36.9	-118.87	-147.33	-20.59	9.04	0.0	0.0
91	102	56.33	0.0	8.14e-04	-1.62	0.0	-41.86	-151.66	14.99	-19.79	-5.54	56.33
		0.0	-5.54	-1.63e-03	0.0	36.9	-42.32	-153.28	14.99	-19.79	0.0	0.0
91	103	55.21	7.88	8.06e-04	-1.62	0.0	-61.95	-148.61	-21.32	19.94	7.88	55.21
		0.0	0.0	1.69e-03	0.0	36.9	-62.41	-150.23	-21.32	19.94	0.0	0.0
91	110	57.64	0.0	8.23e-04	-1.62	0.0	-18.50	-155.20	5.59	-4.70	-2.06	57.64
		0.0	-2.06	-2.99e-04	0.0	36.9	-18.96	-156.81	5.59	-4.70	0.0	0.0
91	111	53.90	4.40	7.98e-04	-1.62	0.0	-85.31	-145.07	-11.92	4.85	4.40	53.90
		0.0	0.0	3.58e-04	0.0	36.9	-85.76	-146.69	-11.92	4.85	0.0	0.0
91	114	57.64	0.0	8.23e-04	-1.62	0.0	-18.50	-155.20	5.90	-4.53	-2.18	57.64
		0.0	-2.18	-3.85e-04	0.0	36.9	-18.96	-156.81	5.90	-4.53	0.0	0.0
91	144	63.46	0.0	9.21e-04	-1.62	0.0	-38.90	-170.95	8.00	-10.73	-2.96	63.46
		0.0	-2.96	-9.23e-04	0.0	36.9	-39.36	-172.56	8.00	-10.73	0.0	0.0
91	157	55.77	0.91	8.10e-04	-1.62	0.0	-51.90	-150.14	-2.47	0.06	0.91	55.77
		0.0	0.0	2.36e-05	0.0	36.9	-52.36	-151.75	-2.47	0.06	0.0	0.0
91	158	55.77	1.17	8.10e-04	-1.62	0.0	-51.90	-150.14	-3.17	0.07	1.17	55.77
		0.0	0.0	2.97e-05	0.0	36.9	-52.36	-151.75	-3.17	0.07	0.0	0.0
92	3	72.51	1.94	-1.05e-03	-2.10	0.0	-68.00	197.30	5.25	-0.12	0.0	0.0
		0.0	0.0	-4.33e-05	0.0	36.9	-67.41	195.20	5.25	-0.12	1.94	72.51
92	5	55.76	0.92	-8.11e-04	-1.62	0.0	-52.43	151.73	2.50	-0.07	0.0	0.0
		0.0	0.0	-2.17e-05	0.0	36.9	-51.97	150.12	2.50	-0.07	0.92	55.76
92	9	100.23	1.26	-1.44e-03	-2.10	0.0	-93.69	272.34	3.42	-0.11	0.0	0.0
		0.0	0.0	-3.06e-05	0.0	36.9	-93.09	270.24	3.42	-0.11	1.26	100.23
92	11	100.23	1.73	-1.44e-03	-2.10	0.0	-93.69	272.34	4.69	-0.13	0.0	0.0
		0.0	0.0	-4.02e-05	0.0	36.9	-93.09	270.24	4.69	-0.13	1.73	100.23
92	12	83.49	0.92	-1.20e-03	-1.62	0.0	-78.11	226.77	2.49	-0.09	0.0	0.0
		0.0	0.0	-2.27e-05	0.0	36.9	-77.66	225.16	2.49	-0.09	0.92	83.49
92	15	55.77	0.95	-8.11e-04	-1.62	0.0	-52.36	151.75	2.58	-0.07	0.0	0.0
		0.0	0.0	-2.23e-05	0.0	36.9	-51.91	150.14	2.58	-0.07	0.95	55.77
92	17	55.77	1.40	-8.11e-04	-1.62	0.0	-52.36	151.75	3.80	-0.09	0.0	0.0
		0.0	0.0	-3.15e-05	0.0	36.9	-51.91	150.14	3.80	-0.09	1.40	55.77
92	19	74.25	0.95	-1.07e-03	-1.62	0.0	-69.49	201.78	2.57	-0.08	0.0	0.0
		0.0	0.0	-2.30e-05	0.0	36.9	-69.03	200.16	2.57	-0.08	0.95	74.25
92	21	74.25	1.26	-1.07e-03	-1.62	0.0	-69.49	201.78	3.42	-0.09	0.0	0.0
		0.0	0.0	-2.94e-05	0.0	36.9	-69.03	200.16	3.42	-0.09	1.26	74.25
92	22	55.77	0.95	-8.11e-04	-1.62	0.0	-52.36	151.75	2.58	-0.07	0.0	0.0
		0.0	0.0	-2.23e-05	0.0	36.9	-51.91	150.14	2.58	-0.07	0.95	55.77
92	23	55.77	1.27	-8.11e-04	-1.62	0.0	-52.36	151.75	3.43	-0.08	0.0	0.0
		0.0	0.0	-2.87e-05	0.0	36.9	-51.91	150.14	3.43	-0.08	1.27	55.77
92	24	59.47	0.95	-8.63e-04	-1.62	0.0	-55.79	161.76	2.58	-0.07	0.0	0.0
		0.0	0.0	-2.24e-05	0.0	36.9	-55.33	160.14	2.58	-0.07	0.95	59.47

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
92	26	59.47	1.22	-8.63e-04	-1.62	0.0	-55.79	161.76	3.31	-0.08	0.0	0.0
		0.0	0.0	-2.79e-05	0.0	36.9	-55.33	160.14	3.31	-0.08	1.22	59.47
92	27	55.77	0.95	-8.11e-04	-1.62	0.0	-52.36	151.75	2.58	-0.07	0.0	0.0
		0.0	0.0	-2.23e-05	0.0	36.9	-51.91	150.14	2.58	-0.07	0.95	55.77
92	28	55.77	1.22	-8.11e-04	-1.62	0.0	-52.36	151.75	3.31	-0.08	0.0	0.0
		0.0	0.0	-2.78e-05	0.0	36.9	-51.91	150.14	3.31	-0.08	1.22	55.77
92	29	54.79	0.0	-7.87e-04	-1.62	0.0	-32.59	149.11	-31.80	38.10	0.0	0.0
		0.0	-11.75	3.25e-03	0.0	36.9	-32.13	147.49	-31.80	38.10	-11.75	54.79
92	36	56.74	14.19	-8.35e-04	-1.62	0.0	-72.13	154.40	38.42	-38.26	0.0	0.0
		0.0	0.0	-3.30e-03	0.0	36.9	-71.68	152.78	38.42	-38.26	14.19	56.74
92	78	61.38	0.0	-8.67e-04	-1.62	0.0	10.92	166.95	-11.85	9.62	0.0	0.0
		0.0	-4.38	8.48e-04	0.0	36.9	11.38	165.33	-11.85	9.62	-4.38	61.38
92	88	54.10	0.0	-8.16e-04	-1.62	0.0	-119.56	147.24	-0.10	13.90	0.0	0.0
		0.0	-0.04	9.34e-04	0.0	36.9	-119.11	145.62	-0.10	13.90	-0.04	54.10
92	89	57.44	2.48	-8.05e-04	-1.62	0.0	14.84	156.26	6.72	-14.06	0.0	0.0
		0.0	0.0	-9.89e-04	0.0	36.9	15.30	154.65	6.72	-14.06	2.48	57.44
92	93	56.28	0.0	-8.14e-04	-1.62	0.0	-43.19	153.14	-14.81	19.76	0.0	0.0
		0.0	-5.47	1.62e-03	0.0	36.9	-42.73	151.52	-14.81	19.76	-5.47	56.28
92	96	55.26	7.92	-8.07e-04	-1.62	0.0	-61.54	150.36	21.43	-19.93	0.0	0.0
		0.0	0.0	-1.68e-03	0.0	36.9	-61.08	148.75	21.43	-19.93	7.92	55.26
92	117	57.65	0.0	-8.24e-04	-1.62	0.0	-18.62	156.85	-4.77	4.94	0.0	0.0
		0.0	-1.76	4.10e-04	0.0	36.9	-18.17	155.23	-4.77	4.94	-1.76	57.65
92	122	53.88	0.57	-7.98e-04	-1.62	0.0	-86.14	146.65	1.54	7.25	0.0	0.0
		0.0	0.0	4.55e-04	0.0	36.9	-85.69	145.03	1.54	7.25	0.57	53.88
92	123	57.65	1.88	-8.24e-04	-1.62	0.0	-18.58	156.85	5.08	-7.41	0.0	0.0
		0.0	0.0	-5.10e-04	0.0	36.9	-18.12	155.24	5.08	-7.41	1.88	57.65
92	154	63.45	4.26	-9.21e-04	-1.62	0.0	-39.14	172.54	11.54	-12.78	0.0	0.0
		0.0	0.0	-9.00e-04	0.0	36.9	-38.69	170.92	11.54	-12.78	4.26	63.45
92	157	55.77	0.95	-8.11e-04	-1.62	0.0	-52.36	151.75	2.58	-0.07	0.0	0.0
		0.0	0.0	-2.23e-05	0.0	36.9	-51.91	150.14	2.58	-0.07	0.95	55.77
92	158	55.77	1.22	-8.11e-04	-1.62	0.0	-52.36	151.75	3.31	-0.08	0.0	0.0
		0.0	0.0	-2.78e-05	0.0	36.9	-51.91	150.14	3.31	-0.08	1.22	55.77
93	4	600.71	0.45	2.89e-04	-8.85	0.0	-13.45	3.80	0.0	0.13	0.45	599.69
		598.91	0.45	1.08e-04	0.0	125.1	-15.95	-5.05	0.0	0.13	0.45	598.91
93	5	390.46	0.25	1.88e-04	-6.81	0.0	-8.86	2.50	0.0	0.07	0.25	389.89
		388.76	0.25	5.32e-05	0.0	125.1	-10.79	-4.30	0.0	0.07	0.25	388.76
93	7	390.46	0.35	1.88e-04	-6.81	0.0	-8.86	2.50	0.0	0.10	0.35	389.89
		388.76	0.35	8.79e-05	0.0	125.1	-10.79	-4.30	0.0	0.10	0.35	388.76
93	9	693.63	0.37	3.33e-04	-8.85	0.0	-15.53	4.39	0.0	0.11	0.37	692.27
		692.22	0.37	7.47e-05	0.0	125.1	-18.02	-4.46	0.0	0.11	0.37	692.22
93	11	693.63	0.44	3.33e-04	-8.85	0.0	-15.53	4.39	0.0	0.13	0.44	692.27
		692.22	0.44	9.90e-05	0.0	125.1	-18.02	-4.46	0.0	0.13	0.44	692.22
93	15	390.57	0.25	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.07	0.25	390.00
		388.85	0.25	5.47e-05	0.0	125.1	-10.72	-4.32	0.0	0.07	0.25	388.85
93	17	390.57	0.31	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.09	0.31	390.00
		388.85	0.31	7.79e-05	0.0	125.1	-10.72	-4.32	0.0	0.09	0.31	388.85
93	18	452.48	0.33	2.18e-04	-6.81	0.0	-10.18	2.88	0.0	0.09	0.33	451.72
		451.06	0.33	7.86e-05	0.0	125.1	-12.11	-3.93	0.0	0.09	0.33	451.06
93	19	514.42	0.28	2.47e-04	-6.81	0.0	-11.57	3.27	0.0	0.08	0.28	513.44
		513.27	0.28	5.61e-05	0.0	125.1	-13.49	-3.54	0.0	0.08	0.28	513.27
93	21	514.42	0.33	2.47e-04	-6.81	0.0	-11.57	3.27	0.0	0.09	0.33	513.44
		513.27	0.33	7.23e-05	0.0	125.1	-13.49	-3.54	0.0	0.09	0.33	513.27
93	22	390.57	0.25	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.07	0.25	390.00
		388.85	0.25	5.47e-05	0.0	125.1	-10.72	-4.32	0.0	0.07	0.25	388.85
93	23	390.57	0.29	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.08	0.29	390.00
		388.85	0.29	7.09e-05	0.0	125.1	-10.72	-4.32	0.0	0.08	0.29	388.85
93	24	415.33	0.25	2.00e-04	-6.81	0.0	-9.35	2.64	0.0	0.07	0.25	414.69
		413.74	0.25	5.50e-05	0.0	125.1	-11.27	-4.17	0.0	0.07	0.25	413.74
93	26	415.33	0.29	2.00e-04	-6.81	0.0	-9.35	2.64	0.0	0.08	0.29	414.69
		413.74	0.29	6.89e-05	0.0	125.1	-11.27	-4.17	0.0	0.08	0.29	413.74
93	27	390.57	0.25	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.07	0.25	390.00
		388.85	0.25	5.47e-05	0.0	125.1	-10.72	-4.32	0.0	0.07	0.25	388.85
93	28	390.57	0.29	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.08	0.29	390.00
		388.85	0.29	6.86e-05	0.0	125.1	-10.72	-4.32	0.0	0.08	0.29	388.85
93	47	372.49	-139.98	1.72e-04	-6.81	0.0	-4.96	5.52	-2.01	-38.10	-139.98	369.93
		369.93	-142.59	-4.96e-03	0.0	125.1	-6.88	-1.28	-2.01	-38.10	-142.59	372.28
93	50	410.07	143.16	2.04e-04	-6.81	0.0	-12.64	-0.55	2.01	38.26	140.55	410.07
		405.43	140.55	5.09e-03	0.0	125.1	-14.56	-7.36	2.01	38.26	143.16	405.43
93	102	391.15	-72.73	1.84e-04	-6.81	0.0	-8.29	3.56	-1.09	-19.76	-72.73	390.00
		390.00	-74.15	-2.53e-03	0.0	125.1	-10.21	-3.24	-1.09	-19.76	-74.15	390.18
93	103	390.19	74.72	1.91e-04	-6.81	0.0	-9.30	1.41	1.09	19.93	73.30	390.01
		387.53	73.30	2.66e-03	0.0	125.1	-11.22	-5.40	1.09	19.93	74.72	387.53

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
93	117	390.00	-19.13	2.00e-04	-6.81	0.0	-10.70	-1.42	-0.11	-7.25	-21.23	390.00
		383.96	-21.23	-1.25e-03	0.0	125.1	-12.63	-8.23	-0.11	-7.25	-19.13	383.96
93	120	393.76	21.80	1.76e-04	-6.81	0.0	-6.89	6.39	0.11	7.41	21.80	390.00
		390.00	19.70	1.38e-03	0.0	125.1	-8.81	-0.42	0.11	7.41	19.70	393.75
93	121	390.00	-20.34	2.00e-04	-6.81	0.0	-10.70	-1.42	-1.43	-7.07	-21.28	390.00
		383.96	-21.28	-1.16e-03	0.0	125.1	-12.63	-8.23	-1.43	-7.07	-20.34	383.96
93	124	393.76	21.85	1.76e-04	-6.81	0.0	-6.89	6.39	1.43	7.24	21.85	390.00
		390.00	20.91	1.29e-03	0.0	125.1	-8.81	-0.42	1.43	7.24	20.91	393.75
93	133	323.76	-39.32	1.63e-04	-6.81	0.0	-0.38	3.36	1.12	-12.62	-41.72	323.13
		322.15	-41.72	-1.93e-03	0.0	125.1	-2.31	-3.45	1.12	-12.62	-39.32	322.15
93	140	457.38	42.29	2.12e-04	-6.81	0.0	-17.21	1.61	-1.12	12.78	42.29	456.87
		455.56	39.89	2.07e-03	0.0	125.1	-19.13	-5.19	-1.12	12.78	39.89	455.56
93	150	456.87	-41.11	2.26e-04	-6.81	0.0	-19.42	-2.91	-1.42	-12.13	-41.25	456.87
		449.88	-41.25	-1.75e-03	0.0	125.1	-21.35	-9.72	-1.42	-12.13	-41.11	449.88
93	155	327.83	41.82	1.49e-04	-6.81	0.0	1.83	7.88	1.42	12.29	41.82	323.14
		323.14	41.68	1.88e-03	0.0	125.1	-0.09	1.07	1.42	12.29	41.68	327.83
93	157	390.57	0.25	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.07	0.25	390.00
		388.85	0.25	5.47e-05	0.0	125.1	-10.72	-4.32	0.0	0.07	0.25	388.85
93	158	390.57	0.29	1.88e-04	-6.81	0.0	-8.80	2.48	0.0	0.08	0.29	390.00
		388.85	0.29	6.86e-05	0.0	125.1	-10.72	-4.32	0.0	0.08	0.29	388.85
94	4	598.92	0.45	-1.23e-04	-1.72	0.0	-36.11	76.43	0.45	-0.13	0.34	580.56
		580.56	0.34	-2.25e-05	0.0	24.3	-35.62	74.71	0.45	-0.13	0.45	598.92
94	5	388.77	0.25	-7.99e-05	-1.32	0.0	-23.47	49.19	0.23	-0.07	0.19	376.98
		376.98	0.19	-1.11e-05	0.0	24.3	-23.09	47.87	0.23	-0.07	0.25	388.77
94	7	388.77	0.35	-7.99e-05	-1.32	0.0	-23.47	49.19	0.36	-0.10	0.26	376.98
		376.98	0.26	-1.82e-05	0.0	24.3	-23.09	47.87	0.36	-0.10	0.35	388.77
94	9	692.23	0.37	-1.42e-04	-1.72	0.0	-41.87	88.88	0.34	-0.11	0.29	670.85
		670.85	0.29	-1.57e-05	0.0	24.3	-41.38	87.16	0.34	-0.11	0.37	692.23
94	11	692.23	0.44	-1.42e-04	-1.72	0.0	-41.87	88.88	0.43	-0.13	0.34	670.84
		670.84	0.34	-2.07e-05	0.0	24.3	-41.38	87.16	0.43	-0.13	0.44	692.23
94	15	388.86	0.25	-7.99e-05	-1.32	0.0	-23.40	49.21	0.23	-0.07	0.19	377.06
		377.06	0.19	-1.14e-05	0.0	24.3	-23.02	47.88	0.23	-0.07	0.25	388.86
94	17	388.86	0.31	-7.99e-05	-1.32	0.0	-23.40	49.21	0.32	-0.09	0.23	377.06
		377.06	0.23	-1.61e-05	0.0	24.3	-23.02	47.88	0.32	-0.09	0.31	388.86
94	18	451.07	0.33	-9.26e-05	-1.32	0.0	-27.24	57.50	0.33	-0.09	0.25	437.26
		437.26	0.25	-1.63e-05	0.0	24.3	-26.86	56.18	0.33	-0.09	0.33	451.07
94	19	513.27	0.28	-1.05e-04	-1.32	0.0	-31.08	65.80	0.25	-0.08	0.22	497.45
		497.45	0.22	-1.18e-05	0.0	24.3	-30.70	64.48	0.25	-0.08	0.28	513.27
94	21	513.27	0.33	-1.05e-04	-1.32	0.0	-31.08	65.80	0.31	-0.09	0.25	497.45
		497.45	0.25	-1.51e-05	0.0	24.3	-30.70	64.48	0.31	-0.09	0.33	513.27
94	22	388.86	0.25	-7.99e-05	-1.32	0.0	-23.40	49.21	0.23	-0.07	0.19	377.06
		377.06	0.19	-1.14e-05	0.0	24.3	-23.02	47.88	0.23	-0.07	0.25	388.86
94	23	388.86	0.29	-7.99e-05	-1.32	0.0	-23.40	49.21	0.29	-0.08	0.22	377.06
		377.06	0.22	-1.47e-05	0.0	24.3	-23.02	47.88	0.29	-0.08	0.29	388.86
94	24	413.74	0.25	-8.50e-05	-1.32	0.0	-24.93	52.53	0.24	-0.07	0.20	401.14
		401.14	0.20	-1.15e-05	0.0	24.3	-24.56	51.20	0.24	-0.07	0.25	413.74
94	26	413.74	0.29	-8.50e-05	-1.32	0.0	-24.93	52.53	0.29	-0.08	0.22	401.14
		401.14	0.22	-1.43e-05	0.0	24.3	-24.56	51.20	0.29	-0.08	0.29	413.74
94	27	388.86	0.25	-7.99e-05	-1.32	0.0	-23.40	49.21	0.23	-0.07	0.19	377.06
		377.06	0.19	-1.14e-05	0.0	24.3	-23.02	47.88	0.23	-0.07	0.25	388.86
94	28	388.86	0.29	-7.99e-05	-1.32	0.0	-23.40	49.21	0.28	-0.08	0.22	377.06
		377.06	0.22	-1.43e-05	0.0	24.3	-23.02	47.88	0.28	-0.08	0.29	388.86
94	29	372.28	-137.75	-7.49e-05	-1.32	0.0	-14.61	45.60	-20.92	38.10	-137.75	361.34
		361.34	-142.59	1.41e-03	0.0	24.3	-12.24	44.28	-20.92	38.10	-142.59	372.28
94	36	405.44	143.16	-8.49e-05	-1.32	0.0	-32.18	52.81	21.49	-38.26	138.19	392.79
		392.79	138.19	-1.44e-03	0.0	24.3	-31.81	51.49	21.49	-38.26	143.16	405.44
94	88	398.57	-35.34	-8.76e-05	-1.32	0.0	-49.03	54.29	-5.40	13.90	-35.34	385.56
		385.56	-37.05	5.93e-04	0.0	24.3	-48.65	52.96	-5.40	13.90	-37.05	398.57
94	89	379.14	37.62	-7.21e-05	-1.32	0.0	2.23	44.13	5.97	-14.06	35.77	368.57
		368.57	35.77	-6.22e-04	0.0	24.3	2.61	42.81	5.97	-14.06	37.62	379.14
94	93	390.18	-71.66	-7.94e-05	-1.32	0.0	-20.13	48.92	-10.77	19.76	-71.66	378.46
		378.46	-74.15	7.23e-04	0.0	24.3	-19.76	47.60	-10.77	19.76	-74.15	390.18
94	96	387.53	74.72	-8.04e-05	-1.32	0.0	-26.66	49.49	11.34	-19.93	72.09	375.67
		375.67	72.09	-7.52e-04	0.0	24.3	-26.29	48.17	11.34	-19.93	74.72	387.53
94	122	383.97	-18.26	-8.18e-05	-1.32	0.0	-35.40	50.26	-2.72	7.25	-18.26	371.92
		371.92	-19.13	3.04e-04	0.0	24.3	-35.03	48.93	-2.72	7.25	-19.13	383.97
94	123	393.75	19.70	-7.79e-05	-1.32	0.0	-11.39	48.16	3.29	-7.41	18.69	382.21
		382.21	18.69	-3.32e-04	0.0	24.3	-11.02	46.84	3.29	-7.41	19.70	393.75
94	151	322.15	-37.70	-6.78e-05	-1.32	0.0	-22.26	39.64	-6.37	12.62	-37.70	312.64
		312.64	-39.32	5.01e-04	0.0	24.3	-21.89	38.32	-6.37	12.62	-39.32	322.15
94	154	455.57	39.89	-9.19e-05	-1.32	0.0	-24.53	58.78	6.94	-12.78	38.13	441.49
		441.49	38.13	-5.29e-04	0.0	24.3	-24.16	57.45	6.94	-12.78	39.89	455.57

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
94	157	388.86	0.25	-7.99e-05	-1.32	0.0	-23.40	49.21	0.23	-0.07	0.19	377.06
		377.06	0.19	-1.14e-05	0.0	24.3	-23.02	47.88	0.23	-0.07	0.25	388.86
94	158	388.86	0.29	-7.99e-05	-1.32	0.0	-23.40	49.21	0.28	-0.08	0.22	377.06
		377.06	0.22	-1.43e-05	0.0	24.3	-23.02	47.88	0.28	-0.08	0.29	388.86
95	4	580.56	0.34	1.40e-03	-9.54	0.0	-36.11	-76.43	-0.45	0.13	0.34	580.56
		459.26	-0.33	1.42e-04	0.0	149.4	-38.80	-85.97	-0.45	0.13	-0.33	459.26
95	5	376.98	0.19	9.08e-04	-7.34	0.0	-23.47	-49.19	-0.23	0.07	0.19	376.98
		298.02	-0.16	7.08e-05	0.0	149.4	-25.54	-56.53	-0.23	0.07	-0.16	298.02
95	7	376.98	0.26	9.08e-04	-7.34	0.0	-23.47	-49.19	-0.36	0.10	0.26	376.98
		298.02	-0.28	1.15e-04	0.0	149.4	-25.54	-56.53	-0.36	0.10	-0.28	298.02
95	9	670.85	0.29	1.61e-03	-9.54	0.0	-41.87	-88.88	-0.34	0.11	0.29	670.85
		530.96	-0.21	1.00e-04	0.0	149.4	-44.56	-98.42	-0.34	0.11	-0.21	530.96
95	11	670.85	0.34	1.61e-03	-9.54	0.0	-41.87	-88.88	-0.43	0.13	0.34	670.85
		530.96	-0.30	1.31e-04	0.0	149.4	-44.56	-98.42	-0.43	0.13	-0.30	530.96
95	15	377.07	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.23	0.07	0.19	377.07
		298.08	-0.16	7.25e-05	0.0	149.4	-25.47	-56.55	-0.23	0.07	-0.16	298.08
95	17	377.06	0.23	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.32	0.09	0.23	377.06
		298.08	-0.24	1.02e-04	0.0	149.4	-25.47	-56.55	-0.32	0.09	-0.24	298.08
95	18	437.26	0.25	1.05e-03	-7.34	0.0	-27.24	-57.50	-0.33	0.09	0.25	437.26
		345.88	-0.24	1.03e-04	0.0	149.4	-29.31	-64.84	-0.33	0.09	-0.24	345.88
95	19	497.45	0.22	1.20e-03	-7.34	0.0	-31.08	-65.80	-0.25	0.08	0.22	497.45
		393.68	-0.16	7.54e-05	0.0	149.4	-33.15	-73.14	-0.25	0.08	-0.16	393.68
95	21	497.45	0.25	1.20e-03	-7.34	0.0	-31.08	-65.80	-0.31	0.09	0.25	497.45
		393.68	-0.22	9.59e-05	0.0	149.4	-33.15	-73.14	-0.31	0.09	-0.22	393.68
95	22	377.07	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.23	0.07	0.19	377.07
		298.08	-0.16	7.25e-05	0.0	149.4	-25.47	-56.55	-0.23	0.07	-0.16	298.08
95	23	377.07	0.22	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.29	0.08	0.22	377.07
		298.08	-0.22	9.30e-05	0.0	149.4	-25.47	-56.55	-0.29	0.08	-0.22	298.08
95	24	401.14	0.20	9.66e-04	-7.34	0.0	-24.93	-52.53	-0.24	0.07	0.20	401.14
		317.20	-0.16	7.31e-05	0.0	149.4	-27.01	-59.86	-0.24	0.07	-0.16	317.20
95	26	401.14	0.22	9.66e-04	-7.34	0.0	-24.93	-52.53	-0.29	0.08	0.22	401.14
		317.20	-0.21	9.06e-05	0.0	149.4	-27.01	-59.86	-0.29	0.08	-0.21	317.20
95	27	377.07	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.23	0.07	0.19	377.07
		298.08	-0.16	7.25e-05	0.0	149.4	-25.47	-56.55	-0.23	0.07	-0.16	298.08
95	28	377.07	0.22	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.28	0.08	0.22	377.07
		298.08	-0.21	9.00e-05	0.0	149.4	-25.47	-56.55	-0.28	0.08	-0.21	298.08
95	47	361.34	-101.20	8.61e-04	-7.34	0.0	-14.17	-45.54	22.94	-38.10	-137.75	361.34
		287.73	-137.75	-0.01	0.0	149.4	-16.25	-52.88	22.94	-38.10	-101.20	287.73
95	50	392.79	138.19	9.55e-04	-7.34	0.0	-32.62	-52.88	-23.51	38.26	138.19	392.79
		308.44	100.79	0.01	0.0	149.4	-34.69	-60.21	-23.51	38.26	100.79	308.44
95	78	385.56	-32.69	9.63e-04	-7.34	0.0	-50.82	-53.97	5.97	-13.90	-35.34	385.56
		299.57	-35.34	-4.36e-03	0.0	149.4	-52.90	-61.31	5.97	-13.90	-32.69	299.57
95	83	368.57	35.77	8.53e-04	-7.34	0.0	4.03	-44.45	-6.54	14.06	35.77	368.57
		296.60	32.27	4.54e-03	0.0	149.4	1.96	-51.78	-6.54	14.06	32.27	296.60
95	102	378.46	-52.78	9.06e-04	-7.34	0.0	-19.89	-48.99	11.83	-19.76	-71.66	378.46
		299.79	-71.66	-5.95e-03	0.0	149.4	-21.96	-56.33	11.83	-19.76	-52.78	299.79
95	103	375.67	72.09	9.09e-04	-7.34	0.0	-26.91	-49.42	-12.40	19.93	72.09	375.67
		296.37	52.37	6.13e-03	0.0	149.4	-28.98	-56.76	-12.40	19.93	52.37	296.37
95	117	371.92	-17.11	9.14e-04	-7.34	0.0	-36.35	-49.99	3.02	-7.25	-18.26	371.92
		291.77	-18.26	-2.23e-03	0.0	149.4	-38.42	-57.33	3.02	-7.25	-17.11	291.77
95	120	382.21	18.69	9.02e-04	-7.34	0.0	-10.45	-48.43	-3.59	7.41	18.69	382.21
		304.39	16.70	2.42e-03	0.0	149.4	-12.52	-55.77	-3.59	7.41	16.70	304.39
95	133	312.64	-29.33	7.64e-04	-7.34	0.0	-22.93	-38.82	6.88	-12.62	-37.70	312.64
		248.82	-37.70	-3.85e-03	0.0	149.4	-25.00	-46.16	6.88	-12.62	-29.33	248.82
95	140	441.49	38.13	1.05e-03	-7.34	0.0	-23.87	-59.60	-7.45	12.78	38.13	441.49
		347.34	28.91	4.03e-03	0.0	149.4	-25.94	-66.94	-7.45	12.78	28.91	347.34
95	157	377.07	0.19	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.23	0.07	0.19	377.07
		298.08	-0.16	7.25e-05	0.0	149.4	-25.47	-56.55	-0.23	0.07	-0.16	298.08
95	158	377.07	0.22	9.08e-04	-7.34	0.0	-23.40	-49.21	-0.28	0.08	0.22	377.07
		298.08	-0.21	9.00e-05	0.0	149.4	-25.47	-56.55	-0.28	0.08	-0.21	298.08
96	4	580.56	0.34	-1.40e-03	-9.54	0.0	-38.80	85.97	0.45	-0.13	-0.33	459.26
		459.26	-0.33	-1.42e-04	0.0	149.4	-36.11	76.43	0.45	-0.13	0.34	580.56
96	5	376.98	0.19	-9.08e-04	-7.34	0.0	-25.54	56.53	0.23	-0.07	-0.16	298.03
		298.03	-0.16	-7.08e-05	0.0	149.4	-23.47	49.19	0.23	-0.07	0.19	376.98
96	7	376.98	0.26	-9.08e-04	-7.34	0.0	-25.54	56.53	0.36	-0.10	-0.28	298.02
		298.02	-0.28	-1.15e-04	0.0	149.4	-23.47	49.19	0.36	-0.10	0.26	376.98
96	9	670.85	0.29	-1.61e-03	-9.54	0.0	-44.56	98.42	0.34	-0.11	-0.21	530.96
		530.96	-0.21	-1.00e-04	0.0	149.4	-41.87	88.88	0.34	-0.11	0.29	670.85
96	11	670.84	0.34	-1.61e-03	-9.54	0.0	-44.56	98.42	0.43	-0.13	-0.30	530.96
		530.96	-0.30	-1.31e-04	0.0	149.4	-41.87	88.88	0.43	-0.13	0.34	670.84
96	15	377.06	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.23	-0.07	-0.16	298.08
		298.08	-0.16	-7.25e-05	0.0	149.4	-23.40	49.21	0.23	-0.07	0.19	377.06

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
96	17	377.06	0.23	-9.08e-04	-7.34	0.0	-25.47	56.55	0.32	-0.09	-0.24	298.08
		298.08	-0.24	-1.02e-04	0.0	149.4	-23.40	49.21	0.32	-0.09	0.23	377.06
96	18	437.26	0.25	-1.05e-03	-7.34	0.0	-29.31	64.84	0.33	-0.09	-0.24	345.88
		345.88	-0.24	-1.03e-04	0.0	149.4	-27.24	57.50	0.33	-0.09	0.25	437.26
96	19	497.45	0.22	-1.20e-03	-7.34	0.0	-33.15	73.14	0.25	-0.08	-0.16	393.68
		393.68	-0.16	-7.54e-05	0.0	149.4	-31.08	65.80	0.25	-0.08	0.22	497.45
96	21	497.45	0.25	-1.20e-03	-7.34	0.0	-33.15	73.14	0.31	-0.09	-0.22	393.68
		393.68	-0.22	-9.59e-05	0.0	149.4	-31.08	65.80	0.31	-0.09	0.25	497.45
96	22	377.06	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.23	-0.07	-0.16	298.08
		298.08	-0.16	-7.25e-05	0.0	149.4	-23.40	49.21	0.23	-0.07	0.19	377.06
96	23	377.06	0.22	-9.08e-04	-7.34	0.0	-25.47	56.55	0.29	-0.08	-0.22	298.08
		298.08	-0.22	-9.30e-05	0.0	149.4	-23.40	49.21	0.29	-0.08	0.22	377.06
96	24	401.14	0.20	-9.66e-04	-7.34	0.0	-27.01	59.86	0.24	-0.07	-0.16	317.20
		317.20	-0.16	-7.31e-05	0.0	149.4	-24.93	52.53	0.24	-0.07	0.20	401.14
96	26	401.14	0.22	-9.66e-04	-7.34	0.0	-27.01	59.86	0.29	-0.08	-0.21	317.20
		317.20	-0.21	-9.06e-05	0.0	149.4	-24.93	52.53	0.29	-0.08	0.22	401.14
96	27	377.06	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.23	-0.07	-0.16	298.08
		298.08	-0.16	-7.25e-05	0.0	149.4	-23.40	49.21	0.23	-0.07	0.19	377.06
96	28	377.06	0.22	-9.08e-04	-7.34	0.0	-25.47	56.55	0.28	-0.08	-0.21	298.08
		298.08	-0.21	-9.00e-05	0.0	149.4	-23.40	49.21	0.28	-0.08	0.22	377.06
96	29	361.34	-101.21	-8.61e-04	-7.34	0.0	-16.25	52.88	-22.94	38.10	-101.21	287.73
		287.73	-137.75	0.01	0.0	149.4	-14.17	45.54	-22.94	38.10	-137.75	361.34
96	36	392.79	138.19	-9.55e-04	-7.34	0.0	-34.70	60.21	23.51	-38.26	100.79	308.44
		308.44	100.79	-0.01	0.0	149.4	-32.62	52.88	23.51	-38.26	138.19	392.79
96	88	385.56	-32.69	-9.63e-04	-7.34	0.0	-52.90	61.31	-5.97	13.90	-32.69	299.57
		299.57	-35.34	4.36e-03	0.0	149.4	-50.82	53.97	-5.97	13.90	-35.34	385.56
96	89	368.57	35.77	-8.53e-04	-7.34	0.0	1.96	51.78	6.54	-14.06	32.27	296.60
		296.60	32.27	-4.54e-03	0.0	149.4	4.03	44.45	6.54	-14.06	35.77	368.57
96	93	378.46	-52.78	-9.06e-04	-7.34	0.0	-21.96	56.33	-11.83	19.76	-52.78	299.79
		299.79	-71.66	5.95e-03	0.0	149.4	-19.89	48.99	-11.83	19.76	-71.66	378.46
96	96	375.67	72.09	-9.09e-04	-7.34	0.0	-28.98	56.76	12.40	-19.93	52.37	296.37
		296.37	52.37	-6.13e-03	0.0	149.4	-26.91	49.42	12.40	-19.93	72.09	375.67
96	122	371.92	-17.11	-9.14e-04	-7.34	0.0	-38.42	57.33	-3.02	7.25	-17.11	291.77
		291.77	-18.26	2.23e-03	0.0	149.4	-36.35	49.99	-3.02	7.25	-18.26	371.92
96	123	382.21	18.69	-9.02e-04	-7.34	0.0	-12.52	55.77	3.59	-7.41	16.70	304.39
		304.39	16.70	-2.42e-03	0.0	149.4	-10.45	48.43	3.59	-7.41	18.69	382.21
96	151	312.64	-29.33	-7.64e-04	-7.34	0.0	-25.00	46.16	-6.88	12.62	-29.33	248.82
		248.82	-37.70	3.85e-03	0.0	149.4	-22.93	38.82	-6.88	12.62	-37.70	312.64
96	154	441.49	38.13	-1.05e-03	-7.34	0.0	-25.94	66.94	7.45	-12.78	28.91	347.34
		347.34	28.91	-4.03e-03	0.0	149.4	-23.87	59.60	7.45	-12.78	38.13	441.49
96	157	377.06	0.19	-9.08e-04	-7.34	0.0	-25.47	56.55	0.23	-0.07	-0.16	298.08
		298.08	-0.16	-7.25e-05	0.0	149.4	-23.40	49.21	0.23	-0.07	0.19	377.06
96	158	377.06	0.22	-9.08e-04	-7.34	0.0	-25.47	56.55	0.28	-0.08	-0.21	298.08
		298.08	-0.21	-9.00e-05	0.0	149.4	-23.40	49.21	0.28	-0.08	0.22	377.06
97	4	459.26	-0.33	6.16e-04	-3.01	0.0	-38.80	-85.97	-0.45	0.13	-0.33	459.26
		422.98	-0.52	3.83e-05	0.0	41.5	-39.65	-88.98	-0.45	0.13	-0.52	422.98
97	5	298.02	-0.16	4.00e-04	-2.31	0.0	-25.54	-56.53	-0.23	0.07	-0.16	298.02
		274.10	-0.25	1.92e-05	0.0	41.5	-26.19	-58.84	-0.23	0.07	-0.25	274.10
97	7	298.02	-0.28	4.00e-04	-2.31	0.0	-25.54	-56.53	-0.36	0.10	-0.28	298.02
		274.10	-0.43	3.08e-05	0.0	41.5	-26.19	-58.84	-0.36	0.10	-0.43	274.10
97	9	530.96	-0.21	7.11e-04	-3.01	0.0	-44.56	-98.42	-0.34	0.11	-0.21	530.96
		489.52	-0.35	2.73e-05	0.0	41.5	-45.41	-101.43	-0.34	0.11	-0.35	489.52
97	11	530.96	-0.30	7.11e-04	-3.01	0.0	-44.56	-98.42	-0.43	0.13	-0.30	530.96
		489.52	-0.47	3.55e-05	0.0	41.5	-45.41	-101.43	-0.43	0.13	-0.47	489.52
97	15	298.08	-0.16	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.23	0.07	-0.16	298.08
		274.15	-0.25	1.97e-05	0.0	41.5	-26.12	-58.86	-0.23	0.07	-0.25	274.15
97	17	298.08	-0.24	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.32	0.09	-0.24	298.08
		274.15	-0.37	2.74e-05	0.0	41.5	-26.12	-58.86	-0.32	0.09	-0.37	274.15
97	18	345.88	-0.24	4.64e-04	-2.31	0.0	-29.31	-64.84	-0.33	0.09	-0.24	345.88
		318.51	-0.38	2.78e-05	0.0	41.5	-29.96	-67.16	-0.33	0.09	-0.38	318.51
97	19	393.68	-0.16	5.28e-04	-2.31	0.0	-33.15	-73.14	-0.25	0.08	-0.16	393.68
		362.87	-0.26	2.05e-05	0.0	41.5	-33.80	-75.45	-0.25	0.08	-0.26	362.87
97	21	393.68	-0.22	5.28e-04	-2.31	0.0	-33.15	-73.14	-0.31	0.09	-0.22	393.68
		362.87	-0.35	2.60e-05	0.0	41.5	-33.80	-75.45	-0.31	0.09	-0.35	362.87
97	22	298.08	-0.16	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.23	0.07	-0.16	298.08
		274.15	-0.25	1.97e-05	0.0	41.5	-26.12	-58.86	-0.23	0.07	-0.25	274.15
97	23	298.08	-0.22	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.29	0.08	-0.22	298.08
		274.15	-0.34	2.51e-05	0.0	41.5	-26.12	-58.86	-0.29	0.08	-0.34	274.15
97	24	317.20	-0.16	4.26e-04	-2.31	0.0	-27.01	-59.86	-0.24	0.07	-0.16	317.20
		291.90	-0.26	1.98e-05	0.0	41.5	-27.66	-62.18	-0.24	0.07	-0.26	291.90
97	26	317.20	-0.21	4.26e-04	-2.31	0.0	-27.01	-59.86	-0.29	0.08	-0.21	317.20
		291.90	-0.33	2.45e-05	0.0	41.5	-27.66	-62.18	-0.29	0.08	-0.33	291.90

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
97	27	298.08	-0.16	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.23	0.07	-0.16	298.08
		274.15	-0.25	1.97e-05	0.0	41.5	-26.12	-58.86	-0.23	0.07	-0.25	274.15
97	28	298.08	-0.21	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.28	0.08	-0.21	298.08
		274.15	-0.33	2.43e-05	0.0	41.5	-26.12	-58.86	-0.28	0.08	-0.33	274.15
97	46	308.39	-95.40	4.18e-04	-2.31	0.0	-35.29	-60.23	23.77	-39.71	-105.12	308.39
		282.96	-105.12	-4.09e-03	0.0	41.5	-35.95	-62.54	23.77	-39.71	-95.40	282.96
97	51	287.78	104.70	3.82e-04	-2.31	0.0	-15.65	-52.86	-24.34	39.87	104.70	287.78
		265.34	94.75	4.14e-03	0.0	41.5	-16.30	-55.18	-24.34	39.87	94.75	265.34
97	78	299.57	-30.07	4.16e-04	-2.31	0.0	-54.89	-60.90	6.51	-13.90	-32.69	299.57
		273.87	-32.69	-1.37e-03	0.0	41.5	-55.55	-63.22	6.51	-13.90	-30.07	273.87
97	83	296.60	32.27	3.84e-04	-2.31	0.0	3.95	-52.19	-7.08	14.06	32.27	296.60
		274.44	29.42	1.42e-03	0.0	41.5	3.30	-54.51	-7.08	14.06	29.42	274.44
97	101	296.35	-49.75	4.00e-04	-2.31	0.0	-29.31	-56.68	12.33	-20.67	-54.79	296.35
		272.36	-54.79	-2.11e-03	0.0	41.5	-29.96	-58.99	12.33	-20.67	-49.75	272.36
97	104	299.82	54.37	4.00e-04	-2.31	0.0	-21.63	-56.41	-12.90	20.83	54.37	299.82
		275.94	49.10	2.16e-03	0.0	41.5	-22.29	-58.73	-12.90	20.83	49.10	275.94
97	117	291.77	-15.79	3.99e-04	-2.31	0.0	-39.48	-57.03	3.30	-7.25	-17.11	291.77
		267.64	-17.11	-7.04e-04	0.0	41.5	-40.13	-59.34	3.30	-7.25	-15.79	267.64
97	120	304.39	16.70	4.01e-04	-2.31	0.0	-11.46	-56.06	-3.87	7.41	16.70	304.39
		280.66	15.14	7.52e-04	0.0	41.5	-12.12	-58.38	-3.87	7.41	15.14	280.66
97	133	248.82	-26.43	3.36e-04	-2.31	0.0	-25.74	-45.41	7.24	-12.62	-29.33	248.82
		229.39	-29.33	-1.25e-03	0.0	41.5	-26.40	-47.73	7.24	-12.62	-26.43	229.39
97	140	347.34	28.91	4.64e-04	-2.31	0.0	-25.20	-67.68	-7.81	12.78	28.91	347.34
		318.92	25.78	1.30e-03	0.0	41.5	-25.85	-69.99	-7.81	12.78	25.78	318.92
97	157	298.08	-0.16	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.23	0.07	-0.16	298.08
		274.15	-0.25	1.97e-05	0.0	41.5	-26.12	-58.86	-0.23	0.07	-0.25	274.15
97	158	298.08	-0.21	4.00e-04	-2.31	0.0	-25.47	-56.55	-0.28	0.08	-0.21	298.08
		274.15	-0.33	2.43e-05	0.0	41.5	-26.12	-58.86	-0.28	0.08	-0.33	274.15
98	3	356.47	0.72	-1.90e-03	-7.83	0.0	-49.69	132.46	-1.14	-0.12	0.72	217.76
		217.76	-0.51	-9.58e-05	0.0	107.9	-47.48	124.64	-1.14	-0.12	-0.51	356.47
98	4	423.02	0.71	-2.25e-03	-7.83	0.0	-58.85	156.96	-1.14	-0.13	0.71	257.87
		257.87	-0.52	-9.74e-05	0.0	107.9	-56.64	149.13	-1.14	-0.13	-0.52	423.02
98	5	274.12	0.34	-1.46e-03	-6.02	0.0	-38.34	101.86	-0.55	-0.07	0.34	167.46
		167.46	-0.25	-4.88e-05	0.0	107.9	-36.64	95.84	-0.55	-0.07	-0.25	274.12
98	7	274.12	0.59	-1.46e-03	-6.02	0.0	-38.34	101.86	-0.94	-0.10	0.59	167.46
		167.46	-0.43	-7.83e-05	0.0	107.9	-36.64	95.84	-0.94	-0.10	-0.43	274.12
98	9	489.56	0.46	-2.60e-03	-7.83	0.0	-68.02	181.45	-0.75	-0.11	0.46	297.99
		297.99	-0.35	-6.96e-05	0.0	107.9	-65.80	173.62	-0.75	-0.11	-0.35	489.56
98	11	489.56	0.63	-2.60e-03	-7.83	0.0	-68.02	181.45	-1.03	-0.13	0.63	297.99
		297.99	-0.47	-9.02e-05	0.0	107.9	-65.80	173.62	-1.03	-0.13	-0.47	489.56
98	15	274.17	0.35	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.56	-0.07	0.35	167.49
		167.49	-0.25	-5.01e-05	0.0	107.9	-36.57	95.86	-0.56	-0.07	-0.25	274.17
98	17	274.17	0.52	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.83	-0.09	0.52	167.49
		167.49	-0.37	-6.97e-05	0.0	107.9	-36.57	95.86	-0.83	-0.09	-0.37	274.17
98	18	318.53	0.51	-1.69e-03	-6.02	0.0	-44.38	118.21	-0.83	-0.09	0.51	194.23
		194.23	-0.38	-7.08e-05	0.0	107.9	-42.68	112.19	-0.83	-0.09	-0.38	318.53
98	19	362.90	0.34	-1.93e-03	-6.02	0.0	-50.49	134.54	-0.56	-0.08	0.34	220.97
		220.97	-0.26	-5.22e-05	0.0	107.9	-48.79	128.52	-0.56	-0.08	-0.26	362.90
98	21	362.90	0.46	-1.93e-03	-6.02	0.0	-50.49	134.54	-0.75	-0.09	0.46	220.97
		220.97	-0.35	-6.60e-05	0.0	107.9	-48.79	128.52	-0.75	-0.09	-0.35	362.90
98	22	274.17	0.35	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.56	-0.07	0.35	167.49
		167.49	-0.25	-5.01e-05	0.0	107.9	-36.57	95.86	-0.56	-0.07	-0.25	274.17
98	23	274.17	0.47	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.75	-0.08	0.47	167.49
		167.49	-0.34	-6.38e-05	0.0	107.9	-36.57	95.86	-0.75	-0.08	-0.34	274.17
98	24	291.92	0.35	-1.55e-03	-6.02	0.0	-40.72	108.41	-0.56	-0.07	0.35	178.18
		178.18	-0.26	-5.05e-05	0.0	107.9	-39.02	102.39	-0.56	-0.07	-0.26	291.92
98	26	291.92	0.45	-1.55e-03	-6.02	0.0	-40.72	108.41	-0.72	-0.08	0.45	178.18
		178.18	-0.33	-6.23e-05	0.0	107.9	-39.02	102.39	-0.72	-0.08	-0.33	291.92
98	27	274.17	0.35	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.56	-0.07	0.35	167.49
		167.49	-0.25	-5.01e-05	0.0	107.9	-36.57	95.86	-0.56	-0.07	-0.25	274.17
98	28	274.17	0.45	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.72	-0.08	0.45	167.49
		167.49	-0.33	-6.19e-05	0.0	107.9	-36.57	95.86	-0.72	-0.08	-0.33	274.17
98	32	282.98	-50.60	-1.52e-03	-6.02	0.0	-52.54	105.59	-38.94	39.71	-50.60	172.31
		172.31	-95.40	0.01	0.0	107.9	-50.84	99.57	-38.94	39.71	-95.40	282.98
98	33	265.36	94.75	-1.40e-03	-6.02	0.0	-24.01	98.17	37.50	-39.87	51.50	162.66
		162.66	51.50	-0.01	0.0	107.9	-22.31	92.15	37.50	-39.87	94.75	265.36
98	88	273.88	-10.45	-1.50e-03	-6.02	0.0	-84.29	102.81	-12.23	13.90	-10.45	166.21
		166.21	-30.07	3.68e-03	0.0	107.9	-82.58	96.79	-12.23	13.90	-30.07	273.88
98	89	274.46	29.42	-1.42e-03	-6.02	0.0	7.73	100.95	10.79	-14.06	11.35	168.76
		168.76	11.35	-3.80e-03	0.0	107.9	9.44	94.93	10.79	-14.06	29.42	274.46
98	94	272.38	-26.08	-1.46e-03	-6.02	0.0	-44.53	101.33	-20.61	20.67	-26.08	166.29
		166.29	-49.75	5.82e-03	0.0	107.9	-42.83	95.31	-20.61	20.67	-49.75	272.38

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
98	95	275.96	49.10	-1.46e-03	-6.02	0.0	-32.02	102.43	19.17	-20.83	26.98	168.68
		168.68	26.98	-5.94e-03	0.0	107.9	-30.32	96.41	19.17	-20.83	49.10	275.96
98	122	267.66	-5.17	-1.45e-03	-6.02	0.0	-61.01	99.89	-6.70	7.25	-5.17	163.13
		163.13	-15.79	1.88e-03	0.0	107.9	-59.30	93.86	-6.70	7.25	-15.79	267.66
98	123	280.68	15.14	-1.47e-03	-6.02	0.0	-15.55	103.88	5.26	-7.41	6.07	171.85
		171.85	6.07	-2.00e-03	0.0	107.9	-13.84	97.85	5.26	-7.41	15.14	280.68
98	151	229.40	-13.09	-1.23e-03	-6.02	0.0	-44.52	84.77	-11.11	12.62	-13.09	141.11
		141.11	-26.43	3.38e-03	0.0	107.9	-42.82	78.75	-11.11	12.62	-26.43	229.40
98	154	318.94	25.78	-1.70e-03	-6.02	0.0	-32.03	118.99	9.67	-12.78	13.99	193.86
		193.86	13.99	-3.50e-03	0.0	107.9	-30.33	112.97	9.67	-12.78	25.78	318.94
98	157	274.17	0.35	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.56	-0.07	0.35	167.49
		167.49	-0.25	-5.01e-05	0.0	107.9	-36.57	95.86	-0.56	-0.07	-0.25	274.17
98	158	274.17	0.45	-1.46e-03	-6.02	0.0	-38.28	101.88	-0.72	-0.08	0.45	167.49
		167.49	-0.33	-6.19e-05	0.0	107.9	-36.57	95.86	-0.72	-0.08	-0.33	274.17
99	3	217.76	1.94	2.68e-03	-6.10	0.0	-49.69	-132.46	1.14	0.12	0.72	217.76
		72.44	0.72	1.08e-04	0.0	107.2	-51.41	-138.57	1.14	0.12	1.94	72.44
99	5	167.46	0.92	2.06e-03	-4.70	0.0	-38.34	-101.86	0.55	0.07	0.34	167.46
		55.71	0.34	5.45e-05	0.0	107.2	-39.67	-106.56	0.55	0.07	0.92	55.71
99	7	167.46	1.60	2.06e-03	-4.70	0.0	-38.34	-101.86	0.94	0.10	0.59	167.46
		55.71	0.59	8.81e-05	0.0	107.2	-39.67	-106.56	0.94	0.10	1.60	55.71
99	9	297.99	1.26	3.66e-03	-6.10	0.0	-68.02	-181.45	0.75	0.11	0.46	297.99
		100.14	0.46	7.72e-05	0.0	107.2	-69.74	-187.56	0.75	0.11	1.26	100.14
99	11	297.99	1.73	3.66e-03	-6.10	0.0	-68.02	-181.45	1.03	0.13	0.63	297.99
		100.14	0.63	1.01e-04	0.0	107.2	-69.74	-187.56	1.03	0.13	1.73	100.14
99	12	247.69	0.92	3.05e-03	-4.70	0.0	-56.67	-150.85	0.55	0.09	0.33	247.69
		83.41	0.33	5.75e-05	0.0	107.2	-58.00	-155.55	0.55	0.09	0.92	83.41
99	15	167.49	0.95	2.06e-03	-4.70	0.0	-38.28	-101.88	0.56	0.07	0.35	167.49
		55.72	0.35	5.60e-05	0.0	107.2	-39.60	-106.58	0.56	0.07	0.95	55.72
99	17	167.49	1.40	2.06e-03	-4.70	0.0	-38.28	-101.88	0.83	0.09	0.52	167.49
		55.72	0.52	7.84e-05	0.0	107.2	-39.60	-106.58	0.83	0.09	1.40	55.72
99	19	220.97	0.95	2.72e-03	-4.70	0.0	-50.49	-134.54	0.56	0.08	0.34	220.97
		74.18	0.34	5.80e-05	0.0	107.2	-51.82	-139.24	0.56	0.08	0.95	74.18
99	21	220.97	1.26	2.72e-03	-4.70	0.0	-50.49	-134.54	0.75	0.09	0.46	220.97
		74.18	0.46	7.37e-05	0.0	107.2	-51.82	-139.24	0.75	0.09	1.26	74.18
99	22	167.49	0.95	2.06e-03	-4.70	0.0	-38.28	-101.88	0.56	0.07	0.35	167.49
		55.72	0.35	5.60e-05	0.0	107.2	-39.60	-106.58	0.56	0.07	0.95	55.72
99	23	167.49	1.27	2.06e-03	-4.70	0.0	-38.28	-101.88	0.75	0.08	0.47	167.49
		55.72	0.47	7.17e-05	0.0	107.2	-39.60	-106.58	0.75	0.08	1.27	55.72
99	24	178.18	0.95	2.19e-03	-4.70	0.0	-40.72	-108.41	0.56	0.07	0.35	178.18
		59.41	0.35	5.64e-05	0.0	107.2	-42.05	-113.11	0.56	0.07	0.95	59.41
99	26	178.18	1.22	2.19e-03	-4.70	0.0	-40.72	-108.41	0.72	0.08	0.45	178.18
		59.41	0.45	6.98e-05	0.0	107.2	-42.05	-113.11	0.72	0.08	1.22	59.41
99	27	167.49	0.95	2.06e-03	-4.70	0.0	-38.28	-101.88	0.56	0.07	0.35	167.49
		55.72	0.35	5.60e-05	0.0	107.2	-39.60	-106.58	0.56	0.07	0.95	55.72
99	28	167.49	1.22	2.06e-03	-4.70	0.0	-38.28	-101.88	0.72	0.08	0.45	167.49
		55.72	0.45	6.94e-05	0.0	107.2	-39.60	-106.58	0.72	0.08	1.22	55.72
99	47	162.63	-11.75	1.98e-03	-4.70	0.0	-23.64	-98.21	38.48	-38.10	-53.61	162.63
		54.73	-53.61	-0.01	0.0	107.2	-24.96	-102.90	38.48	-38.10	-11.75	54.73
99	50	172.35	54.51	2.13e-03	-4.70	0.0	-52.92	-105.56	-37.04	38.26	54.51	172.35
		56.71	14.19	0.01	0.0	107.2	-54.24	-110.25	-37.04	38.26	14.19	56.71
99	78	166.21	-0.04	2.09e-03	-4.70	0.0	-86.51	-102.29	12.69	-13.90	-10.45	166.21
		54.08	-10.45	-3.43e-03	0.0	107.2	-87.84	-106.98	12.69	-13.90	-0.04	54.08
99	83	168.76	11.35	2.02e-03	-4.70	0.0	9.96	-101.47	-11.25	14.06	11.35	168.76
		57.36	2.48	3.57e-03	0.0	107.2	8.63	-106.17	-11.25	14.06	2.48	57.36
99	102	168.66	-5.47	2.07e-03	-4.70	0.0	-31.81	-102.51	20.41	-19.76	-27.62	168.66
		56.22	-27.62	-5.54e-03	0.0	107.2	-33.14	-107.21	20.41	-19.76	-5.47	56.22
99	103	166.31	28.53	2.05e-03	-4.70	0.0	-44.74	-101.25	-18.97	19.93	28.53	166.31
		55.22	7.92	5.68e-03	0.0	107.2	-46.07	-105.95	-18.97	19.93	7.92	55.22
99	117	163.13	0.57	2.03e-03	-4.70	0.0	-62.17	-99.56	6.93	-7.25	-5.17	163.13
		53.85	-5.17	-1.72e-03	0.0	107.2	-63.50	-104.25	6.93	-7.25	0.57	53.85
99	120	171.85	6.07	2.09e-03	-4.70	0.0	-14.38	-104.21	-5.49	7.41	6.07	171.85
		57.59	1.88	1.86e-03	0.0	107.2	-15.71	-108.90	-5.49	7.41	1.88	57.59
99	133	141.11	-1.82	1.74e-03	-4.70	0.0	-45.29	-84.20	11.33	-12.62	-13.09	141.11
		48.06	-13.09	-3.16e-03	0.0	107.2	-46.62	-88.90	11.33	-12.62	-1.82	48.06
99	140	193.86	13.99	2.38e-03	-4.70	0.0	-31.26	-119.56	-9.89	12.78	13.99	193.86
		63.38	4.26	3.30e-03	0.0	107.2	-32.59	-124.26	-9.89	12.78	4.26	63.38
99	157	167.49	0.95	2.06e-03	-4.70	0.0	-38.28	-101.88	0.56	0.07	0.35	167.49
		55.72	0.35	5.60e-05	0.0	107.2	-39.60	-106.58	0.56	0.07	0.95	55.72
99	158	167.49	1.22	2.06e-03	-4.70	0.0	-38.28	-101.88	0.72	0.08	0.45	167.49
		55.72	0.45	6.94e-05	0.0	107.2	-39.60	-106.58	0.72	0.08	1.22	55.72
100	3	217.76	1.94	-2.68e-03	-6.10	0.0	-51.41	138.57	-1.14	-0.12	1.94	72.44
		72.44	0.72	-1.08e-04	0.0	107.2	-49.69	132.46	-1.14	-0.12	0.72	217.76

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
100	5	167.46	0.92	-2.06e-03	-4.70	0.0	-39.67	106.56	-0.55	-0.07	0.92	55.71
		55.71	0.34	-5.45e-05	0.0	107.2	-38.34	101.86	-0.55	-0.07	0.34	167.46
100	7	167.46	1.60	-2.06e-03	-4.70	0.0	-39.67	106.56	-0.94	-0.10	1.60	55.71
		55.71	0.59	-8.81e-05	0.0	107.2	-38.34	101.86	-0.94	-0.10	0.59	167.46
100	9	297.99	1.26	-3.66e-03	-6.10	0.0	-69.74	187.56	-0.75	-0.11	1.26	100.14
		100.14	0.46	-7.72e-05	0.0	107.2	-68.02	181.45	-0.75	-0.11	0.46	297.99
100	11	297.99	1.73	-3.66e-03	-6.10	0.0	-69.74	187.56	-1.03	-0.13	1.73	100.14
		100.14	0.63	-1.01e-04	0.0	107.2	-68.02	181.45	-1.03	-0.13	0.63	297.99
100	12	247.69	0.92	-3.05e-03	-4.70	0.0	-58.00	155.55	-0.55	-0.09	0.92	83.41
		83.41	0.33	-5.75e-05	0.0	107.2	-56.67	150.85	-0.55	-0.09	0.33	247.69
100	15	167.49	0.95	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.56	-0.07	0.95	55.72
		55.72	0.35	-5.60e-05	0.0	107.2	-38.28	101.88	-0.56	-0.07	0.35	167.49
100	17	167.49	1.40	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.83	-0.09	1.40	55.72
		55.72	0.52	-7.84e-05	0.0	107.2	-38.28	101.88	-0.83	-0.09	0.52	167.49
100	19	220.97	0.95	-2.72e-03	-4.70	0.0	-51.82	139.24	-0.56	-0.08	0.95	74.18
		74.18	0.34	-5.80e-05	0.0	107.2	-50.49	134.54	-0.56	-0.08	0.34	220.97
100	21	220.97	1.26	-2.72e-03	-4.70	0.0	-51.82	139.24	-0.75	-0.09	1.26	74.18
		74.18	0.46	-7.37e-05	0.0	107.2	-50.49	134.54	-0.75	-0.09	0.46	220.97
100	22	167.49	0.95	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.56	-0.07	0.95	55.72
		55.72	0.35	-5.60e-05	0.0	107.2	-38.28	101.88	-0.56	-0.07	0.35	167.49
100	23	167.49	1.27	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.75	-0.08	1.27	55.72
		55.72	0.47	-7.17e-05	0.0	107.2	-38.28	101.88	-0.75	-0.08	0.47	167.49
100	24	178.18	0.95	-2.19e-03	-4.70	0.0	-42.05	113.11	-0.56	-0.07	0.95	59.41
		59.41	0.35	-5.64e-05	0.0	107.2	-40.72	108.41	-0.56	-0.07	0.35	178.18
100	26	178.18	1.22	-2.19e-03	-4.70	0.0	-42.05	113.11	-0.72	-0.08	1.22	59.41
		59.41	0.45	-6.98e-05	0.0	107.2	-40.72	108.41	-0.72	-0.08	0.45	178.18
100	27	167.49	0.95	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.56	-0.07	0.95	55.72
		55.72	0.35	-5.60e-05	0.0	107.2	-38.28	101.88	-0.56	-0.07	0.35	167.49
100	28	167.49	1.22	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.72	-0.08	1.22	55.72
		55.72	0.45	-6.94e-05	0.0	107.2	-38.28	101.88	-0.72	-0.08	0.45	167.49
100	29	162.63	-11.75	-1.98e-03	-4.70	0.0	-24.96	102.90	-38.48	38.10	-11.75	54.73
		54.73	-53.61	0.01	0.0	107.2	-23.64	98.21	-38.48	38.10	-53.61	162.63
100	36	172.35	54.51	-2.13e-03	-4.70	0.0	-54.24	110.25	37.04	-38.26	14.19	56.71
		56.71	14.19	-0.01	0.0	107.2	-52.92	105.56	37.04	-38.26	54.51	172.35
100	88	166.21	-0.04	-2.09e-03	-4.70	0.0	-87.84	106.98	-12.69	13.90	-0.04	54.08
		54.08	-10.45	3.43e-03	0.0	107.2	-86.51	102.29	-12.69	13.90	-10.45	166.21
100	89	168.76	11.35	-2.02e-03	-4.70	0.0	8.63	106.17	11.25	-14.06	2.48	57.36
		57.36	2.48	-3.57e-03	0.0	107.2	9.96	101.47	11.25	-14.06	11.35	168.76
100	93	168.66	-5.47	-2.07e-03	-4.70	0.0	-33.14	107.21	-20.41	19.76	-5.47	56.22
		56.22	-27.62	5.54e-03	0.0	107.2	-31.81	102.51	-20.41	19.76	-27.62	168.66
100	96	166.31	28.53	-2.05e-03	-4.70	0.0	-46.07	105.95	18.97	-19.93	7.92	55.22
		55.22	7.92	-5.68e-03	0.0	107.2	-44.74	101.25	18.97	-19.93	28.53	166.31
100	122	163.13	0.57	-2.03e-03	-4.70	0.0	-63.50	104.25	-6.93	7.25	0.57	53.85
		53.85	-5.17	1.72e-03	0.0	107.2	-62.17	99.56	-6.93	7.25	-5.17	163.13
100	123	171.85	6.07	-2.09e-03	-4.70	0.0	-15.71	108.90	5.49	-7.41	1.88	57.59
		57.59	1.88	-1.86e-03	0.0	107.2	-14.38	104.21	5.49	-7.41	6.07	171.85
100	151	141.11	-1.82	-1.74e-03	-4.70	0.0	-46.61	88.90	-11.33	12.62	-1.82	48.06
		48.06	-13.09	3.16e-03	0.0	107.2	-45.29	84.20	-11.33	12.62	-13.09	141.11
100	154	193.86	13.99	-2.38e-03	-4.70	0.0	-32.59	124.26	9.89	-12.78	4.26	63.38
		63.38	4.26	-3.30e-03	0.0	107.2	-31.26	119.56	9.89	-12.78	13.99	193.86
100	157	167.49	0.95	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.56	-0.07	0.95	55.72
		55.72	0.35	-5.60e-05	0.0	107.2	-38.28	101.88	-0.56	-0.07	0.35	167.49
100	158	167.49	1.22	-2.06e-03	-4.70	0.0	-39.60	106.58	-0.72	-0.08	1.22	55.72
		55.72	0.45	-6.94e-05	0.0	107.2	-38.28	101.88	-0.72	-0.08	0.45	167.49
101	4	600.71	0.45	-2.89e-04	-8.85	0.0	-15.95	5.05	0.0	-0.13	0.45	598.91
		598.91	0.45	-1.08e-04	0.0	125.1	-13.45	-3.80	0.0	-0.13	0.45	599.69
101	5	390.46	0.25	-1.88e-04	-6.81	0.0	-10.79	4.30	0.0	-0.07	0.25	388.76
		388.76	0.25	-5.32e-05	0.0	125.1	-8.86	-2.50	0.0	-0.07	0.25	389.89
101	7	390.46	0.35	-1.88e-04	-6.81	0.0	-10.79	4.30	0.0	-0.10	0.35	388.76
		388.76	0.35	-8.79e-05	0.0	125.1	-8.86	-2.50	0.0	-0.10	0.35	389.89
101	9	693.63	0.37	-3.33e-04	-8.85	0.0	-18.02	4.46	0.0	-0.11	0.37	692.22
		692.22	0.37	-7.47e-05	0.0	125.1	-15.53	-4.39	0.0	-0.11	0.37	692.27
101	11	693.63	0.44	-3.33e-04	-8.85	0.0	-18.02	4.46	0.0	-0.13	0.44	692.22
		692.22	0.44	-9.90e-05	0.0	125.1	-15.53	-4.39	0.0	-0.13	0.44	692.27
101	15	390.57	0.25	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.07	0.25	388.85
		388.85	0.25	-5.47e-05	0.0	125.1	-8.80	-2.48	0.0	-0.07	0.25	390.00
101	17	390.57	0.31	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.09	0.31	388.85
		388.85	0.31	-7.79e-05	0.0	125.1	-8.80	-2.48	0.0	-0.09	0.31	390.00
101	18	452.48	0.33	-2.18e-04	-6.81	0.0	-12.11	3.93	0.0	-0.09	0.33	451.06
		451.06	0.33	-7.86e-05	0.0	125.1	-10.18	-2.88	0.0	-0.09	0.33	451.72
101	19	514.42	0.28	-2.47e-04	-6.81	0.0	-13.49	3.54	0.0	-0.08	0.28	513.27
		513.27	0.28	-5.61e-05	0.0	125.1	-11.57	-3.27	0.0	-0.08	0.28	513.44

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
101	21	514.42	0.33	-2.47e-04	-6.81	0.0	-13.49	3.54	0.0	-0.09	0.33	513.27
		513.27	0.33	-7.23e-05	0.0	125.1	-11.57	-3.27	0.0	-0.09	0.33	513.44
101	22	390.57	0.25	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.07	0.25	388.85
		388.85	0.25	-5.47e-05	0.0	125.1	-8.80	-2.48	0.0	-0.07	0.25	390.00
101	23	390.57	0.29	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.08	0.29	388.85
		388.85	0.29	-7.09e-05	0.0	125.1	-8.80	-2.48	0.0	-0.08	0.29	390.00
101	24	415.33	0.25	-2.00e-04	-6.81	0.0	-11.27	4.17	0.0	-0.07	0.25	413.74
		413.74	0.25	-5.50e-05	0.0	125.1	-9.35	-2.64	0.0	-0.07	0.25	414.69
101	26	415.33	0.29	-2.00e-04	-6.81	0.0	-11.27	4.17	0.0	-0.08	0.29	413.74
		413.74	0.29	-6.89e-05	0.0	125.1	-9.35	-2.64	0.0	-0.08	0.29	414.69
101	27	390.57	0.25	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.07	0.25	388.85
		388.85	0.25	-5.47e-05	0.0	125.1	-8.80	-2.48	0.0	-0.07	0.25	390.00
101	28	390.57	0.29	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.08	0.29	388.85
		388.85	0.29	-6.86e-05	0.0	125.1	-8.80	-2.48	0.0	-0.08	0.29	390.00
101	29	372.49	-139.98	-1.72e-04	-6.81	0.0	-6.88	1.28	2.03	38.10	-142.59	372.28
		369.93	-142.59	4.96e-03	0.0	125.1	-4.96	-5.52	2.03	38.10	-139.98	369.93
101	36	410.07	143.16	-2.04e-04	-6.81	0.0	-14.56	7.36	-2.03	-38.26	143.16	405.43
		405.43	140.55	-5.09e-03	0.0	125.1	-12.64	0.55	-2.03	-38.26	140.55	410.07
101	93	391.15	-72.73	-1.84e-04	-6.81	0.0	-10.21	3.24	1.09	19.76	-74.15	390.18
		390.00	-74.15	2.53e-03	0.0	125.1	-8.29	-3.56	1.09	19.76	-72.73	390.00
101	96	390.19	74.72	-1.91e-04	-6.81	0.0	-11.22	5.40	-1.09	-19.93	74.72	387.53
		387.53	73.30	-2.66e-03	0.0	125.1	-9.30	-1.41	-1.09	-19.93	73.30	390.01
101	122	390.00	-19.13	-2.00e-04	-6.81	0.0	-12.63	8.23	0.11	7.25	-19.13	383.96
		383.96	-21.23	1.25e-03	0.0	125.1	-10.70	1.42	0.11	7.25	-21.23	390.00
101	123	393.76	21.80	-1.76e-04	-6.81	0.0	-8.81	0.42	-0.11	-7.41	19.70	393.75
		390.00	19.70	-1.38e-03	0.0	125.1	-6.89	-6.39	-0.11	-7.41	21.80	390.00
101	151	323.76	-39.32	-1.63e-04	-6.81	0.0	-2.31	3.45	-1.04	12.62	-39.32	322.15
		322.15	-41.72	1.93e-03	0.0	125.1	-0.38	-3.36	-1.04	12.62	-41.72	323.13
101	152	456.87	-38.83	-2.26e-04	-6.81	0.0	-21.35	9.72	-1.12	12.46	-38.83	449.88
		449.88	-41.16	1.92e-03	0.0	125.1	-19.42	2.91	-1.12	12.46	-41.16	456.87
101	153	327.83	41.73	-1.49e-04	-6.81	0.0	-0.09	-1.07	1.12	-12.62	39.40	327.83
		323.14	39.40	-2.06e-03	0.0	125.1	1.83	-7.88	1.12	-12.62	41.73	323.14
101	154	457.38	42.29	-2.12e-04	-6.81	0.0	-19.13	5.19	1.04	-12.78	39.89	455.56
		455.56	39.89	-2.07e-03	0.0	125.1	-17.21	-1.61	1.04	-12.78	42.29	456.87
101	157	390.57	0.25	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.07	0.25	388.85
		388.85	0.25	-5.47e-05	0.0	125.1	-8.80	-2.48	0.0	-0.07	0.25	390.00
101	158	390.57	0.29	-1.88e-04	-6.81	0.0	-10.72	4.32	0.0	-0.08	0.29	388.85
		388.85	0.29	-6.86e-05	0.0	125.1	-8.80	-2.48	0.0	-0.08	0.29	390.00
102	4	459.26	-0.33	-6.16e-04	-3.01	0.0	-39.65	88.98	0.45	-0.13	-0.52	422.99
		422.99	-0.52	-3.83e-05	0.0	41.5	-38.80	85.97	0.45	-0.13	-0.33	459.26
102	5	298.03	-0.16	-4.00e-04	-2.31	0.0	-26.19	58.84	0.23	-0.07	-0.25	274.10
		274.10	-0.25	-1.92e-05	0.0	41.5	-25.54	56.53	0.23	-0.07	-0.16	298.03
102	7	298.02	-0.28	-4.00e-04	-2.31	0.0	-26.19	58.84	0.36	-0.10	-0.43	274.10
		274.10	-0.43	-3.08e-05	0.0	41.5	-25.54	56.53	0.36	-0.10	-0.28	298.02
102	9	530.96	-0.21	-7.11e-04	-3.01	0.0	-45.41	101.43	0.34	-0.11	-0.35	489.52
		489.52	-0.35	-2.73e-05	0.0	41.5	-44.56	98.42	0.34	-0.11	-0.21	530.96
102	11	530.96	-0.30	-7.11e-04	-3.01	0.0	-45.41	101.43	0.43	-0.13	-0.47	489.52
		489.52	-0.47	-3.55e-05	0.0	41.5	-44.56	98.42	0.43	-0.13	-0.30	530.96
102	15	298.08	-0.16	-4.00e-04	-2.31	0.0	-26.12	58.86	0.23	-0.07	-0.25	274.15
		274.15	-0.25	-1.97e-05	0.0	41.5	-25.47	56.55	0.23	-0.07	-0.16	298.08
102	17	298.08	-0.24	-4.00e-04	-2.31	0.0	-26.12	58.86	0.32	-0.09	-0.37	274.15
		274.15	-0.37	-2.74e-05	0.0	41.5	-25.47	56.55	0.32	-0.09	-0.24	298.08
102	18	345.88	-0.24	-4.64e-04	-2.31	0.0	-29.96	67.16	0.33	-0.09	-0.38	318.51
		318.51	-0.38	-2.78e-05	0.0	41.5	-29.31	64.84	0.33	-0.09	-0.24	345.88
102	19	393.68	-0.16	-5.28e-04	-2.31	0.0	-33.80	75.45	0.25	-0.08	-0.26	362.87
		362.87	-0.26	-2.05e-05	0.0	41.5	-33.15	73.14	0.25	-0.08	-0.16	393.68
102	21	393.68	-0.22	-5.28e-04	-2.31	0.0	-33.80	75.45	0.31	-0.09	-0.35	362.87
		362.87	-0.35	-2.60e-05	0.0	41.5	-33.15	73.14	0.31	-0.09	-0.22	393.68
102	22	298.08	-0.16	-4.00e-04	-2.31	0.0	-26.12	58.86	0.23	-0.07	-0.25	274.15
		274.15	-0.25	-1.97e-05	0.0	41.5	-25.47	56.55	0.23	-0.07	-0.16	298.08
102	23	298.08	-0.22	-4.00e-04	-2.31	0.0	-26.12	58.86	0.29	-0.08	-0.34	274.15
		274.15	-0.34	-2.51e-05	0.0	41.5	-25.47	56.55	0.29	-0.08	-0.22	298.08
102	24	317.20	-0.16	-4.26e-04	-2.31	0.0	-27.66	62.18	0.24	-0.07	-0.26	291.90
		291.90	-0.26	-1.98e-05	0.0	41.5	-27.01	59.86	0.24	-0.07	-0.16	317.20
102	26	317.20	-0.21	-4.26e-04	-2.31	0.0	-27.66	62.18	0.29	-0.08	-0.33	291.90
		291.90	-0.33	-2.45e-05	0.0	41.5	-27.01	59.86	0.29	-0.08	-0.21	317.20
102	27	298.08	-0.16	-4.00e-04	-2.31	0.0	-26.12	58.86	0.23	-0.07	-0.25	274.15
		274.15	-0.25	-1.97e-05	0.0	41.5	-25.47	56.55	0.23	-0.07	-0.16	298.08
102	28	298.08	-0.21	-4.00e-04	-2.31	0.0	-26.12	58.86	0.28	-0.08	-0.33	274.15
		274.15	-0.33	-2.43e-05	0.0	41.5	-25.47	56.55	0.28	-0.08	-0.21	298.08
102	32	308.39	-95.40	-4.18e-04	-2.31	0.0	-35.95	62.54	-23.77	39.71	-95.40	282.96
		282.96	-105.12	4.09e-03	0.0	41.5	-35.29	60.23	-23.77	39.71	-105.12	308.39

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
102	33	287.78	104.70	-3.82e-04	-2.31	0.0	-16.30	55.18	24.34	-39.87	94.75	265.34
		265.34	94.75	-4.14e-03	0.0	41.5	-15.65	52.86	24.34	-39.87	104.70	287.78
102	88	299.57	-30.07	-4.16e-04	-2.31	0.0	-55.55	63.21	-6.51	13.90	-30.07	273.87
		273.87	-32.69	1.37e-03	0.0	41.5	-54.89	60.90	-6.51	13.90	-32.69	299.57
102	89	296.60	32.27	-3.84e-04	-2.31	0.0	3.30	54.51	7.08	-14.06	29.42	274.44
		274.44	29.42	-1.42e-03	0.0	41.5	3.95	52.19	7.08	-14.06	32.27	296.60
102	94	296.35	-49.75	-4.00e-04	-2.31	0.0	-29.96	58.99	-12.33	20.67	-49.75	272.36
		272.36	-54.79	2.11e-03	0.0	41.5	-29.31	56.68	-12.33	20.67	-54.79	296.35
102	95	299.82	54.37	-4.00e-04	-2.31	0.0	-22.29	58.73	12.90	-20.83	49.10	275.94
		275.94	49.10	-2.16e-03	0.0	41.5	-21.63	56.41	12.90	-20.83	54.37	299.82
102	122	291.77	-15.79	-3.99e-04	-2.31	0.0	-40.13	59.34	-3.30	7.25	-15.79	267.64
		267.64	-17.11	7.04e-04	0.0	41.5	-39.48	57.03	-3.30	7.25	-17.11	291.77
102	123	304.39	16.70	-4.01e-04	-2.31	0.0	-12.12	58.38	3.87	-7.41	15.14	280.66
		280.66	15.14	-7.52e-04	0.0	41.5	-11.46	56.06	3.87	-7.41	16.70	304.39
102	151	248.82	-26.43	-3.36e-04	-2.31	0.0	-26.39	47.73	-7.24	12.62	-26.43	229.39
		229.39	-29.33	1.25e-03	0.0	41.5	-25.74	45.41	-7.24	12.62	-29.33	248.82
102	154	347.34	28.91	-4.64e-04	-2.31	0.0	-25.85	69.99	7.81	-12.78	25.78	318.92
		318.92	25.78	-1.30e-03	0.0	41.5	-25.20	67.68	7.81	-12.78	28.91	347.34
102	157	298.08	-0.16	-4.00e-04	-2.31	0.0	-26.12	58.86	0.23	-0.07	-0.25	274.15
		274.15	-0.25	-1.97e-05	0.0	41.5	-25.47	56.55	0.23	-0.07	-0.16	298.08
102	158	298.08	-0.21	-4.00e-04	-2.31	0.0	-26.12	58.86	0.28	-0.08	-0.33	274.15
		274.15	-0.33	-2.43e-05	0.0	41.5	-25.47	56.55	0.28	-0.08	-0.21	298.08
103	4	598.92	0.45	1.23e-04	-1.72	0.0	-35.62	-74.71	-0.45	0.13	0.45	598.92
		580.56	0.34	2.25e-05	0.0	24.3	-36.11	-76.43	-0.45	0.13	0.34	580.56
103	5	388.77	0.25	7.99e-05	-1.32	0.0	-23.09	-47.87	-0.23	0.07	0.25	388.77
		376.98	0.19	1.11e-05	0.0	24.3	-23.47	-49.19	-0.23	0.07	0.19	376.98
103	7	388.77	0.35	7.99e-05	-1.32	0.0	-23.09	-47.87	-0.36	0.10	0.35	388.77
		376.98	0.26	1.82e-05	0.0	24.3	-23.47	-49.19	-0.36	0.10	0.26	376.98
103	9	692.23	0.37	1.42e-04	-1.72	0.0	-41.38	-87.16	-0.34	0.11	0.37	692.23
		670.85	0.29	1.57e-05	0.0	24.3	-41.87	-88.88	-0.34	0.11	0.29	670.85
103	11	692.23	0.44	1.42e-04	-1.72	0.0	-41.38	-87.16	-0.43	0.13	0.44	692.23
		670.85	0.34	2.07e-05	0.0	24.3	-41.87	-88.88	-0.43	0.13	0.34	670.85
103	15	388.86	0.25	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.23	0.07	0.25	388.86
		377.07	0.19	1.14e-05	0.0	24.3	-23.40	-49.21	-0.23	0.07	0.19	377.07
103	17	388.86	0.31	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.32	0.09	0.31	388.86
		377.06	0.23	1.61e-05	0.0	24.3	-23.40	-49.21	-0.32	0.09	0.23	377.06
103	18	451.07	0.33	9.26e-05	-1.32	0.0	-26.86	-56.18	-0.33	0.09	0.33	451.07
		437.26	0.25	1.63e-05	0.0	24.3	-27.24	-57.50	-0.33	0.09	0.25	437.26
103	19	513.27	0.28	1.05e-04	-1.32	0.0	-30.70	-64.48	-0.25	0.08	0.28	513.27
		497.45	0.22	1.18e-05	0.0	24.3	-31.08	-65.80	-0.25	0.08	0.22	497.45
103	21	513.27	0.33	1.05e-04	-1.32	0.0	-30.70	-64.48	-0.31	0.09	0.33	513.27
		497.45	0.25	1.51e-05	0.0	24.3	-31.08	-65.80	-0.31	0.09	0.25	497.45
103	22	388.86	0.25	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.23	0.07	0.25	388.86
		377.07	0.19	1.14e-05	0.0	24.3	-23.40	-49.21	-0.23	0.07	0.19	377.07
103	23	388.86	0.29	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.29	0.08	0.29	388.86
		377.06	0.22	1.47e-05	0.0	24.3	-23.40	-49.21	-0.29	0.08	0.22	377.06
103	24	413.74	0.25	8.50e-05	-1.32	0.0	-24.56	-51.20	-0.24	0.07	0.25	413.74
		401.14	0.20	1.15e-05	0.0	24.3	-24.93	-52.53	-0.24	0.07	0.20	401.14
103	26	413.74	0.29	8.50e-05	-1.32	0.0	-24.56	-51.20	-0.29	0.08	0.29	413.74
		401.14	0.22	1.43e-05	0.0	24.3	-24.93	-52.53	-0.29	0.08	0.22	401.14
103	27	388.86	0.25	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.23	0.07	0.25	388.86
		377.07	0.19	1.14e-05	0.0	24.3	-23.40	-49.21	-0.23	0.07	0.19	377.07
103	28	388.86	0.29	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.28	0.08	0.29	388.86
		377.06	0.22	1.43e-05	0.0	24.3	-23.40	-49.21	-0.28	0.08	0.22	377.06
103	47	372.28	-137.75	7.49e-05	-1.32	0.0	-14.24	-44.28	20.92	-38.10	-142.59	372.28
		361.34	-142.59	-1.41e-03	0.0	24.3	-14.61	-45.60	20.92	-38.10	-137.75	361.34
103	50	405.44	143.16	8.49e-05	-1.32	0.0	-31.81	-51.49	-21.49	38.26	143.16	405.44
		392.79	138.19	1.44e-03	0.0	24.3	-32.18	-52.81	-21.49	38.26	138.19	392.79
103	78	398.57	-35.34	8.76e-05	-1.32	0.0	-48.65	-52.96	5.40	-13.90	-37.05	398.57
		385.56	-37.05	-5.93e-04	0.0	24.3	-49.03	-54.29	5.40	-13.90	-35.34	385.56
103	83	379.14	37.62	7.21e-05	-1.32	0.0	2.60	-42.81	-5.97	14.06	37.62	379.14
		368.57	35.77	6.22e-04	0.0	24.3	2.23	-44.13	-5.97	14.06	35.77	368.57
103	102	390.18	-71.66	7.93e-05	-1.32	0.0	-19.76	-47.60	10.77	-19.76	-74.15	390.18
		378.46	-74.15	-7.23e-04	0.0	24.3	-20.13	-48.92	10.77	-19.76	-71.66	378.46
103	103	387.53	74.72	8.04e-05	-1.32	0.0	-26.29	-48.17	-11.34	19.93	74.72	387.53
		375.67	72.09	7.52e-04	0.0	24.3	-26.66	-49.49	-11.34	19.93	72.09	375.67
103	117	383.97	-18.26	8.18e-05	-1.32	0.0	-35.03	-48.93	2.72	-7.25	-19.13	383.97
		371.92	-19.13	-3.04e-04	0.0	24.3	-35.40	-50.26	2.72	-7.25	-18.26	371.92
103	120	393.75	19.70	7.79e-05	-1.32	0.0	-11.02	-46.84	-3.29	7.41	19.70	393.75
		382.21	18.69	3.32e-04	0.0	24.3	-11.39	-48.16	-3.29	7.41	18.69	382.21
103	133	322.15	-37.70	6.78e-05	-1.32	0.0	-21.89	-38.32	6.37	-12.62	-39.32	322.15
		312.64	-39.32	-5.01e-04	0.0	24.3	-22.27	-39.64	6.37	-12.62	-37.70	312.64

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
103	140	455.57	39.89	9.19e-05	-1.32	0.0	-24.16	-57.45	-6.94	12.78	39.89	455.57
		441.49	38.13	5.29e-04	0.0	24.3	-24.53	-58.78	-6.94	12.78	38.13	441.49
103	157	388.86	0.25	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.23	0.07	0.25	388.86
		377.07	0.19	1.14e-05	0.0	24.3	-23.40	-49.21	-0.23	0.07	0.19	377.07
103	158	388.86	0.29	7.99e-05	-1.32	0.0	-23.02	-47.89	-0.28	0.08	0.29	388.86
		377.06	0.22	1.43e-05	0.0	24.3	-23.40	-49.21	-0.28	0.08	0.22	377.06
104	3	356.47	0.72	1.90e-03	-7.83	0.0	-47.48	-124.64	1.14	0.12	-0.51	356.47
		217.76	-0.51	9.58e-05	0.0	107.9	-49.69	-132.46	1.14	0.12	0.72	217.76
104	4	423.01	0.71	2.25e-03	-7.83	0.0	-56.64	-149.13	1.14	0.13	-0.52	423.01
		257.87	-0.52	9.74e-05	0.0	107.9	-58.85	-156.96	1.14	0.13	0.71	257.87
104	5	274.12	0.34	1.46e-03	-6.02	0.0	-36.64	-95.84	0.55	0.07	-0.25	274.12
		167.46	-0.25	4.88e-05	0.0	107.9	-38.34	-101.86	0.55	0.07	0.34	167.46
104	7	274.12	0.59	1.46e-03	-6.02	0.0	-36.64	-95.84	0.94	0.10	-0.43	274.12
		167.46	-0.43	7.83e-05	0.0	107.9	-38.34	-101.86	0.94	0.10	0.59	167.46
104	9	489.56	0.46	2.60e-03	-7.83	0.0	-65.80	-173.62	0.75	0.11	-0.35	489.56
		297.99	-0.35	6.96e-05	0.0	107.9	-68.02	-181.45	0.75	0.11	0.46	297.99
104	11	489.56	0.63	2.60e-03	-7.83	0.0	-65.80	-173.62	1.03	0.13	-0.47	489.56
		297.99	-0.47	9.02e-05	0.0	107.9	-68.02	-181.45	1.03	0.13	0.63	297.99
104	15	274.17	0.35	1.46e-03	-6.02	0.0	-36.57	-95.86	0.56	0.07	-0.25	274.17
		167.49	-0.25	5.01e-05	0.0	107.9	-38.28	-101.88	0.56	0.07	0.35	167.49
104	17	274.17	0.52	1.46e-03	-6.02	0.0	-36.57	-95.86	0.83	0.09	-0.37	274.17
		167.49	-0.37	6.97e-05	0.0	107.9	-38.28	-101.88	0.83	0.09	0.52	167.49
104	18	318.53	0.51	1.69e-03	-6.02	0.0	-42.68	-112.19	0.83	0.09	-0.38	318.53
		194.23	-0.38	7.08e-05	0.0	107.9	-44.38	-118.21	0.83	0.09	0.51	194.23
104	19	362.90	0.34	1.93e-03	-6.02	0.0	-48.79	-128.52	0.56	0.08	-0.26	362.90
		220.97	-0.26	5.22e-05	0.0	107.9	-50.49	-134.54	0.56	0.08	0.34	220.97
104	21	362.90	0.46	1.93e-03	-6.02	0.0	-48.79	-128.52	0.75	0.09	-0.35	362.90
		220.97	-0.35	6.60e-05	0.0	107.9	-50.49	-134.54	0.75	0.09	0.46	220.97
104	22	274.17	0.35	1.46e-03	-6.02	0.0	-36.57	-95.86	0.56	0.07	-0.25	274.17
		167.49	-0.25	5.01e-05	0.0	107.9	-38.28	-101.88	0.56	0.07	0.35	167.49
104	23	274.17	0.47	1.46e-03	-6.02	0.0	-36.57	-95.86	0.75	0.08	-0.34	274.17
		167.49	-0.34	6.38e-05	0.0	107.9	-38.28	-101.88	0.75	0.08	0.47	167.49
104	24	291.92	0.35	1.55e-03	-6.02	0.0	-39.02	-102.39	0.56	0.07	-0.26	291.92
		178.18	-0.26	5.05e-05	0.0	107.9	-40.72	-108.41	0.56	0.07	0.35	178.18
104	26	291.92	0.45	1.55e-03	-6.02	0.0	-39.02	-102.39	0.72	0.08	-0.33	291.92
		178.18	-0.33	6.23e-05	0.0	107.9	-40.72	-108.41	0.72	0.08	0.45	178.18
104	27	274.17	0.35	1.46e-03	-6.02	0.0	-36.57	-95.86	0.56	0.07	-0.25	274.17
		167.49	-0.25	5.01e-05	0.0	107.9	-38.28	-101.88	0.56	0.07	0.35	167.49
104	28	274.17	0.45	1.46e-03	-6.02	0.0	-36.57	-95.86	0.72	0.08	-0.33	274.17
		167.49	-0.33	6.19e-05	0.0	107.9	-38.28	-101.88	0.72	0.08	0.45	167.49
104	46	282.98	-50.60	1.52e-03	-6.02	0.0	-50.84	-99.57	38.94	-39.71	-95.40	282.98
		172.31	-95.40	-0.01	0.0	107.9	-52.54	-105.59	38.94	-39.71	-50.60	172.31
104	51	265.36	94.75	1.40e-03	-6.02	0.0	-22.31	-92.15	-37.50	39.87	94.75	265.36
		162.66	51.50	0.01	0.0	107.9	-24.01	-98.17	-37.50	39.87	51.50	162.66
104	78	273.88	-10.45	1.50e-03	-6.02	0.0	-82.58	-96.79	12.24	-13.90	-30.07	273.88
		166.21	-30.07	-3.68e-03	0.0	107.9	-84.29	-102.81	12.24	-13.90	-10.45	166.21
104	83	274.46	29.42	1.42e-03	-6.02	0.0	9.43	-94.93	-10.80	14.06	29.42	274.46
		168.76	11.35	3.80e-03	0.0	107.9	7.73	-100.95	-10.80	14.06	11.35	168.76
104	101	272.38	-26.08	1.46e-03	-6.02	0.0	-42.83	-95.31	20.61	-20.67	-49.75	272.38
		166.29	-49.75	-5.82e-03	0.0	107.9	-44.53	-101.33	20.61	-20.67	-26.08	166.29
104	104	275.96	49.10	1.46e-03	-6.02	0.0	-30.32	-96.41	-19.17	20.83	49.10	275.96
		168.68	26.98	5.94e-03	0.0	107.9	-32.02	-102.43	-19.17	20.83	26.98	168.68
104	117	267.66	-5.17	1.45e-03	-6.02	0.0	-59.30	-93.86	6.70	-7.25	-15.79	267.66
		163.13	-15.79	-1.88e-03	0.0	107.9	-61.01	-99.89	6.70	-7.25	-5.17	163.13
104	120	280.68	15.14	1.47e-03	-6.02	0.0	-13.84	-97.85	-5.26	7.41	15.14	280.68
		171.85	6.07	2.00e-03	0.0	107.9	-15.55	-103.88	-5.26	7.41	6.07	171.85
104	133	229.40	-13.09	1.23e-03	-6.02	0.0	-42.82	-78.75	11.11	-12.62	-26.43	229.40
		141.11	-26.43	-3.38e-03	0.0	107.9	-44.52	-84.77	11.11	-12.62	-13.09	141.11
104	140	318.94	25.78	1.70e-03	-6.02	0.0	-30.33	-112.97	-9.67	12.78	25.78	318.94
		193.86	13.99	3.50e-03	0.0	107.9	-32.03	-118.99	-9.67	12.78	13.99	193.86
104	157	274.17	0.35	1.46e-03	-6.02	0.0	-36.57	-95.86	0.56	0.07	-0.25	274.17
		167.49	-0.25	5.01e-05	0.0	107.9	-38.28	-101.88	0.56	0.07	0.35	167.49
104	158	274.17	0.45	1.46e-03	-6.02	0.0	-36.57	-95.86	0.72	0.08	-0.33	274.17
		167.49	-0.33	6.19e-05	0.0	107.9	-38.28	-101.88	0.72	0.08	0.45	167.49
105	3	72.51	1.94	1.05e-03	-2.10	0.0	-67.41	-195.20	-5.25	0.12	1.94	72.51
		0.0	0.0	4.33e-05	0.0	36.9	-68.00	-197.30	-5.25	0.12	0.0	0.0
105	5	55.76	0.92	8.11e-04	-1.62	0.0	-51.97	-150.12	-2.50	0.07	0.92	55.76
		0.0	0.0	2.17e-05	0.0	36.9	-52.43	-151.73	-2.50	0.07	0.0	0.0
105	9	100.23	1.26	1.44e-03	-2.10	0.0	-93.09	-270.24	-3.42	0.11	1.26	100.23
		0.0	0.0	3.06e-05	0.0	36.9	-93.69	-272.34	-3.42	0.11	0.0	0.0
105	11	100.23	1.73	1.44e-03	-2.10	0.0	-93.09	-270.24	-4.69	0.13	1.73	100.23
		0.0	0.0	4.02e-05	0.0	36.9	-93.69	-272.34	-4.69	0.13	0.0	0.0

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
105	12	83.49	0.92	1.20e-03	-1.62	0.0	-77.66	-225.16	-2.49	0.09	0.92	83.49
		0.0	0.0	2.27e-05	0.0	36.9	-78.11	-226.77	-2.49	0.09	0.0	0.0
105	15	55.77	0.95	8.11e-04	-1.62	0.0	-51.91	-150.14	-2.58	0.07	0.95	55.77
		0.0	0.0	2.23e-05	0.0	36.9	-52.36	-151.75	-2.58	0.07	0.0	0.0
105	17	55.77	1.40	8.11e-04	-1.62	0.0	-51.91	-150.14	-3.80	0.09	1.40	55.77
		0.0	0.0	3.15e-05	0.0	36.9	-52.36	-151.75	-3.80	0.09	0.0	0.0
105	19	74.25	0.95	1.07e-03	-1.62	0.0	-69.03	-200.16	-2.57	0.08	0.95	74.25
		0.0	0.0	2.30e-05	0.0	36.9	-69.49	-201.78	-2.57	0.08	0.0	0.0
105	21	74.25	1.26	1.07e-03	-1.62	0.0	-69.03	-200.16	-3.42	0.09	1.26	74.25
		0.0	0.0	2.94e-05	0.0	36.9	-69.49	-201.78	-3.42	0.09	0.0	0.0
105	22	55.77	0.95	8.11e-04	-1.62	0.0	-51.91	-150.14	-2.58	0.07	0.95	55.77
		0.0	0.0	2.23e-05	0.0	36.9	-52.36	-151.75	-2.58	0.07	0.0	0.0
105	23	55.77	1.27	8.11e-04	-1.62	0.0	-51.91	-150.14	-3.43	0.08	1.27	55.77
		0.0	0.0	2.87e-05	0.0	36.9	-52.36	-151.75	-3.43	0.08	0.0	0.0
105	24	59.46	0.95	8.63e-04	-1.62	0.0	-55.33	-160.14	-2.58	0.07	0.95	59.46
		0.0	0.0	2.24e-05	0.0	36.9	-55.79	-161.76	-2.58	0.07	0.0	0.0
105	26	59.46	1.22	8.63e-04	-1.62	0.0	-55.33	-160.14	-3.31	0.08	1.22	59.46
		0.0	0.0	2.79e-05	0.0	36.9	-55.79	-161.76	-3.31	0.08	0.0	0.0
105	27	55.77	0.95	8.11e-04	-1.62	0.0	-51.91	-150.14	-2.58	0.07	0.95	55.77
		0.0	0.0	2.23e-05	0.0	36.9	-52.36	-151.75	-2.58	0.07	0.0	0.0
105	28	55.77	1.22	8.11e-04	-1.62	0.0	-51.91	-150.14	-3.31	0.08	1.22	55.77
		0.0	0.0	2.78e-05	0.0	36.9	-52.36	-151.75	-3.31	0.08	0.0	0.0
105	47	54.79	0.0	7.87e-04	-1.62	0.0	-32.13	-147.49	31.80	-38.10	-11.75	54.79
		0.0	-11.75	-3.25e-03	0.0	36.9	-32.59	-149.11	31.80	-38.10	0.0	0.0
105	50	56.74	14.19	8.35e-04	-1.62	0.0	-71.68	-152.78	-38.42	38.26	14.19	56.74
		0.0	0.0	3.30e-03	0.0	36.9	-72.13	-154.40	-38.42	38.26	0.0	0.0
105	64	61.10	0.0	8.65e-04	-1.62	0.0	6.10	-164.56	13.04	-9.15	-4.82	61.10
		0.0	-4.82	-6.44e-04	0.0	36.9	5.64	-166.18	13.04	-9.15	0.0	0.0
105	78	54.10	0.0	8.16e-04	-1.62	0.0	-119.11	-145.62	0.10	-13.90	-0.04	54.10
		0.0	-0.04	-9.34e-04	0.0	36.9	-119.56	-147.24	0.10	-13.90	0.0	0.0
105	83	57.43	2.48	8.05e-04	-1.62	0.0	15.30	-154.65	-6.72	14.06	2.48	57.43
		0.0	0.0	9.89e-04	0.0	36.9	14.84	-156.26	-6.72	14.06	0.0	0.0
105	102	56.28	0.0	8.14e-04	-1.62	0.0	-42.73	-151.52	14.81	-19.76	-5.47	56.28
		0.0	-5.47	-1.62e-03	0.0	36.9	-43.19	-153.14	14.81	-19.76	0.0	0.0
105	103	55.25	7.92	8.07e-04	-1.62	0.0	-61.08	-148.75	-21.43	19.93	7.92	55.25
		0.0	0.0	1.68e-03	0.0	36.9	-61.54	-150.36	-21.43	19.93	0.0	0.0
105	110	57.49	0.0	8.23e-04	-1.62	0.0	-21.12	-154.80	5.46	-4.68	-2.02	57.49
		0.0	-2.02	-2.98e-04	0.0	36.9	-21.57	-156.42	5.46	-4.68	0.0	0.0
105	117	53.88	0.57	7.98e-04	-1.62	0.0	-85.69	-145.03	-1.54	-7.25	0.57	53.88
		0.0	0.0	-4.55e-04	0.0	36.9	-86.14	-146.65	-1.54	-7.25	0.0	0.0
105	120	57.65	1.88	8.24e-04	-1.62	0.0	-18.12	-155.24	-5.08	7.41	1.88	57.65
		0.0	0.0	5.10e-04	0.0	36.9	-18.58	-156.85	-5.08	7.41	0.0	0.0
105	140	63.45	4.26	9.21e-04	-1.62	0.0	-38.69	-170.92	-11.54	12.78	4.26	63.45
		0.0	0.0	9.00e-04	0.0	36.9	-39.15	-172.54	-11.54	12.78	0.0	0.0
105	157	55.77	0.95	8.11e-04	-1.62	0.0	-51.91	-150.14	-2.58	0.07	0.95	55.77
		0.0	0.0	2.23e-05	0.0	36.9	-52.36	-151.75	-2.58	0.07	0.0	0.0
105	158	55.77	1.22	8.11e-04	-1.62	0.0	-51.91	-150.14	-3.31	0.08	1.22	55.77
		0.0	0.0	2.78e-05	0.0	36.9	-52.36	-151.75	-3.31	0.08	0.0	0.0
106	3	72.49	2.07	-1.04e-03	-2.10	0.0	-68.18	197.25	5.59	-0.14	0.0	0.0
		0.0	0.0	-3.87e-05	0.0	36.9	-67.59	195.14	5.59	-0.14	2.07	72.49
106	5	55.75	0.97	-8.01e-04	-1.62	0.0	-52.57	151.70	2.63	-0.08	0.0	0.0
		0.0	0.0	-1.95e-05	0.0	36.9	-52.11	150.08	2.63	-0.08	0.97	55.75
106	7	55.75	1.71	-8.01e-04	-1.62	0.0	-52.57	151.69	4.64	-0.12	0.0	0.0
		0.0	0.0	-3.14e-05	0.0	36.9	-52.11	150.08	4.64	-0.12	1.71	55.75
106	9	100.21	1.30	-1.43e-03	-2.10	0.0	-93.92	272.27	3.51	-0.12	0.0	0.0
		0.0	0.0	-2.76e-05	0.0	36.9	-93.33	270.17	3.51	-0.12	1.30	100.21
106	11	100.21	1.82	-1.43e-03	-2.10	0.0	-93.92	272.27	4.92	-0.15	0.0	0.0
		0.0	0.0	-3.59e-05	0.0	36.9	-93.33	270.17	4.92	-0.15	1.82	100.21
106	15	55.75	1.00	-8.01e-04	-1.62	0.0	-52.50	151.71	2.70	-0.08	0.0	0.0
		0.0	0.0	-2.01e-05	0.0	36.9	-52.04	150.10	2.70	-0.08	1.00	55.75
106	17	55.75	1.49	-8.01e-04	-1.62	0.0	-52.50	151.71	4.04	-0.10	0.0	0.0
		0.0	0.0	-2.81e-05	0.0	36.9	-52.04	150.10	4.04	-0.10	1.49	55.75
106	19	74.23	0.98	-1.06e-03	-1.62	0.0	-69.66	201.73	2.65	-0.09	0.0	0.0
		0.0	0.0	-2.07e-05	0.0	36.9	-69.20	200.11	2.65	-0.09	0.98	74.23
106	21	74.23	1.33	-1.06e-03	-1.62	0.0	-69.66	201.73	3.59	-0.11	0.0	0.0
		0.0	0.0	-2.62e-05	0.0	36.9	-69.20	200.11	3.59	-0.11	1.33	74.23
106	22	55.75	1.00	-8.01e-04	-1.62	0.0	-52.50	151.71	2.70	-0.08	0.0	0.0
		0.0	0.0	-2.01e-05	0.0	36.9	-52.04	150.10	2.70	-0.08	1.00	55.75
106	23	55.75	1.34	-8.01e-04	-1.62	0.0	-52.50	151.71	3.64	-0.10	0.0	0.0
		0.0	0.0	-2.57e-05	0.0	36.9	-52.04	150.10	3.64	-0.10	1.34	55.75
106	24	59.45	0.99	-8.52e-04	-1.62	0.0	-55.93	161.72	2.69	-0.08	0.0	0.0
		0.0	0.0	-2.02e-05	0.0	36.9	-55.47	160.10	2.69	-0.08	0.99	59.45

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
106	26	59.45	1.29	-8.52e-04	-1.62	0.0	-55.93	161.72	3.49	-0.10	0.0	0.0
		0.0	0.0	-2.50e-05	0.0	36.9	-55.48	160.10	3.49	-0.10	1.29	59.45
106	27	55.75	1.00	-8.01e-04	-1.62	0.0	-52.50	151.71	2.70	-0.08	0.0	0.0
		0.0	0.0	-2.01e-05	0.0	36.9	-52.04	150.10	2.70	-0.08	1.00	55.75
106	28	55.75	1.29	-8.01e-04	-1.62	0.0	-52.50	151.71	3.50	-0.09	0.0	0.0
		0.0	0.0	-2.49e-05	0.0	36.9	-52.04	150.10	3.50	-0.09	1.29	55.75
106	29	54.68	0.0	-7.77e-04	-1.62	0.0	-34.15	148.79	-31.64	38.04	0.0	0.0
		0.0	-11.69	3.24e-03	0.0	36.9	-33.69	147.18	-31.64	38.04	-11.69	54.68
106	36	56.83	14.28	-8.25e-04	-1.62	0.0	-70.85	154.63	38.64	-38.23	0.0	0.0
		0.0	0.0	-3.29e-03	0.0	36.9	-70.39	153.02	38.64	-38.23	14.28	56.83
106	79	49.31	0.0	-7.40e-04	-1.62	0.0	-130.06	134.28	-0.97	13.60	0.0	0.0
		0.0	-0.36	1.09e-03	0.0	36.9	-129.60	132.66	-0.97	13.60	-0.36	49.31
106	88	53.30	0.09	-8.01e-04	-1.62	0.0	-133.91	145.07	0.26	13.88	0.0	0.0
		0.0	0.0	9.37e-04	0.0	36.9	-133.46	143.45	0.26	13.88	0.09	53.30
106	89	58.21	2.49	-8.01e-04	-1.62	0.0	28.91	158.36	6.75	-14.07	0.0	0.0
		0.0	0.0	-9.86e-04	0.0	36.9	29.37	156.74	6.75	-14.07	2.49	58.21
106	93	56.24	0.0	-8.05e-04	-1.62	0.0	-43.75	153.03	-14.59	19.73	0.0	0.0
		0.0	-5.39	1.62e-03	0.0	36.9	-43.29	151.41	-14.59	19.73	-5.39	56.24
106	96	55.27	7.98	-7.98e-04	-1.62	0.0	-61.25	150.40	21.59	-19.92	0.0	0.0
		0.0	0.0	-1.67e-03	0.0	36.9	-60.80	148.78	21.59	-19.92	7.98	55.27
106	109	57.44	0.0	-8.13e-04	-1.62	0.0	-22.37	156.27	-5.54	4.48	0.0	0.0
		0.0	-2.05	3.85e-04	0.0	36.9	-21.91	154.65	-5.54	4.48	-2.05	57.44
106	122	53.45	0.66	-7.85e-04	-1.62	0.0	-93.59	145.49	1.77	7.24	0.0	0.0
		0.0	0.0	4.58e-04	0.0	36.9	-93.14	143.87	1.77	7.24	0.66	53.45
106	123	58.05	1.93	-8.17e-04	-1.62	0.0	-11.41	157.94	5.23	-7.43	0.0	0.0
		0.0	0.0	-5.07e-04	0.0	36.9	-10.95	156.32	5.23	-7.43	1.93	58.05
106	154	63.74	4.43	-9.12e-04	-1.62	0.0	-34.95	173.32	12.00	-12.78	0.0	0.0
		0.0	0.0	-8.94e-04	0.0	36.9	-34.50	171.70	12.00	-12.78	4.43	63.74
106	157	55.75	1.00	-8.01e-04	-1.62	0.0	-52.50	151.71	2.70	-0.08	0.0	0.0
		0.0	0.0	-2.01e-05	0.0	36.9	-52.04	150.10	2.70	-0.08	1.00	55.75
106	158	55.75	1.29	-8.01e-04	-1.62	0.0	-52.50	151.71	3.50	-0.09	0.0	0.0
		0.0	0.0	-2.49e-05	0.0	36.9	-52.04	150.10	3.50	-0.09	1.29	55.75
107	4	595.07	0.53	2.86e-04	-8.85	0.0	-13.66	3.86	0.0	0.15	0.53	594.02
		593.31	0.53	1.14e-04	0.0	125.1	-16.16	-4.99	0.0	0.15	0.53	593.31
107	5	386.87	0.29	1.86e-04	-6.81	0.0	-9.00	2.54	0.0	0.08	0.29	386.28
		385.20	0.29	5.60e-05	0.0	125.1	-10.92	-4.26	0.0	0.08	0.29	385.20
107	7	386.87	0.41	1.86e-04	-6.81	0.0	-9.01	2.54	0.0	0.12	0.41	386.28
		385.20	0.41	9.30e-05	0.0	125.1	-10.93	-4.26	0.0	0.12	0.41	385.20
107	9	687.03	0.43	3.30e-04	-8.85	0.0	-15.76	4.45	0.0	0.12	0.43	685.63
		685.63	0.43	7.83e-05	0.0	125.1	-18.26	-4.40	0.0	0.12	0.43	685.66
107	11	687.03	0.52	3.30e-04	-8.85	0.0	-15.76	4.45	0.0	0.15	0.52	685.63
		685.63	0.52	1.04e-04	0.0	125.1	-18.26	-4.40	0.0	0.15	0.52	685.66
107	15	386.98	0.29	1.86e-04	-6.81	0.0	-8.93	2.52	0.0	0.08	0.29	386.39
		385.29	0.29	5.75e-05	0.0	125.1	-10.86	-4.28	0.0	0.08	0.29	385.29
107	17	386.98	0.37	1.86e-04	-6.81	0.0	-8.94	2.52	0.0	0.10	0.37	386.39
		385.29	0.37	8.22e-05	0.0	125.1	-10.86	-4.28	0.0	0.10	0.37	385.29
107	18	448.24	0.39	2.15e-04	-6.81	0.0	-10.34	2.92	0.0	0.11	0.39	447.46
		446.85	0.39	8.29e-05	0.0	125.1	-12.26	-3.89	0.0	0.11	0.39	446.85
107	19	509.54	0.33	2.45e-04	-6.81	0.0	-11.74	3.32	0.0	0.09	0.33	508.53
		508.42	0.33	5.89e-05	0.0	125.1	-13.67	-3.49	0.0	0.09	0.33	508.42
107	21	509.54	0.39	2.45e-04	-6.81	0.0	-11.74	3.32	0.0	0.11	0.39	508.53
		508.42	0.39	7.62e-05	0.0	125.1	-13.67	-3.49	0.0	0.11	0.39	508.42
107	22	386.98	0.29	1.86e-04	-6.81	0.0	-8.93	2.52	0.0	0.08	0.29	386.39
		385.29	0.29	5.75e-05	0.0	125.1	-10.86	-4.28	0.0	0.08	0.29	385.29
107	23	386.98	0.34	1.86e-04	-6.81	0.0	-8.94	2.52	0.0	0.10	0.34	386.39
		385.29	0.34	7.48e-05	0.0	125.1	-10.86	-4.28	0.0	0.10	0.34	385.29
107	24	411.48	0.29	1.98e-04	-6.81	0.0	-9.50	2.68	0.0	0.08	0.29	410.82
		409.92	0.29	5.78e-05	0.0	125.1	-11.42	-4.12	0.0	0.08	0.29	409.92
107	26	411.48	0.34	1.98e-04	-6.81	0.0	-9.50	2.68	0.0	0.10	0.34	410.82
		409.92	0.34	7.26e-05	0.0	125.1	-11.42	-4.12	0.0	0.10	0.34	409.92
107	27	386.98	0.29	1.86e-04	-6.81	0.0	-8.93	2.52	0.0	0.08	0.29	386.39
		385.29	0.29	5.75e-05	0.0	125.1	-10.86	-4.28	0.0	0.08	0.29	385.29
107	28	386.98	0.34	1.86e-04	-6.81	0.0	-8.94	2.52	0.0	0.09	0.34	386.39
		385.29	0.34	7.23e-05	0.0	125.1	-10.86	-4.28	0.0	0.09	0.34	385.29
107	47	368.74	-139.77	1.71e-04	-6.81	0.0	-5.16	5.50	-3.62	-38.04	-139.77	366.25
		366.25	-142.37	-4.95e-03	0.0	125.1	-7.08	-1.30	-3.62	-38.04	-142.37	368.51
107	50	406.53	143.05	2.01e-04	-6.81	0.0	-12.71	-0.46	3.62	38.23	140.45	406.53
		402.07	140.45	5.09e-03	0.0	125.1	-14.63	-7.26	3.62	38.23	143.05	402.07
107	102	387.46	-72.60	1.83e-04	-6.81	0.0	-8.45	3.61	-1.96	-19.73	-72.60	386.29
		386.29	-74.01	-2.52e-03	0.0	125.1	-10.38	-3.20	-1.96	-19.73	-74.01	386.50
107	103	386.68	74.68	1.89e-04	-6.81	0.0	-9.42	1.44	1.96	19.92	73.27	386.49
		384.08	73.27	2.66e-03	0.0	125.1	-11.34	-5.37	1.96	19.92	74.68	384.08

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
107	117	386.36	-19.01	2.00e-04	-6.81	0.0	-11.23	-2.20	1.87	-7.24	-21.15	386.36
		379.34	-21.15	-1.24e-03	0.0	125.1	-13.15	-9.01	1.87	-7.24	-19.01	379.34
107	120	391.24	21.82	1.72e-04	-6.81	0.0	-6.64	7.25	-1.87	7.43	21.82	386.42
		386.42	19.69	1.39e-03	0.0	125.1	-8.56	0.44	-1.87	7.43	19.69	391.24
107	133	320.25	-39.21	1.63e-04	-6.81	0.0	-0.71	2.95	2.21	-12.59	-41.62	319.81
		318.29	-41.62	-1.92e-03	0.0	125.1	-2.64	-3.86	2.21	-12.59	-39.21	318.29
107	134	452.86	-38.71	2.25e-04	-6.81	0.0	-19.84	-3.35	2.14	-12.43	-41.06	452.86
		445.30	-41.06	-1.91e-03	0.0	125.1	-21.76	-10.16	2.14	-12.43	-38.71	445.30
107	139	325.28	41.73	1.47e-04	-6.81	0.0	1.97	8.40	-2.14	12.62	41.73	319.92
		319.92	39.39	2.06e-03	0.0	125.1	0.05	1.59	-2.14	12.62	39.39	325.28
107	140	453.72	42.29	2.09e-04	-6.81	0.0	-17.16	2.10	-2.21	12.78	42.29	452.97
		452.29	39.88	2.07e-03	0.0	125.1	-19.08	-4.70	-2.21	12.78	39.88	452.29
107	157	386.98	0.29	1.86e-04	-6.81	0.0	-8.93	2.52	0.0	0.08	0.29	386.39
		385.29	0.29	5.75e-05	0.0	125.1	-10.86	-4.28	0.0	0.08	0.29	385.29
107	158	386.98	0.34	1.86e-04	-6.81	0.0	-8.94	2.52	0.0	0.09	0.34	386.39
		385.29	0.34	7.23e-05	0.0	125.1	-10.86	-4.28	0.0	0.09	0.34	385.29
108	4	593.82	0.53	-1.22e-04	-1.72	0.0	-36.32	76.37	0.80	-0.15	0.33	575.48
		575.48	0.33	-2.39e-05	0.0	24.3	-35.83	74.65	0.80	-0.15	0.53	593.82
108	5	385.53	0.29	-7.91e-05	-1.32	0.0	-23.60	49.15	0.39	-0.08	0.19	373.75
		373.75	0.19	-1.18e-05	0.0	24.3	-23.23	47.83	0.39	-0.08	0.29	385.53
108	7	385.53	0.41	-7.91e-05	-1.32	0.0	-23.61	49.15	0.66	-0.12	0.25	373.75
		373.75	0.25	-1.94e-05	0.0	24.3	-23.23	47.83	0.66	-0.12	0.41	385.53
108	9	686.26	0.43	-1.41e-04	-1.72	0.0	-42.10	88.81	0.55	-0.12	0.30	664.89
		664.89	0.30	-1.66e-05	0.0	24.3	-41.62	87.09	0.55	-0.12	0.43	686.26
108	11	686.26	0.52	-1.41e-04	-1.72	0.0	-42.10	88.81	0.74	-0.15	0.34	664.89
		664.89	0.34	-2.19e-05	0.0	24.3	-41.62	87.09	0.74	-0.15	0.52	686.26
108	15	385.62	0.29	-7.92e-05	-1.32	0.0	-23.53	49.17	0.39	-0.08	0.19	373.83
		373.83	0.19	-1.21e-05	0.0	24.3	-23.16	47.85	0.39	-0.08	0.29	385.62
108	17	385.62	0.37	-7.92e-05	-1.32	0.0	-23.54	49.17	0.57	-0.10	0.23	373.83
		373.83	0.23	-1.72e-05	0.0	24.3	-23.16	47.85	0.57	-0.10	0.37	385.62
108	18	447.24	0.39	-9.17e-05	-1.32	0.0	-27.40	57.46	0.58	-0.11	0.25	433.44
		433.44	0.25	-1.74e-05	0.0	24.3	-27.02	56.14	0.58	-0.11	0.39	447.24
108	19	508.86	0.33	-1.04e-04	-1.32	0.0	-31.25	65.75	0.42	-0.09	0.23	493.05
		493.05	0.23	-1.25e-05	0.0	24.3	-30.88	64.43	0.42	-0.09	0.33	508.86
108	21	508.86	0.39	-1.04e-04	-1.32	0.0	-31.25	65.75	0.54	-0.11	0.25	493.05
		493.05	0.25	-1.60e-05	0.0	24.3	-30.88	64.43	0.54	-0.11	0.39	508.86
108	22	385.62	0.29	-7.92e-05	-1.32	0.0	-23.53	49.17	0.39	-0.08	0.19	373.83
		373.83	0.19	-1.21e-05	0.0	24.3	-23.16	47.85	0.39	-0.08	0.29	385.62
108	23	385.62	0.34	-7.92e-05	-1.32	0.0	-23.54	49.17	0.52	-0.10	0.22	373.83
		373.83	0.22	-1.56e-05	0.0	24.3	-23.16	47.85	0.52	-0.10	0.34	385.62
108	24	410.27	0.29	-8.42e-05	-1.32	0.0	-25.08	52.48	0.40	-0.08	0.20	397.68
		397.68	0.20	-1.22e-05	0.0	24.3	-24.70	51.16	0.40	-0.08	0.29	410.27
108	26	410.26	0.34	-8.42e-05	-1.32	0.0	-25.08	52.48	0.50	-0.10	0.22	397.67
		397.67	0.22	-1.52e-05	0.0	24.3	-24.71	51.16	0.50	-0.10	0.34	410.26
108	27	385.62	0.29	-7.92e-05	-1.32	0.0	-23.53	49.17	0.39	-0.08	0.19	373.83
		373.83	0.19	-1.21e-05	0.0	24.3	-23.16	47.85	0.39	-0.08	0.29	385.62
108	28	385.62	0.34	-7.92e-05	-1.32	0.0	-23.54	49.17	0.50	-0.09	0.21	373.83
		373.83	0.21	-1.51e-05	0.0	24.3	-23.16	47.85	0.50	-0.09	0.34	385.62
108	29	368.81	-137.72	-7.42e-05	-1.32	0.0	-15.25	45.54	-20.09	38.04	-137.72	357.89
		357.89	-142.37	1.41e-03	0.0	24.3	-14.88	44.22	-20.09	38.04	-142.37	368.81
108	36	402.42	143.05	-8.41e-05	-1.32	0.0	-31.82	52.80	21.09	-38.23	138.15	389.78
		389.78	138.15	-1.44e-03	0.0	24.3	-31.44	51.48	21.09	-38.23	143.05	402.42
108	88	393.22	-35.30	-8.75e-05	-1.32	0.0	-54.24	54.66	-5.06	13.88	-35.30	380.11
		380.11	-36.88	5.91e-04	0.0	24.3	-53.87	53.34	-5.06	13.88	-36.88	393.22
108	89	378.01	37.55	-7.09e-05	-1.32	0.0	7.17	43.68	6.06	-14.07	35.73	367.55
		367.55	35.73	-6.22e-04	0.0	24.3	7.54	42.36	6.06	-14.07	37.55	378.01
108	93	386.83	-71.64	-7.86e-05	-1.32	0.0	-20.42	48.87	-10.22	19.73	-71.64	375.11
		375.11	-74.01	7.21e-04	0.0	24.3	-20.05	47.55	-10.22	19.73	-74.01	386.83
108	96	384.40	74.68	-7.97e-05	-1.32	0.0	-26.65	49.46	11.22	-19.92	72.07	372.55
		372.55	72.07	-7.52e-04	0.0	24.3	-26.28	48.14	11.22	-19.92	74.68	384.40
108	122	379.69	-18.24	-8.14e-05	-1.32	0.0	-38.15	50.41	-2.44	7.24	-18.24	367.60
		367.60	-19.01	3.03e-04	0.0	24.3	-37.77	49.09	-2.44	7.24	-19.01	379.69
108	123	391.55	19.69	-7.69e-05	-1.32	0.0	-8.92	47.92	3.44	-7.43	18.67	380.07
		380.07	18.67	-3.33e-04	0.0	24.3	-8.55	46.60	3.44	-7.43	19.69	391.55
108	151	318.54	-37.69	-6.73e-05	-1.32	0.0	-23.93	39.63	-6.03	12.59	-37.69	309.03
		309.03	-39.21	4.99e-04	0.0	24.3	-23.55	38.30	-6.03	12.59	-39.21	318.54
108	154	452.69	39.88	-9.10e-05	-1.32	0.0	-23.14	58.71	7.03	-12.78	38.12	438.63
		438.63	38.12	-5.29e-04	0.0	24.3	-22.77	57.39	7.03	-12.78	39.88	452.69
108	157	385.62	0.29	-7.92e-05	-1.32	0.0	-23.53	49.17	0.39	-0.08	0.19	373.83
		373.83	0.19	-1.21e-05	0.0	24.3	-23.16	47.85	0.39	-0.08	0.29	385.62
108	158	385.62	0.34	-7.92e-05	-1.32	0.0	-23.54	49.17	0.50	-0.09	0.21	373.83
		373.83	0.21	-1.51e-05	0.0	24.3	-23.16	47.85	0.50	-0.09	0.34	385.62

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
109	4	575.48	0.33	1.38e-03	-9.54	0.0	-36.32	-76.37	-0.80	0.15	0.33	575.48
		454.27	-0.86	1.47e-04	0.0	149.4	-39.01	-85.91	-0.80	0.15	-0.86	454.27
109	5	373.75	0.19	8.99e-04	-7.34	0.0	-23.60	-49.15	-0.39	0.08	0.19	373.75
		294.85	-0.40	7.33e-05	0.0	149.4	-25.68	-56.49	-0.39	0.08	-0.40	294.85
109	9	664.89	0.30	1.60e-03	-9.54	0.0	-42.10	-88.81	-0.55	0.12	0.30	664.89
		525.11	-0.53	1.04e-04	0.0	149.4	-44.80	-98.35	-0.55	0.12	-0.53	525.11
109	11	664.89	0.34	1.60e-03	-9.54	0.0	-42.10	-88.81	-0.74	0.15	0.34	664.89
		525.11	-0.76	1.36e-04	0.0	149.4	-44.80	-98.35	-0.74	0.15	-0.76	525.11
109	15	373.83	0.19	9.00e-04	-7.34	0.0	-23.53	-49.17	-0.39	0.08	0.19	373.83
		294.91	-0.40	7.50e-05	0.0	149.4	-25.61	-56.51	-0.39	0.08	-0.40	294.91
109	18	433.44	0.25	1.04e-03	-7.34	0.0	-27.40	-57.46	-0.58	0.11	0.25	433.44
		342.13	-0.62	1.07e-04	0.0	149.4	-29.47	-64.80	-0.58	0.11	-0.62	342.13
109	19	493.05	0.23	1.19e-03	-7.34	0.0	-31.25	-65.75	-0.42	0.09	0.23	493.05
		389.35	-0.40	7.81e-05	0.0	149.4	-33.32	-73.09	-0.42	0.09	-0.40	389.35
109	21	493.05	0.25	1.19e-03	-7.34	0.0	-31.25	-65.75	-0.54	0.11	0.25	493.05
		389.35	-0.56	9.93e-05	0.0	149.4	-33.33	-73.09	-0.54	0.11	-0.56	389.35
109	22	373.83	0.19	9.00e-04	-7.34	0.0	-23.53	-49.17	-0.39	0.08	0.19	373.83
		294.91	-0.40	7.50e-05	0.0	149.4	-25.61	-56.51	-0.39	0.08	-0.40	294.91
109	23	373.83	0.22	9.00e-04	-7.34	0.0	-23.54	-49.17	-0.52	0.10	0.22	373.83
		294.91	-0.55	9.63e-05	0.0	149.4	-25.61	-56.51	-0.52	0.10	-0.55	294.91
109	24	397.68	0.20	9.57e-04	-7.34	0.0	-25.08	-52.48	-0.40	0.08	0.20	397.68
		313.80	-0.40	7.57e-05	0.0	149.4	-27.15	-59.82	-0.40	0.08	-0.40	313.80
109	26	397.67	0.22	9.57e-04	-7.34	0.0	-25.08	-52.48	-0.50	0.10	0.22	397.67
		313.80	-0.53	9.38e-05	0.0	149.4	-27.15	-59.82	-0.50	0.10	-0.53	313.80
109	27	373.83	0.19	9.00e-04	-7.34	0.0	-23.53	-49.17	-0.39	0.08	0.19	373.83
		294.91	-0.40	7.50e-05	0.0	149.4	-25.61	-56.51	-0.39	0.08	-0.40	294.91
109	28	373.83	0.21	9.00e-04	-7.34	0.0	-23.54	-49.17	-0.50	0.09	0.21	373.83
		294.91	-0.53	9.32e-05	0.0	149.4	-25.61	-56.51	-0.50	0.09	-0.53	294.91
109	47	357.89	-102.37	8.53e-04	-7.34	0.0	-14.84	-45.47	22.11	-38.04	-137.72	357.89
		284.35	-137.72	-0.01	0.0	149.4	-16.92	-52.81	22.11	-38.04	-102.37	284.35
109	50	389.78	138.15	9.47e-04	-7.34	0.0	-32.23	-52.87	-23.11	38.23	138.15	389.78
		305.46	101.30	0.01	0.0	149.4	-34.30	-60.21	-23.11	38.23	101.30	305.46
109	78	380.11	-33.09	9.55e-04	-7.34	0.0	-56.39	-54.24	5.62	-13.88	-35.30	380.11
		293.70	-35.30	-4.36e-03	0.0	149.4	-58.46	-61.58	5.62	-13.88	-33.09	293.70
109	83	367.55	35.73	8.44e-04	-7.34	0.0	9.31	-44.09	-6.61	14.07	35.73	367.55
		296.11	32.03	4.54e-03	0.0	149.4	7.24	-51.43	-6.61	14.07	32.03	296.11
109	102	375.11	-53.56	8.98e-04	-7.34	0.0	-20.19	-48.94	11.28	-19.73	-71.64	375.11
		296.50	-71.64	-5.95e-03	0.0	149.4	-22.26	-56.28	11.28	-19.73	-53.56	296.50
109	103	372.55	72.07	9.01e-04	-7.34	0.0	-26.89	-49.39	-12.28	19.92	72.07	372.55
		293.31	52.50	6.13e-03	0.0	149.4	-28.96	-56.73	-12.28	19.92	52.50	293.31
109	117	367.60	-17.47	9.06e-04	-7.34	0.0	-39.27	-50.10	2.74	-7.24	-18.24	367.60
		287.28	-18.24	-2.23e-03	0.0	149.4	-41.35	-57.44	2.74	-7.24	-17.47	287.28
109	120	380.07	18.67	8.94e-04	-7.34	0.0	-7.80	-48.24	-3.74	7.43	18.67	380.07
		302.53	16.41	2.42e-03	0.0	149.4	-9.87	-55.58	-3.74	7.43	16.41	302.53
109	133	309.03	-29.78	7.57e-04	-7.34	0.0	-24.69	-38.77	6.54	-12.59	-37.69	309.03
		245.28	-37.69	-3.84e-03	0.0	149.4	-26.77	-46.11	6.54	-12.59	-29.78	245.28
109	140	438.63	38.12	1.04e-03	-7.34	0.0	-22.38	-59.57	-7.54	12.78	38.12	438.63
		344.53	28.72	4.03e-03	0.0	149.4	-24.45	-66.91	-7.54	12.78	28.72	344.53
109	157	373.83	0.19	9.00e-04	-7.34	0.0	-23.53	-49.17	-0.39	0.08	0.19	373.83
		294.91	-0.40	7.50e-05	0.0	149.4	-25.61	-56.51	-0.39	0.08	-0.40	294.91
109	158	373.83	0.21	9.00e-04	-7.34	0.0	-23.54	-49.17	-0.50	0.09	0.21	373.83
		294.91	-0.53	9.32e-05	0.0	149.4	-25.61	-56.51	-0.50	0.09	-0.53	294.91
110	4	575.48	0.33	-1.38e-03	-9.54	0.0	-39.01	85.91	0.80	-0.15	-0.86	454.27
		454.27	-0.86	-1.47e-04	0.0	149.4	-36.32	76.37	0.80	-0.15	0.33	575.48
110	5	373.75	0.19	-8.99e-04	-7.34	0.0	-23.68	56.49	0.39	-0.08	-0.40	294.85
		294.85	-0.40	-7.33e-05	0.0	149.4	-23.60	49.15	0.39	-0.08	0.19	373.75
110	9	664.89	0.30	-1.60e-03	-9.54	0.0	-44.80	98.35	0.55	-0.12	-0.53	525.11
		525.11	-0.53	-1.04e-04	0.0	149.4	-42.10	88.81	0.55	-0.12	0.30	664.89
110	11	664.89	0.34	-1.60e-03	-9.54	0.0	-44.80	98.35	0.74	-0.15	-0.76	525.11
		525.11	-0.76	-1.36e-04	0.0	149.4	-42.10	88.81	0.74	-0.15	0.34	664.89
110	15	373.83	0.19	-9.00e-04	-7.34	0.0	-25.61	56.51	0.39	-0.08	-0.40	294.91
		294.91	-0.40	-7.50e-05	0.0	149.4	-23.53	49.17	0.39	-0.08	0.19	373.83
110	18	433.44	0.25	-1.04e-03	-7.34	0.0	-29.47	64.80	0.58	-0.11	-0.62	342.13
		342.13	-0.62	-1.07e-04	0.0	149.4	-27.40	57.46	0.58	-0.11	0.25	433.44
110	19	493.05	0.23	-1.19e-03	-7.34	0.0	-33.32	73.09	0.42	-0.09	-0.40	389.35
		389.35	-0.40	-7.81e-05	0.0	149.4	-31.25	65.75	0.42	-0.09	0.23	493.05
110	21	493.05	0.25	-1.19e-03	-7.34	0.0	-33.33	73.09	0.54	-0.11	-0.56	389.35
		389.35	-0.56	-9.93e-05	0.0	149.4	-31.25	65.75	0.54	-0.11	0.25	493.05
110	22	373.83	0.19	-9.00e-04	-7.34	0.0	-25.61	56.51	0.39	-0.08	-0.40	294.91
		294.91	-0.40	-7.50e-05	0.0	149.4	-23.53	49.17	0.39	-0.08	0.19	373.83
110	23	373.83	0.22	-9.00e-04	-7.34	0.0	-25.61	56.51	0.52	-0.10	-0.55	294.91
		294.91	-0.55	-9.63e-05	0.0	149.4	-23.54	49.17	0.52	-0.10	0.22	373.83

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
110	24	397.68	0.20	-9.57e-04	-7.34	0.0	-27.15	59.82	0.40	-0.08	-0.40	313.80
		313.80	-0.40	-7.57e-05	0.0	149.4	-25.08	52.48	0.40	-0.08	0.20	397.68
110	26	397.67	0.22	-9.57e-04	-7.34	0.0	-27.15	59.82	0.50	-0.10	-0.53	313.80
		313.80	-0.53	-9.38e-05	0.0	149.4	-25.08	52.48	0.50	-0.10	0.22	397.67
110	27	373.83	0.19	-9.00e-04	-7.34	0.0	-25.61	56.51	0.39	-0.08	-0.40	294.91
		294.91	-0.40	-7.50e-05	0.0	149.4	-23.53	49.17	0.39	-0.08	0.19	373.83
110	28	373.83	0.21	-9.00e-04	-7.34	0.0	-25.61	56.51	0.50	-0.09	-0.53	294.91
		294.91	-0.53	-9.32e-05	0.0	149.4	-23.54	49.17	0.50	-0.09	0.21	373.83
110	29	357.89	-102.37	-8.53e-04	-7.34	0.0	-16.92	52.81	-22.11	38.04	-102.37	284.35
		284.35	-137.72	0.01	0.0	149.4	-14.84	45.47	-22.11	38.04	-137.72	357.89
110	36	389.78	138.15	-9.47e-04	-7.34	0.0	-34.30	60.21	23.11	-38.23	101.30	305.46
		305.46	101.30	-0.01	0.0	149.4	-32.23	52.87	23.11	-38.23	138.15	389.78
110	88	380.11	-33.09	-9.55e-04	-7.34	0.0	-58.46	61.58	-5.62	13.88	-33.09	293.70
		293.70	-35.30	4.36e-03	0.0	149.4	-56.39	54.24	-5.62	13.88	-35.30	380.11
110	89	367.55	35.73	-8.44e-04	-7.34	0.0	7.24	51.43	6.61	-14.07	32.03	296.11
		296.11	32.03	-4.54e-03	0.0	149.4	9.31	44.09	6.61	-14.07	35.73	367.55
110	93	375.11	-53.56	-8.98e-04	-7.34	0.0	-22.26	56.28	-11.28	19.73	-53.56	296.50
		296.50	-71.64	5.95e-03	0.0	149.4	-20.19	48.94	-11.28	19.73	-71.64	375.11
110	96	372.55	72.07	-9.01e-04	-7.34	0.0	-28.96	56.73	12.28	-19.92	52.50	293.31
		293.31	52.50	-6.13e-03	0.0	149.4	-26.89	49.39	12.28	-19.92	72.07	372.55
110	122	367.60	-17.47	-9.06e-04	-7.34	0.0	-41.35	57.44	-2.74	7.24	-17.47	287.28
		287.28	-18.24	2.23e-03	0.0	149.4	-39.27	50.10	-2.74	7.24	-18.24	367.60
110	123	380.07	18.67	-8.94e-04	-7.34	0.0	-9.87	55.58	3.74	-7.43	16.41	302.53
		302.53	16.41	-2.42e-03	0.0	149.4	-7.80	48.24	3.74	-7.43	18.67	380.07
110	151	309.03	-29.78	-7.57e-04	-7.34	0.0	-26.77	46.11	-6.54	12.59	-29.78	245.28
		245.28	-37.69	3.84e-03	0.0	149.4	-24.70	38.77	-6.54	12.59	-37.69	309.03
110	154	438.63	38.12	-1.04e-03	-7.34	0.0	-24.45	66.90	7.54	-12.78	28.72	344.53
		344.53	28.72	-4.03e-03	0.0	149.4	-22.38	59.57	7.54	-12.78	38.12	438.63
110	157	373.83	0.19	-9.00e-04	-7.34	0.0	-25.61	56.51	0.39	-0.08	-0.40	294.91
		294.91	-0.40	-7.50e-05	0.0	149.4	-23.53	49.17	0.39	-0.08	0.19	373.83
110	158	373.83	0.21	-9.00e-04	-7.34	0.0	-25.61	56.51	0.50	-0.09	-0.53	294.91
		294.91	-0.53	-9.32e-05	0.0	149.4	-23.54	49.17	0.50	-0.09	0.21	373.83
111	4	454.27	-0.86	6.10e-04	-3.01	0.0	-39.01	-85.91	-0.80	0.15	-0.86	454.27
		418.02	-1.18	3.71e-05	0.0	41.5	-39.86	-88.92	-0.80	0.15	-1.18	418.02
111	5	294.85	-0.40	3.96e-04	-2.31	0.0	-25.68	-56.49	-0.39	0.08	-0.40	294.85
		270.94	-0.56	1.87e-05	0.0	41.5	-26.33	-58.80	-0.39	0.08	-0.56	270.94
111	11	525.11	-0.76	7.04e-04	-3.01	0.0	-44.80	-98.35	-0.74	0.15	-0.76	525.11
		483.70	-1.06	3.44e-05	0.0	41.5	-45.65	-101.36	-0.74	0.15	-1.06	483.70
111	15	294.91	-0.40	3.96e-04	-2.31	0.0	-25.61	-56.51	-0.39	0.08	-0.40	294.91
		270.99	-0.56	1.91e-05	0.0	41.5	-26.26	-58.82	-0.39	0.08	-0.56	270.99
111	18	342.13	-0.62	4.59e-04	-2.31	0.0	-29.47	-64.80	-0.58	0.11	-0.62	342.13
		314.78	-0.86	2.69e-05	0.0	41.5	-30.12	-67.11	-0.58	0.11	-0.86	314.78
111	21	389.35	-0.56	5.22e-04	-2.31	0.0	-33.33	-73.09	-0.54	0.11	-0.56	389.35
		358.56	-0.78	2.52e-05	0.0	41.5	-33.98	-75.40	-0.54	0.11	-0.78	358.56
111	22	294.91	-0.40	3.96e-04	-2.31	0.0	-25.61	-56.51	-0.39	0.08	-0.40	294.91
		270.99	-0.56	1.91e-05	0.0	41.5	-26.26	-58.82	-0.39	0.08	-0.56	270.99
111	23	294.91	-0.55	3.96e-04	-2.31	0.0	-25.61	-56.51	-0.52	0.10	-0.55	294.91
		270.99	-0.77	2.43e-05	0.0	41.5	-26.26	-58.82	-0.52	0.10	-0.77	270.99
111	26	313.80	-0.53	4.21e-04	-2.31	0.0	-27.15	-59.82	-0.50	0.10	-0.53	313.80
		288.51	-0.74	2.37e-05	0.0	41.5	-27.81	-62.14	-0.50	0.10	-0.74	288.51
111	27	294.91	-0.40	3.96e-04	-2.31	0.0	-25.61	-56.51	-0.39	0.08	-0.40	294.91
		270.99	-0.56	1.91e-05	0.0	41.5	-26.26	-58.82	-0.39	0.08	-0.56	270.99
111	28	294.91	-0.53	3.96e-04	-2.31	0.0	-25.61	-56.51	-0.50	0.09	-0.53	294.91
		270.99	-0.74	2.36e-05	0.0	41.5	-26.26	-58.82	-0.50	0.09	-0.74	270.99
111	46	305.12	-96.80	4.14e-04	-2.31	0.0	-35.24	-60.17	22.95	-39.66	-106.21	305.12
		279.71	-106.21	-4.09e-03	0.0	41.5	-35.89	-62.49	22.95	-39.66	-96.80	279.71
111	51	284.69	105.15	3.78e-04	-2.31	0.0	-15.98	-52.84	-23.95	39.85	105.15	284.69
		262.27	95.33	4.14e-03	0.0	41.5	-16.63	-55.16	-23.95	39.85	95.33	262.27
111	78	293.70	-30.58	4.12e-04	-2.31	0.0	-60.84	-61.07	6.12	-13.88	-30.58	293.70
		267.93	-33.09	-1.38e-03	0.0	41.5	-61.50	-63.38	6.12	-13.88	-33.09	267.93
111	83	296.11	32.03	3.81e-04	-2.31	0.0	9.63	-51.94	-7.12	14.07	32.03	296.11
		274.06	29.11	1.42e-03	0.0	41.5	8.97	-54.26	-7.12	14.07	29.11	274.06
111	101	293.13	-50.68	3.96e-04	-2.31	0.0	-29.48	-56.62	11.80	-20.63	-55.51	293.13
		269.16	-55.51	-2.11e-03	0.0	41.5	-30.14	-58.94	11.80	-20.63	-50.68	269.16
111	104	296.68	54.45	3.97e-04	-2.31	0.0	-21.73	-56.39	-12.80	20.82	54.45	296.68
		272.82	49.20	2.16e-03	0.0	41.5	-22.39	-58.71	-12.80	20.82	49.20	272.82
111	117	287.28	-16.25	3.94e-04	-2.31	0.0	-42.60	-57.08	3.00	-7.24	-17.47	287.28
		263.13	-17.47	-7.05e-04	0.0	41.5	-43.25	-59.40	3.00	-7.24	-16.25	263.13
111	120	302.53	16.41	3.98e-04	-2.31	0.0	-8.62	-55.93	-3.99	7.43	16.41	302.53
		278.86	14.77	7.52e-04	0.0	41.5	-9.27	-58.25	-3.99	7.43	14.77	278.86
111	133	245.28	-27.00	3.32e-04	-2.31	0.0	-27.63	-45.32	6.89	-12.59	-29.78	245.28
		225.88	-29.78	-1.25e-03	0.0	41.5	-28.28	-47.64	6.89	-12.59	-27.00	225.88

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
111	140	344.53	28.72	4.60e-04	-2.31	0.0	-23.59	-67.69	-7.88	12.78	28.72	344.53
		316.11	25.52	1.30e-03	0.0	41.5	-24.24	-70.00	-7.88	12.78	25.52	316.11
111	157	294.91	-0.40	3.96e-04	-2.31	0.0	-25.61	-56.51	-0.39	0.08	-0.40	294.91
		270.99	-0.56	1.91e-05	0.0	41.5	-26.26	-58.82	-0.39	0.08	-0.56	270.99
111	158	294.91	-0.53	3.96e-04	-2.31	0.0	-25.61	-56.51	-0.50	0.09	-0.53	294.91
		270.99	-0.74	2.36e-05	0.0	41.5	-26.26	-58.82	-0.50	0.09	-0.74	270.99
112	3	353.72	0.45	-1.88e-03	-7.83	0.0	-49.87	132.41	-1.51	-0.14	0.45	215.06
		215.06	-1.17	-8.64e-05	0.0	107.9	-47.66	124.58	-1.51	-0.14	-1.17	353.72
112	4	419.69	0.44	-2.23e-03	-7.83	0.0	-59.06	156.90	-1.50	-0.15	0.44	254.61
		254.61	-1.18	-8.80e-05	0.0	107.9	-56.85	149.07	-1.50	-0.15	-1.18	419.69
112	5	272.01	0.21	-1.45e-03	-6.02	0.0	-38.48	101.82	-0.71	-0.08	0.21	165.38
		165.38	-0.56	-4.46e-05	0.0	107.9	-36.78	95.80	-0.71	-0.08	-0.56	272.01
112	9	485.66	0.27	-2.58e-03	-7.83	0.0	-68.25	181.39	-0.95	-0.12	0.27	294.16
		294.16	-0.76	-6.41e-05	0.0	107.9	-66.04	173.56	-0.95	-0.12	-0.76	485.66
112	11	485.66	0.38	-2.58e-03	-7.83	0.0	-68.25	181.39	-1.34	-0.15	0.38	294.16
		294.16	-1.06	-8.19e-05	0.0	107.9	-66.04	173.56	-1.34	-0.15	-1.06	485.66
112	15	272.06	0.22	-1.45e-03	-6.02	0.0	-38.41	101.84	-0.72	-0.08	0.22	165.41
		165.41	-0.56	-4.58e-05	0.0	107.9	-36.71	95.82	-0.72	-0.08	-0.56	272.06
112	17	272.06	0.32	-1.45e-03	-6.02	0.0	-38.41	101.84	-1.09	-0.10	0.32	165.41
		165.41	-0.86	-6.28e-05	0.0	107.9	-36.71	95.82	-1.09	-0.10	-0.86	272.06
112	18	316.03	0.31	-1.68e-03	-6.02	0.0	-44.54	118.17	-1.09	-0.11	0.31	191.78
		191.78	-0.86	-6.39e-05	0.0	107.9	-42.84	112.14	-1.09	-0.11	-0.86	316.03
112	19	360.01	0.20	-1.91e-03	-6.02	0.0	-50.67	134.49	-0.72	-0.09	0.20	218.14
		218.14	-0.58	-4.80e-05	0.0	107.9	-48.97	128.47	-0.72	-0.09	-0.58	360.01
112	21	360.01	0.28	-1.91e-03	-6.02	0.0	-50.67	134.49	-0.98	-0.11	0.28	218.14
		218.14	-0.78	-5.99e-05	0.0	107.9	-48.97	128.47	-0.98	-0.11	-0.78	360.01
112	22	272.06	0.22	-1.45e-03	-6.02	0.0	-38.41	101.84	-0.72	-0.08	0.22	165.41
		165.41	-0.56	-4.58e-05	0.0	107.9	-36.71	95.82	-0.72	-0.08	-0.56	272.06
112	23	272.06	0.29	-1.45e-03	-6.02	0.0	-38.41	101.84	-0.98	-0.10	0.29	165.41
		165.41	-0.77	-5.77e-05	0.0	107.9	-36.71	95.82	-0.98	-0.10	-0.77	272.06
112	24	289.65	0.22	-1.54e-03	-6.02	0.0	-40.86	108.37	-0.72	-0.08	0.22	175.96
		175.96	-0.56	-4.63e-05	0.0	107.9	-39.16	102.35	-0.72	-0.08	-0.56	289.65
112	26	289.65	0.28	-1.54e-03	-6.02	0.0	-40.87	108.37	-0.94	-0.10	0.28	175.96
		175.96	-0.74	-5.65e-05	0.0	107.9	-39.16	102.35	-0.94	-0.10	-0.74	289.65
112	27	272.06	0.22	-1.45e-03	-6.02	0.0	-38.41	101.84	-0.72	-0.08	0.22	165.41
		165.41	-0.56	-4.58e-05	0.0	107.9	-36.71	95.82	-0.72	-0.08	-0.56	272.06
112	28	272.06	0.28	-1.45e-03	-6.02	0.0	-38.41	101.84	-0.94	-0.09	0.28	165.41
		165.41	-0.74	-5.60e-05	0.0	107.9	-36.71	95.82	-0.94	-0.09	-0.74	272.06
112	32	280.88	-51.27	-1.51e-03	-6.02	0.0	-52.33	105.60	-39.66	39.66	-51.27	170.18
		170.18	-96.80	0.01	0.0	107.9	-50.63	99.58	-39.66	39.66	-96.80	280.88
112	33	263.23	95.33	-1.39e-03	-6.02	0.0	-24.50	98.08	37.77	-39.85	51.84	160.65
		160.65	51.84	-0.01	0.0	107.9	-22.80	92.06	37.77	-39.85	95.33	263.23
112	88	269.05	-10.83	-1.48e-03	-6.02	0.0	-93.95	101.95	-12.60	13.88	-10.83	162.31
		162.31	-30.58	3.69e-03	0.0	107.9	-92.25	95.92	-12.60	13.88	-30.58	269.05
112	89	275.06	29.11	-1.41e-03	-6.02	0.0	17.12	101.74	10.71	-14.07	11.39	168.52
		168.52	11.39	-3.80e-03	0.0	107.9	18.82	95.71	10.71	-14.07	29.11	275.06
112	94	270.23	-26.54	-1.44e-03	-6.02	0.0	-44.72	101.27	-21.10	20.63	-26.54	164.19
		164.19	-50.68	5.83e-03	0.0	107.9	-43.02	95.25	-21.10	20.63	-50.68	270.23
112	95	273.88	49.20	-1.45e-03	-6.02	0.0	-32.11	102.41	19.21	-20.82	27.10	166.63
		166.63	27.10	-5.94e-03	0.0	107.9	-30.40	96.39	19.21	-20.82	49.20	273.88
112	122	264.17	-5.47	-1.43e-03	-6.02	0.0	-66.04	99.40	-7.00	7.24	-5.47	160.16
		160.16	-16.25	1.89e-03	0.0	107.9	-64.34	93.38	-7.00	7.24	-16.25	264.17
112	123	279.94	14.77	-1.46e-03	-6.02	0.0	-10.79	104.28	5.11	-7.43	6.03	170.66
		170.66	6.03	-2.00e-03	0.0	107.9	-9.09	98.26	5.11	-7.43	14.77	279.94
112	151	226.65	-13.54	-1.21e-03	-6.02	0.0	-47.56	84.33	-11.48	12.59	-13.54	138.83
		138.83	-27.00	3.39e-03	0.0	107.9	-45.86	78.30	-11.48	12.59	-27.00	226.65
112	154	317.46	25.52	-1.68e-03	-6.02	0.0	-29.27	119.36	9.59	-12.78	14.10	191.99
		191.99	14.10	-3.50e-03	0.0	107.9	-27.57	113.34	9.59	-12.78	25.52	317.46
112	157	272.06	0.22	-1.45e-03	-6.02	0.0	-38.41	101.84	-0.72	-0.08	0.22	165.41
		165.41	-0.56	-4.58e-05	0.0	107.9	-36.71	95.82	-0.72	-0.08	-0.56	272.06
112	158	272.06	0.28	-1.45e-03	-6.02	0.0	-38.41	101.84	-0.94	-0.09	0.28	165.41
		165.41	-0.74	-5.60e-05	0.0	107.9	-36.71	95.82	-0.94	-0.09	-0.74	272.06
113	3	215.06	2.07	2.65e-03	-6.10	0.0	-49.87	-132.41	1.51	0.14	0.45	215.06
		69.80	0.45	9.41e-05	0.0	107.2	-51.60	-138.52	1.51	0.14	2.07	69.80
113	5	165.38	0.97	2.04e-03	-4.70	0.0	-38.48	-101.82	0.71	0.08	0.21	165.38
		53.68	0.21	4.81e-05	0.0	107.2	-39.81	-106.52	0.71	0.08	0.97	53.68
113	11	294.16	1.82	3.62e-03	-6.10	0.0	-68.25	-181.39	1.34	0.15	0.38	294.16
		96.38	0.38	8.84e-05	0.0	107.2	-69.98	-187.49	1.34	0.15	1.82	96.38
113	12	244.48	0.94	3.01e-03	-4.70	0.0	-56.86	-150.80	0.71	0.10	0.18	244.48
		80.26	0.18	5.09e-05	0.0	107.2	-58.19	-155.49	0.71	0.10	0.94	80.26
113	15	165.41	1.00	2.04e-03	-4.70	0.0	-38.41	-101.84	0.72	0.08	0.22	165.41
		53.69	0.22	4.96e-05	0.0	107.2	-39.74	-106.54	0.72	0.08	1.00	53.69

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
113	17	165.41	1.49	2.04e-03	-4.70	0.0	-38.42	-101.84	1.09	0.10	0.32	165.41
		53.69	0.32	6.83e-05	0.0	107.2	-39.74	-106.54	1.09	0.10	1.49	53.69
113	19	218.14	0.98	2.69e-03	-4.70	0.0	-50.67	-134.49	0.72	0.09	0.20	218.14
		71.41	0.20	5.14e-05	0.0	107.2	-51.99	-139.19	0.72	0.09	0.98	71.41
113	21	218.14	1.33	2.69e-03	-4.70	0.0	-50.67	-134.49	0.98	0.11	0.28	218.14
		71.41	0.28	6.46e-05	0.0	107.2	-52.00	-139.19	0.98	0.11	1.33	71.41
113	22	165.41	1.00	2.04e-03	-4.70	0.0	-38.41	-101.84	0.72	0.08	0.22	165.41
		53.69	0.22	4.96e-05	0.0	107.2	-39.74	-106.54	0.72	0.08	1.00	53.69
113	23	165.41	1.34	2.04e-03	-4.70	0.0	-38.41	-101.84	0.98	0.10	0.29	165.41
		53.69	0.29	6.27e-05	0.0	107.2	-39.74	-106.54	0.98	0.10	1.34	53.69
113	24	175.96	0.99	2.17e-03	-4.70	0.0	-40.86	-108.37	0.72	0.08	0.22	175.96
		57.23	0.22	4.99e-05	0.0	107.2	-42.19	-113.07	0.72	0.08	0.99	57.23
113	26	175.96	1.29	2.17e-03	-4.70	0.0	-40.87	-108.37	0.94	0.10	0.28	175.96
		57.23	0.28	6.12e-05	0.0	107.2	-42.19	-113.07	0.94	0.10	1.29	57.23
113	27	165.41	1.00	2.04e-03	-4.70	0.0	-38.41	-101.84	0.72	0.08	0.22	165.41
		53.69	0.22	4.96e-05	0.0	107.2	-39.74	-106.54	0.72	0.08	1.00	53.69
113	28	165.41	1.29	2.04e-03	-4.70	0.0	-38.41	-101.84	0.94	0.09	0.28	165.41
		53.69	0.28	6.08e-05	0.0	107.2	-39.74	-106.54	0.94	0.09	1.29	53.69
113	47	160.43	-11.69	1.96e-03	-4.70	0.0	-24.75	-98.02	39.21	-38.04	-54.27	160.43
		52.68	-54.27	-0.01	0.0	107.2	-26.08	-102.71	39.21	-38.04	-11.69	52.68
113	50	170.39	54.83	2.11e-03	-4.70	0.0	-52.08	-105.67	-37.32	38.23	54.83	170.39
		54.69	14.28	0.01	0.0	107.2	-53.40	-110.36	-37.32	38.23	14.28	54.69
113	78	162.31	0.09	2.06e-03	-4.70	0.0	-96.61	-101.30	13.02	-13.88	-10.83	162.31
		51.23	-10.83	-3.44e-03	0.0	107.2	-97.93	-106.00	13.02	-13.88	0.09	51.23
113	83	168.52	11.39	2.02e-03	-4.70	0.0	19.78	-102.38	-11.13	14.07	11.39	168.52
		56.15	2.49	3.56e-03	0.0	107.2	18.45	-107.08	-11.13	14.07	2.49	56.15
113	102	166.52	-5.39	2.04e-03	-4.70	0.0	-32.23	-102.44	20.90	-19.73	-28.03	166.52
		54.13	-28.03	-5.55e-03	0.0	107.2	-33.56	-107.13	20.90	-19.73	-5.39	54.13
113	103	164.31	28.60	2.03e-03	-4.70	0.0	-44.60	-101.25	-19.01	19.92	28.60	164.31
		53.24	7.98	5.68e-03	0.0	107.2	-45.92	-105.94	-19.01	19.92	7.98	53.24
113	117	160.16	0.66	2.00e-03	-4.70	0.0	-67.43	-99.01	7.22	-7.24	-5.47	160.16
		51.47	-5.47	-1.74e-03	0.0	107.2	-68.76	-103.70	7.22	-7.24	0.66	51.47
113	120	170.66	6.03	2.07e-03	-4.70	0.0	-9.40	-104.67	-5.33	7.43	6.03	170.66
		55.91	1.93	1.86e-03	0.0	107.2	-10.73	-109.37	-5.33	7.43	1.93	55.91
113	133	138.83	-1.85	1.72e-03	-4.70	0.0	-48.45	-83.72	11.71	-12.59	-13.54	138.83
		46.26	-13.54	-3.17e-03	0.0	107.2	-49.78	-88.41	11.71	-12.59	-1.85	46.26
113	140	191.99	14.10	2.36e-03	-4.70	0.0	-28.37	-119.97	-9.82	12.78	14.10	191.99
		61.12	4.44	3.29e-03	0.0	107.2	-29.70	-124.66	-9.82	12.78	4.44	61.12
113	157	165.41	1.00	2.04e-03	-4.70	0.0	-38.41	-101.84	0.72	0.08	0.22	165.41
		53.69	0.22	4.96e-05	0.0	107.2	-39.74	-106.54	0.72	0.08	1.00	53.69
113	158	165.41	1.29	2.04e-03	-4.70	0.0	-38.41	-101.84	0.94	0.09	0.28	165.41
		53.69	0.28	6.08e-05	0.0	107.2	-39.74	-106.54	0.94	0.09	1.29	53.69
114	3	215.06	2.07	-2.65e-03	-6.10	0.0	-51.60	138.52	-1.51	-0.14	2.07	215.06
		69.80	0.45	-9.41e-05	0.0	107.2	-49.87	132.41	-1.51	-0.14	0.45	69.80
114	5	165.38	0.97	-2.04e-03	-4.70	0.0	-39.81	106.52	-0.71	-0.08	0.97	165.38
		53.68	0.21	-4.81e-05	0.0	107.2	-38.48	101.82	-0.71	-0.08	0.21	53.68
114	11	294.16	1.82	-3.62e-03	-6.10	0.0	-69.98	187.49	-1.34	-0.15	1.82	294.16
		96.38	0.38	-8.84e-05	0.0	107.2	-68.25	181.39	-1.34	-0.15	0.38	96.38
114	12	244.48	0.94	-3.01e-03	-4.70	0.0	-58.19	155.49	-0.71	-0.10	0.94	244.48
		80.26	0.18	-5.09e-05	0.0	107.2	-56.86	150.80	-0.71	-0.10	0.18	80.26
114	15	165.41	1.00	-2.04e-03	-4.70	0.0	-39.74	106.54	-0.72	-0.08	1.00	165.41
		53.69	0.22	-4.96e-05	0.0	107.2	-38.41	101.84	-0.72	-0.08	0.22	53.69
114	17	165.41	1.49	-2.04e-03	-4.70	0.0	-39.74	106.54	-1.09	-0.10	1.49	165.41
		53.69	0.32	-6.83e-05	0.0	107.2	-38.42	101.84	-1.09	-0.10	0.32	53.69
114	19	218.14	0.98	-2.69e-03	-4.70	0.0	-51.99	139.19	-0.72	-0.09	0.98	218.14
		71.41	0.20	-5.14e-05	0.0	107.2	-50.67	134.49	-0.72	-0.09	0.20	71.41
114	21	218.14	1.33	-2.69e-03	-4.70	0.0	-52.00	139.19	-0.98	-0.11	1.33	218.14
		71.41	0.28	-6.46e-05	0.0	107.2	-50.67	134.49	-0.98	-0.11	0.28	71.41
114	22	165.41	1.00	-2.04e-03	-4.70	0.0	-39.74	106.54	-0.72	-0.08	1.00	165.41
		53.69	0.22	-4.96e-05	0.0	107.2	-38.41	101.84	-0.72	-0.08	0.22	53.69
114	23	165.41	1.34	-2.04e-03	-4.70	0.0	-39.74	106.54	-0.98	-0.10	1.34	165.41
		53.69	0.29	-6.27e-05	0.0	107.2	-38.41	101.84	-0.98	-0.10	0.29	53.69
114	24	175.96	0.99	-2.17e-03	-4.70	0.0	-42.19	113.07	-0.72	-0.08	0.99	175.96
		57.23	0.22	-4.99e-05	0.0	107.2	-40.86	108.37	-0.72	-0.08	0.22	57.23
114	26	175.96	1.29	-2.17e-03	-4.70	0.0	-42.19	113.07	-0.94	-0.10	1.29	175.96
		57.23	0.28	-6.12e-05	0.0	107.2	-40.87	108.37	-0.94	-0.10	0.28	57.23
114	27	165.41	1.00	-2.04e-03	-4.70	0.0	-39.74	106.54	-0.72	-0.08	1.00	165.41
		53.69	0.22	-4.96e-05	0.0	107.2	-38.41	101.84	-0.72	-0.08	0.22	53.69
114	28	165.41	1.29	-2.04e-03	-4.70	0.0	-39.74	106.54	-0.94	-0.09	1.29	165.41
		53.69	0.28	-6.08e-05	0.0	107.2	-38.41	101.84	-0.94	-0.09	0.28	53.69
114	29	160.43	-11.69	-1.96e-03	-4.70	0.0	-26.08	102.71	-39.21	38.04	-11.69	160.43
		52.69	-54.27	0.01	0.0	107.2	-24.75	98.01	-39.21	38.04	-54.27	52.69

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
114	36	170.39	54.83	-2.11e-03	-4.70	0.0	-53.40	110.36	37.32	-38.23	14.28	54.69
		54.69	14.28	-0.01	0.0	107.2	-52.08	105.67	37.32	-38.23	54.83	170.39
114	88	162.31	0.09	-2.06e-03	-4.70	0.0	-97.93	106.00	-13.02	13.88	0.09	51.23
		51.23	-10.83	3.44e-03	0.0	107.2	-96.60	101.30	-13.02	13.88	-10.83	162.31
114	89	168.52	11.39	-2.02e-03	-4.70	0.0	18.45	107.08	11.13	-14.07	2.49	56.15
		56.15	2.49	-3.56e-03	0.0	107.2	19.78	102.38	11.13	-14.07	11.39	168.52
114	93	166.52	-5.39	-2.04e-03	-4.70	0.0	-33.56	107.13	-20.90	19.73	-5.39	54.13
		54.13	-28.03	5.55e-03	0.0	107.2	-32.23	102.44	-20.90	19.73	-28.03	166.52
114	96	164.31	28.60	-2.03e-03	-4.70	0.0	-45.92	105.94	19.01	-19.92	7.98	53.24
		53.24	7.98	-5.68e-03	0.0	107.2	-44.60	101.25	19.01	-19.92	28.60	164.31
114	122	160.16	0.66	-2.00e-03	-4.70	0.0	-68.76	103.70	-7.22	7.24	0.66	51.47
		51.47	-5.47	1.74e-03	0.0	107.2	-67.43	99.01	-7.22	7.24	-5.47	160.16
114	123	170.66	6.03	-2.07e-03	-4.70	0.0	-10.73	109.37	5.33	-7.43	1.93	55.91
		55.91	1.93	-1.86e-03	0.0	107.2	-9.40	104.67	5.33	-7.43	6.03	170.66
114	151	138.83	-1.85	-1.72e-03	-4.70	0.0	-49.78	88.41	-11.71	12.59	-1.85	46.26
		46.26	-13.54	3.17e-03	0.0	107.2	-48.46	83.72	-11.71	12.59	-13.54	138.83
114	154	191.99	14.10	-2.36e-03	-4.70	0.0	-29.70	124.66	9.82	-12.78	4.43	61.12
		61.12	4.43	-3.29e-03	0.0	107.2	-28.37	119.97	9.82	-12.78	14.10	191.99
114	157	165.41	1.00	-2.04e-03	-4.70	0.0	-39.74	106.54	-0.72	-0.08	1.00	53.69
		53.69	0.22	-4.96e-05	0.0	107.2	-38.41	101.84	-0.72	-0.08	0.22	165.41
114	158	165.41	1.29	-2.04e-03	-4.70	0.0	-39.74	106.54	-0.94	-0.09	1.29	53.69
		53.69	0.28	-6.08e-05	0.0	107.2	-38.41	101.84	-0.94	-0.09	0.28	165.41
115	4	595.07	0.53	-2.86e-04	-8.85	0.0	-16.16	4.99	0.0	-0.15	0.53	593.31
		593.31	0.53	-1.14e-04	0.0	125.1	-13.66	-3.86	0.0	-0.15	0.53	594.02
115	5	386.87	0.29	-1.86e-04	-6.81	0.0	-10.92	4.26	0.0	-0.08	0.29	385.20
		385.20	0.29	-5.60e-05	0.0	125.1	-9.00	-2.54	0.0	-0.08	0.29	386.28
115	7	386.87	0.41	-1.86e-04	-6.81	0.0	-10.93	4.26	0.0	-0.12	0.41	385.20
		385.20	0.41	-9.30e-05	0.0	125.1	-9.01	-2.54	0.0	-0.12	0.41	386.28
115	9	687.03	0.43	-3.30e-04	-8.85	0.0	-18.26	4.40	0.0	-0.12	0.43	685.66
		685.63	0.43	-7.83e-05	0.0	125.1	-15.76	-4.45	0.0	-0.12	0.43	685.63
115	11	687.03	0.52	-3.30e-04	-8.85	0.0	-18.26	4.40	0.0	-0.15	0.52	685.66
		685.63	0.52	-1.04e-04	0.0	125.1	-15.76	-4.45	0.0	-0.15	0.52	685.63
115	15	386.98	0.29	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.08	0.29	385.29
		385.29	0.29	-5.75e-05	0.0	125.1	-8.93	-2.52	0.0	-0.08	0.29	386.39
115	17	386.98	0.37	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.10	0.37	385.29
		385.29	0.37	-8.22e-05	0.0	125.1	-8.94	-2.52	0.0	-0.10	0.37	386.39
115	18	448.24	0.39	-2.15e-04	-6.81	0.0	-12.26	3.89	0.0	-0.11	0.39	446.86
		446.86	0.39	-8.29e-05	0.0	125.1	-10.34	-2.92	0.0	-0.11	0.39	447.46
115	19	509.54	0.33	-2.45e-04	-6.81	0.0	-13.67	3.49	0.0	-0.09	0.33	508.42
		508.42	0.33	-5.89e-05	0.0	125.1	-11.74	-3.32	0.0	-0.09	0.33	508.53
115	21	509.54	0.39	-2.45e-04	-6.81	0.0	-13.67	3.49	0.0	-0.11	0.39	508.42
		508.42	0.39	-7.62e-05	0.0	125.1	-11.74	-3.32	0.0	-0.11	0.39	508.53
115	22	386.98	0.29	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.08	0.29	385.29
		385.29	0.29	-5.75e-05	0.0	125.1	-8.93	-2.52	0.0	-0.08	0.29	386.39
115	23	386.98	0.34	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.10	0.34	385.29
		385.29	0.34	-7.48e-05	0.0	125.1	-8.94	-2.52	0.0	-0.10	0.34	386.39
115	24	411.48	0.29	-1.98e-04	-6.81	0.0	-11.42	4.12	0.0	-0.08	0.29	409.92
		409.92	0.29	-5.78e-05	0.0	125.1	-9.50	-2.68	0.0	-0.08	0.29	410.82
115	26	411.48	0.34	-1.98e-04	-6.81	0.0	-11.42	4.12	0.0	-0.10	0.34	409.92
		409.92	0.34	-7.26e-05	0.0	125.1	-9.50	-2.68	0.0	-0.10	0.34	410.82
115	27	386.98	0.29	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.08	0.29	385.29
		385.29	0.29	-5.75e-05	0.0	125.1	-8.93	-2.52	0.0	-0.08	0.29	386.39
115	28	386.98	0.34	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.09	0.34	385.29
		385.29	0.34	-7.23e-05	0.0	125.1	-8.94	-2.52	0.0	-0.09	0.34	386.39
115	29	368.74	-139.77	-1.71e-04	-6.81	0.0	-7.08	1.30	3.64	38.04	-142.37	368.51
		366.25	-142.37	4.95e-03	0.0	125.1	-5.16	-5.50	3.64	38.04	-139.77	366.25
115	36	406.53	143.05	-2.01e-04	-6.81	0.0	-14.63	7.26	-3.64	-38.23	143.05	402.07
		402.07	140.45	-5.09e-03	0.0	125.1	-12.71	0.46	-3.64	-38.23	140.45	406.53
115	93	387.46	-72.60	-1.83e-04	-6.81	0.0	-10.38	3.20	1.96	19.73	-74.01	386.50
		386.29	-74.01	2.52e-03	0.0	125.1	-8.45	-3.61	1.96	19.73	-72.60	386.29
115	96	386.68	74.68	-1.89e-04	-6.81	0.0	-11.34	5.37	-1.96	-19.92	74.68	384.08
		384.08	73.27	-2.66e-03	0.0	125.1	-9.42	-1.44	-1.96	-19.92	73.27	386.49
115	122	386.36	-19.01	-2.00e-04	-6.81	0.0	-13.15	9.01	-1.87	7.24	-19.01	379.34
		379.34	-21.15	1.24e-03	0.0	125.1	-11.23	2.20	-1.87	7.24	-21.15	386.36
115	123	391.24	21.82	-1.72e-04	-6.81	0.0	-8.56	-0.44	1.87	-7.43	19.69	391.24
		386.42	19.69	-1.39e-03	0.0	125.1	-6.64	-7.25	1.87	-7.43	21.82	386.42
115	151	320.25	-39.21	-1.63e-04	-6.81	0.0	-2.64	3.86	-2.14	12.59	-39.21	318.29
		318.29	-41.62	1.92e-03	0.0	125.1	-0.72	-2.95	-2.14	12.59	-41.62	319.81
115	152	452.86	-38.71	-2.25e-04	-6.81	0.0	-21.76	10.16	-2.21	12.43	-38.71	445.30
		445.30	-41.06	1.91e-03	0.0	125.1	-19.84	3.35	-2.21	12.43	-41.06	452.86
115	153	325.28	41.73	-1.47e-04	-6.81	0.0	0.05	-1.59	2.21	-12.62	39.39	325.28
		319.92	39.39	-2.06e-03	0.0	125.1	1.97	-8.40	2.21	-12.62	41.73	319.92

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
115	154	453.72	42.29	-2.09e-04	-6.81	0.0	-19.08	4.71	2.14	-12.78	39.88	452.29
		452.29	39.88	-2.07e-03	0.0	125.1	-17.16	-2.10	2.14	-12.78	42.29	452.97
115	157	386.98	0.29	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.08	0.29	385.29
		385.29	0.29	-5.75e-05	0.0	125.1	-8.93	-2.52	0.0	-0.08	0.29	386.39
115	158	386.98	0.34	-1.86e-04	-6.81	0.0	-10.86	4.28	0.0	-0.09	0.34	385.29
		385.29	0.34	-7.23e-05	0.0	125.1	-8.94	-2.52	0.0	-0.09	0.34	386.39
116	4	454.27	-0.86	-6.10e-04	-3.01	0.0	-39.86	88.92	0.80	-0.15	-1.18	418.02
		418.02	-1.18	-3.71e-05	0.0	41.5	-39.01	85.91	0.80	-0.15	-0.86	454.27
116	5	294.85	-0.40	-3.96e-04	-2.31	0.0	-26.33	58.80	0.39	-0.08	-0.56	270.94
		270.94	-0.56	-1.87e-05	0.0	41.5	-25.68	56.49	0.39	-0.08	-0.40	294.85
116	11	525.11	-0.76	-7.04e-04	-3.01	0.0	-45.65	101.36	0.74	-0.15	-1.06	483.70
		483.70	-1.06	-3.44e-05	0.0	41.5	-44.80	98.35	0.74	-0.15	-0.76	525.11
116	15	294.91	-0.40	-3.96e-04	-2.31	0.0	-26.26	58.82	0.39	-0.08	-0.56	270.99
		270.99	-0.56	-1.91e-05	0.0	41.5	-25.61	56.51	0.39	-0.08	-0.40	294.91
116	18	342.13	-0.62	-4.59e-04	-2.31	0.0	-30.12	67.11	0.58	-0.11	-0.86	314.78
		314.78	-0.86	-2.69e-05	0.0	41.5	-29.47	64.80	0.58	-0.11	-0.62	342.13
116	21	389.35	-0.56	-5.22e-04	-2.31	0.0	-33.98	75.40	0.54	-0.11	-0.78	358.57
		358.57	-0.78	-2.52e-05	0.0	41.5	-33.33	73.09	0.54	-0.11	-0.56	389.35
116	22	294.91	-0.40	-3.96e-04	-2.31	0.0	-26.26	58.82	0.39	-0.08	-0.56	270.99
		270.99	-0.56	-1.91e-05	0.0	41.5	-25.61	56.51	0.39	-0.08	-0.40	294.91
116	23	294.91	-0.55	-3.96e-04	-2.31	0.0	-26.26	58.82	0.52	-0.10	-0.77	270.99
		270.99	-0.77	-2.43e-05	0.0	41.5	-25.61	56.51	0.52	-0.10	-0.55	294.91
116	26	313.80	-0.53	-4.21e-04	-2.31	0.0	-27.81	62.14	0.50	-0.10	-0.74	288.51
		288.51	-0.74	-2.37e-05	0.0	41.5	-27.15	59.82	0.50	-0.10	-0.53	313.80
116	27	294.91	-0.40	-3.96e-04	-2.31	0.0	-26.26	58.82	0.39	-0.08	-0.56	270.99
		270.99	-0.56	-1.91e-05	0.0	41.5	-25.61	56.51	0.39	-0.08	-0.40	294.91
116	28	294.91	-0.53	-3.96e-04	-2.31	0.0	-26.26	58.82	0.50	-0.09	-0.74	270.99
		270.99	-0.74	-2.36e-05	0.0	41.5	-25.61	56.51	0.50	-0.09	-0.53	294.91
116	32	305.12	-96.80	-4.14e-04	-2.31	0.0	-35.89	62.49	-22.95	39.66	-96.80	279.71
		279.71	-106.21	4.09e-03	0.0	41.5	-35.24	60.17	-22.95	39.66	-106.21	305.12
116	33	284.69	105.15	-3.78e-04	-2.31	0.0	-16.63	55.16	23.95	-39.85	95.33	262.28
		262.28	95.33	-4.14e-03	0.0	41.5	-15.98	52.84	23.95	-39.85	105.15	284.69
116	88	293.70	-30.58	-4.12e-04	-2.31	0.0	-61.50	63.38	-6.12	13.88	-30.58	267.93
		267.93	-33.09	1.38e-03	0.0	41.5	-60.84	61.07	-6.12	13.88	-33.09	293.70
116	89	296.11	32.03	-3.81e-04	-2.31	0.0	8.97	54.26	7.12	-14.07	29.11	274.06
		274.06	29.11	-1.42e-03	0.0	41.5	9.63	51.94	7.12	-14.07	32.03	296.11
116	94	293.13	-50.68	-3.96e-04	-2.31	0.0	-30.14	58.94	-11.80	20.63	-50.68	269.16
		269.16	-55.51	2.11e-03	0.0	41.5	-29.48	56.62	-11.80	20.63	-55.51	293.13
116	95	296.68	54.45	-3.97e-04	-2.31	0.0	-22.39	58.71	12.80	-20.82	49.20	272.82
		272.82	49.20	-2.16e-03	0.0	41.5	-21.73	56.39	12.80	-20.82	54.45	296.68
116	122	287.28	-16.25	-3.94e-04	-2.31	0.0	-43.25	59.39	-3.00	7.24	-16.25	263.13
		263.13	-17.47	7.05e-04	0.0	41.5	-42.60	57.08	-3.00	7.24	-17.47	287.28
116	123	302.53	16.41	-3.98e-04	-2.31	0.0	-9.27	58.25	3.99	-7.43	14.77	278.86
		278.86	14.77	-7.52e-04	0.0	41.5	-8.62	55.93	3.99	-7.43	16.41	302.53
116	151	245.28	-27.00	-3.32e-04	-2.31	0.0	-28.29	47.64	-6.89	12.59	-27.00	225.88
		225.88	-29.78	1.25e-03	0.0	41.5	-27.63	45.32	-6.89	12.59	-29.78	245.28
116	154	344.53	28.72	-4.60e-04	-2.31	0.0	-24.24	70.00	7.88	-12.78	25.52	316.11
		316.11	25.52	-1.30e-03	0.0	41.5	-23.59	67.69	7.88	-12.78	28.72	344.53
116	157	294.91	-0.40	-3.96e-04	-2.31	0.0	-26.26	58.82	0.39	-0.08	-0.56	270.99
		270.99	-0.56	-1.91e-05	0.0	41.5	-25.61	56.51	0.39	-0.08	-0.40	294.91
116	158	294.91	-0.53	-3.96e-04	-2.31	0.0	-26.26	58.82	0.50	-0.09	-0.74	270.99
		270.99	-0.74	-2.36e-05	0.0	41.5	-25.61	56.51	0.50	-0.09	-0.53	294.91
117	4	593.82	0.53	1.22e-04	-1.72	0.0	-35.83	-74.65	-0.80	0.15	0.53	593.82
		575.48	0.33	2.39e-05	0.0	24.3	-36.32	-76.37	-0.80	0.15	0.33	575.48
117	5	385.53	0.29	7.91e-05	-1.32	0.0	-23.23	-47.83	-0.39	0.08	0.29	385.53
		373.75	0.19	1.18e-05	0.0	24.3	-23.60	-49.15	-0.39	0.08	0.19	373.75
117	7	385.53	0.41	7.91e-05	-1.32	0.0	-23.23	-47.83	-0.66	0.12	0.41	385.53
		373.75	0.25	1.94e-05	0.0	24.3	-23.61	-49.15	-0.66	0.12	0.25	373.75
117	9	686.26	0.43	1.41e-04	-1.72	0.0	-41.62	-87.09	-0.55	0.12	0.43	686.26
		664.89	0.30	1.66e-05	0.0	24.3	-42.10	-88.81	-0.55	0.12	0.30	664.89
117	11	686.26	0.52	1.41e-04	-1.72	0.0	-41.62	-87.09	-0.74	0.15	0.52	686.26
		664.89	0.34	2.19e-05	0.0	24.3	-42.10	-88.81	-0.74	0.15	0.34	664.89
117	15	385.62	0.29	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.39	0.08	0.29	385.62
		373.83	0.19	1.21e-05	0.0	24.3	-23.53	-49.17	-0.39	0.08	0.19	373.83
117	17	385.62	0.37	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.57	0.10	0.37	385.62
		373.83	0.23	1.72e-05	0.0	24.3	-23.54	-49.17	-0.57	0.10	0.23	373.83
117	18	447.24	0.39	9.17e-05	-1.32	0.0	-27.02	-56.14	-0.58	0.11	0.39	447.24
		433.44	0.25	1.74e-05	0.0	24.3	-27.40	-57.46	-0.58	0.11	0.25	433.44
117	19	508.86	0.33	1.04e-04	-1.32	0.0	-30.88	-64.43	-0.42	0.09	0.33	508.86
		493.05	0.23	1.25e-05	0.0	24.3	-31.25	-65.75	-0.42	0.09	0.23	493.05
117	21	508.86	0.39	1.04e-04	-1.32	0.0	-30.88	-64.43	-0.54	0.11	0.39	508.86
		493.05	0.25	1.60e-05	0.0	24.3	-31.25	-65.75	-0.54	0.11	0.25	493.05

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
117	22	385.62	0.29	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.39	0.08	0.29	385.62
		373.83	0.19	1.21e-05	0.0	24.3	-23.53	-49.17	-0.39	0.08	0.19	373.83
117	23	385.62	0.34	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.52	0.10	0.34	385.62
		373.83	0.22	1.56e-05	0.0	24.3	-23.54	-49.17	-0.52	0.10	0.22	373.83
117	24	410.27	0.29	8.42e-05	-1.32	0.0	-24.70	-51.16	-0.40	0.08	0.29	410.27
		397.68	0.20	1.22e-05	0.0	24.3	-25.08	-52.48	-0.40	0.08	0.20	397.68
117	26	410.26	0.34	8.42e-05	-1.32	0.0	-24.71	-51.16	-0.50	0.10	0.34	410.26
		397.67	0.22	1.52e-05	0.0	24.3	-25.08	-52.48	-0.50	0.10	0.22	397.67
117	27	385.62	0.29	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.39	0.08	0.29	385.62
		373.83	0.19	1.21e-05	0.0	24.3	-23.53	-49.17	-0.39	0.08	0.19	373.83
117	28	385.62	0.34	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.50	0.09	0.34	385.62
		373.83	0.21	1.51e-05	0.0	24.3	-23.54	-49.17	-0.50	0.09	0.21	373.83
117	47	368.81	-137.72	7.42e-05	-1.32	0.0	-14.88	-44.22	20.09	-38.04	-142.37	368.81
		357.89	-142.37	-1.41e-03	0.0	24.3	-15.25	-45.54	20.09	-38.04	-137.72	357.89
117	50	402.42	143.05	8.41e-05	-1.32	0.0	-31.45	-51.48	-21.09	38.23	143.05	402.42
		389.78	138.15	1.44e-03	0.0	24.3	-31.82	-52.80	-21.09	38.23	138.15	389.78
117	78	393.22	-35.30	8.75e-05	-1.32	0.0	-53.87	-53.34	5.06	-13.88	-36.88	393.22
		380.11	-36.88	-5.91e-04	0.0	24.3	-54.24	-54.66	5.06	-13.88	-35.30	380.11
117	83	378.01	37.55	7.09e-05	-1.32	0.0	7.54	-42.36	-6.06	14.07	37.55	378.01
		367.55	35.73	6.22e-04	0.0	24.3	7.17	-43.68	-6.06	14.07	35.73	367.55
117	102	386.83	-71.64	7.86e-05	-1.32	0.0	-20.05	-47.55	10.22	-19.73	-74.01	386.83
		375.11	-74.01	-7.21e-04	0.0	24.3	-20.42	-48.87	10.22	-19.73	-71.64	375.11
117	103	384.40	74.68	7.97e-05	-1.32	0.0	-26.28	-48.14	-11.22	19.92	74.68	384.40
		372.55	72.07	7.52e-04	0.0	24.3	-26.65	-49.46	-11.22	19.92	72.07	372.55
117	117	379.69	-18.24	8.14e-05	-1.32	0.0	-37.77	-49.09	2.44	-7.24	-19.01	379.69
		367.60	-19.01	-3.03e-04	0.0	24.3	-38.15	-50.41	2.44	-7.24	-18.24	367.60
117	120	391.55	19.69	7.69e-05	-1.32	0.0	-8.55	-46.60	-3.44	7.43	19.69	391.55
		380.07	18.67	3.33e-04	0.0	24.3	-8.92	-47.92	-3.44	7.43	18.67	380.07
117	133	318.54	-37.69	6.73e-05	-1.32	0.0	-23.55	-38.30	6.03	-12.59	-39.21	318.54
		309.03	-39.21	-4.99e-04	0.0	24.3	-23.93	-39.63	6.03	-12.59	-37.69	309.03
117	140	452.69	39.88	9.10e-05	-1.32	0.0	-22.77	-57.39	-7.03	12.78	39.88	452.69
		438.63	38.12	5.29e-04	0.0	24.3	-23.15	-58.71	-7.03	12.78	38.12	438.63
117	157	385.62	0.29	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.39	0.08	0.29	385.62
		373.83	0.19	1.21e-05	0.0	24.3	-23.53	-49.17	-0.39	0.08	0.19	373.83
117	158	385.62	0.34	7.92e-05	-1.32	0.0	-23.16	-47.85	-0.50	0.09	0.34	385.62
		373.83	0.21	1.51e-05	0.0	24.3	-23.54	-49.17	-0.50	0.09	0.21	373.83
118	3	353.72	0.45	1.88e-03	-7.83	0.0	-47.66	-124.58	1.51	0.14	-1.17	353.72
		215.06	-1.17	8.64e-05	0.0	107.9	-49.87	-132.41	1.51	0.14	0.45	215.06
118	4	419.69	0.44	2.23e-03	-7.83	0.0	-56.85	-149.07	1.50	0.15	-1.18	419.69
		254.61	-1.18	8.80e-05	0.0	107.9	-59.06	-156.90	1.50	0.15	0.44	254.61
118	5	272.01	0.21	1.45e-03	-6.02	0.0	-36.78	-95.80	0.71	0.08	-0.56	272.01
		165.38	-0.56	4.46e-05	0.0	107.9	-38.48	-101.82	0.71	0.08	0.21	165.38
118	9	485.66	0.27	2.58e-03	-7.83	0.0	-66.04	-173.56	0.95	0.12	-0.76	485.66
		294.16	-0.76	6.41e-05	0.0	107.9	-68.25	-181.39	0.95	0.12	0.27	294.16
118	11	485.66	0.38	2.58e-03	-7.83	0.0	-66.04	-173.56	1.34	0.15	-1.06	485.66
		294.16	-1.06	8.19e-05	0.0	107.9	-68.25	-181.39	1.34	0.15	0.38	294.16
118	15	272.05	0.22	1.45e-03	-6.02	0.0	-36.71	-95.82	0.72	0.08	-0.56	272.05
		165.41	-0.56	4.58e-05	0.0	107.9	-38.41	-101.84	0.72	0.08	0.22	165.41
118	17	272.05	0.32	1.45e-03	-6.02	0.0	-36.71	-95.82	1.09	0.10	-0.86	272.05
		165.41	-0.86	6.28e-05	0.0	107.9	-38.41	-101.84	1.09	0.10	0.32	165.41
118	18	316.03	0.31	1.68e-03	-6.02	0.0	-42.84	-112.14	1.09	0.11	-0.86	316.03
		191.78	-0.86	6.39e-05	0.0	107.9	-44.54	-118.17	1.09	0.11	0.31	191.78
118	19	360.01	0.20	1.91e-03	-6.02	0.0	-48.97	-128.47	0.72	0.09	-0.58	360.01
		218.14	-0.58	4.80e-05	0.0	107.9	-50.67	-134.49	0.72	0.09	0.20	218.14
118	21	360.01	0.28	1.91e-03	-6.02	0.0	-48.97	-128.47	0.98	0.11	-0.78	360.01
		218.14	-0.78	5.99e-05	0.0	107.9	-50.67	-134.49	0.98	0.11	0.28	218.14
118	22	272.05	0.22	1.45e-03	-6.02	0.0	-36.71	-95.82	0.72	0.08	-0.56	272.05
		165.41	-0.56	4.58e-05	0.0	107.9	-38.41	-101.84	0.72	0.08	0.22	165.41
118	23	272.05	0.29	1.45e-03	-6.02	0.0	-36.71	-95.82	0.98	0.10	-0.77	272.05
		165.41	-0.77	5.77e-05	0.0	107.9	-38.41	-101.84	0.98	0.10	0.29	165.41
118	24	289.65	0.22	1.54e-03	-6.02	0.0	-39.16	-102.35	0.72	0.08	-0.56	289.65
		175.96	-0.56	4.63e-05	0.0	107.9	-40.86	-108.37	0.72	0.08	0.22	175.96
118	26	289.65	0.28	1.54e-03	-6.02	0.0	-39.16	-102.35	0.94	0.10	-0.74	289.65
		175.96	-0.74	5.65e-05	0.0	107.9	-40.87	-108.37	0.94	0.10	0.28	175.96
118	27	272.05	0.22	1.45e-03	-6.02	0.0	-36.71	-95.82	0.72	0.08	-0.56	272.05
		165.41	-0.56	4.58e-05	0.0	107.9	-38.41	-101.84	0.72	0.08	0.22	165.41
118	28	272.05	0.28	1.45e-03	-6.02	0.0	-36.71	-95.82	0.94	0.09	-0.74	272.05
		165.41	-0.74	5.60e-05	0.0	107.9	-38.41	-101.84	0.94	0.09	0.28	165.41
118	46	280.88	-51.27	1.51e-03	-6.02	0.0	-50.63	-99.58	39.66	-39.66	-96.80	280.88
		170.18	-96.80	-0.01	0.0	107.9	-52.33	-105.60	39.66	-39.66	-51.27	170.18
118	51	263.23	95.33	1.39e-03	-6.02	0.0	-22.79	-92.06	-37.77	39.85	95.33	263.23
		160.65	51.84	0.01	0.0	107.9	-24.50	-98.08	-37.77	39.85	51.84	160.65

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
118	78	269.05	-10.83	1.48e-03	-6.02	0.0	-92.25	-95.92	12.60	-13.88	-30.58	269.05
		162.31	-30.58	-3.69e-03	0.0	107.9	-93.95	-101.95	12.60	-13.88	-10.83	162.31
118	83	275.06	29.11	1.41e-03	-6.02	0.0	18.82	-95.71	-10.71	14.07	29.11	275.06
		168.52	11.39	3.80e-03	0.0	107.9	17.12	-101.74	-10.71	14.07	11.39	168.52
118	101	270.23	-26.54	1.44e-03	-6.02	0.0	-43.02	-95.25	21.10	-20.63	-50.68	270.23
		164.19	-50.68	-5.83e-03	0.0	107.9	-44.72	-101.27	21.10	-20.63	-26.54	164.19
118	104	273.88	49.20	1.45e-03	-6.02	0.0	-30.40	-96.39	-19.21	20.82	49.20	273.88
		166.63	27.10	5.94e-03	0.0	107.9	-32.11	-102.41	-19.21	20.82	27.10	166.63
118	117	264.17	-5.47	1.43e-03	-6.02	0.0	-64.34	-93.38	7.00	-7.24	-16.25	264.17
		160.16	-16.25	-1.89e-03	0.0	107.9	-66.04	-99.40	7.00	-7.24	-5.47	160.16
118	120	279.94	14.77	1.46e-03	-6.02	0.0	-9.09	-98.26	-5.11	7.43	14.77	279.94
		170.66	6.03	2.00e-03	0.0	107.9	-10.79	-104.28	-5.11	7.43	6.03	170.66
118	133	226.65	-13.54	1.21e-03	-6.02	0.0	-45.85	-78.30	11.48	-12.59	-27.00	226.65
		138.83	-27.00	-3.39e-03	0.0	107.9	-47.55	-84.33	11.48	-12.59	-13.54	138.83
118	140	317.46	25.52	1.68e-03	-6.02	0.0	-27.57	-113.34	-9.59	12.78	25.52	317.46
		191.99	14.10	3.50e-03	0.0	107.9	-29.28	-119.36	-9.59	12.78	14.10	191.99
118	157	272.05	0.22	1.45e-03	-6.02	0.0	-36.71	-95.82	0.72	0.08	-0.56	272.05
		165.41	-0.56	4.58e-05	0.0	107.9	-38.41	-101.84	0.72	0.08	0.22	165.41
118	158	272.05	0.28	1.45e-03	-6.02	0.0	-36.71	-95.82	0.94	0.09	-0.74	272.05
		165.41	-0.74	5.60e-05	0.0	107.9	-38.41	-101.84	0.94	0.09	0.28	165.41
119	3	72.49	2.07	1.04e-03	-2.10	0.0	-67.59	-195.14	-5.59	0.14	2.07	72.49
		0.0	0.0	3.87e-05	0.0	36.9	-68.18	-197.25	-5.59	0.14	0.0	0.0
119	5	55.75	0.97	8.01e-04	-1.62	0.0	-52.11	-150.08	-2.63	0.08	0.97	55.75
		0.0	0.0	1.95e-05	0.0	36.9	-52.57	-151.70	-2.63	0.08	0.0	0.0
119	9	100.21	1.30	1.43e-03	-2.10	0.0	-93.33	-270.17	-3.51	0.12	1.30	100.21
		0.0	0.0	2.76e-05	0.0	36.9	-93.92	-272.27	-3.51	0.12	0.0	0.0
119	11	100.21	1.82	1.43e-03	-2.10	0.0	-93.33	-270.17	-4.92	0.15	1.82	100.21
		0.0	0.0	3.59e-05	0.0	36.9	-93.92	-272.27	-4.92	0.15	0.0	0.0
119	14	83.47	1.46	1.19e-03	-1.62	0.0	-77.85	-225.10	-3.96	0.12	1.46	83.47
		0.0	0.0	2.87e-05	0.0	36.9	-78.31	-226.72	-3.96	0.12	0.0	0.0
119	15	55.75	1.00	8.01e-04	-1.62	0.0	-52.04	-150.10	-2.70	0.08	1.00	55.75
		0.0	0.0	2.01e-05	0.0	36.9	-52.50	-151.71	-2.70	0.08	0.0	0.0
119	17	55.75	1.49	8.01e-04	-1.62	0.0	-52.04	-150.10	-4.04	0.10	1.49	55.75
		0.0	0.0	2.81e-05	0.0	36.9	-52.50	-151.71	-4.04	0.10	0.0	0.0
119	19	74.23	0.98	1.06e-03	-1.62	0.0	-69.20	-200.11	-2.65	0.09	0.98	74.23
		0.0	0.0	2.07e-05	0.0	36.9	-69.66	-201.73	-2.65	0.09	0.0	0.0
119	21	74.23	1.33	1.06e-03	-1.62	0.0	-69.20	-200.11	-3.59	0.11	1.33	74.23
		0.0	0.0	2.62e-05	0.0	36.9	-69.66	-201.73	-3.59	0.11	0.0	0.0
119	22	55.75	1.00	8.01e-04	-1.62	0.0	-52.04	-150.10	-2.70	0.08	1.00	55.75
		0.0	0.0	2.01e-05	0.0	36.9	-52.50	-151.71	-2.70	0.08	0.0	0.0
119	23	55.75	1.34	8.01e-04	-1.62	0.0	-52.04	-150.10	-3.64	0.10	1.34	55.75
		0.0	0.0	2.57e-05	0.0	36.9	-52.50	-151.71	-3.64	0.10	0.0	0.0
119	24	59.45	0.99	8.52e-04	-1.62	0.0	-55.47	-160.10	-2.69	0.08	0.99	59.45
		0.0	0.0	2.02e-05	0.0	36.9	-55.93	-161.72	-2.69	0.08	0.0	0.0
119	26	59.45	1.29	8.52e-04	-1.62	0.0	-55.48	-160.10	-3.49	0.10	1.29	59.45
		0.0	0.0	2.50e-05	0.0	36.9	-55.93	-161.72	-3.49	0.10	0.0	0.0
119	27	55.75	1.00	8.01e-04	-1.62	0.0	-52.04	-150.10	-2.70	0.08	1.00	55.75
		0.0	0.0	2.01e-05	0.0	36.9	-52.50	-151.71	-2.70	0.08	0.0	0.0
119	28	55.75	1.29	8.01e-04	-1.62	0.0	-52.04	-150.10	-3.50	0.09	1.29	55.75
		0.0	0.0	2.49e-05	0.0	36.9	-52.50	-151.71	-3.50	0.09	0.0	0.0
119	47	54.67	0.0	7.77e-04	-1.62	0.0	-33.69	-147.18	31.64	-38.04	-11.69	54.67
		0.0	-11.69	-3.24e-03	0.0	36.9	-34.15	-148.79	31.64	-38.04	0.0	0.0
119	50	56.83	14.28	8.25e-04	-1.62	0.0	-70.40	-153.02	-38.64	38.23	14.28	56.83
		0.0	0.0	3.29e-03	0.0	36.9	-70.85	-154.63	-38.64	38.23	0.0	0.0
119	75	56.94	2.09	7.93e-04	-1.62	0.0	6.74	-153.31	-5.65	14.53	2.09	56.94
		0.0	0.0	1.19e-03	0.0	36.9	6.28	-154.93	-5.65	14.53	0.0	0.0
119	78	53.30	0.09	8.01e-04	-1.62	0.0	-133.46	-143.45	-0.26	-13.88	0.09	53.30
		0.0	0.0	-9.37e-04	0.0	36.9	-133.92	-145.07	-0.26	-13.88	0.0	0.0
119	83	58.21	2.49	8.01e-04	-1.62	0.0	29.37	-156.74	-6.75	14.07	2.49	58.21
		0.0	0.0	9.86e-04	0.0	36.9	28.91	-158.36	-6.75	14.07	0.0	0.0
119	102	56.24	0.0	8.05e-04	-1.62	0.0	-43.29	-151.41	14.59	-19.73	-5.39	56.24
		0.0	-5.39	-1.62e-03	0.0	36.9	-43.75	-153.03	14.59	-19.73	0.0	0.0
119	103	55.27	7.98	7.98e-04	-1.62	0.0	-60.80	-148.78	-21.59	19.92	7.98	55.27
		0.0	0.0	1.67e-03	0.0	36.9	-61.25	-150.40	-21.59	19.92	0.0	0.0
119	116	57.45	1.70	8.13e-04	-1.62	0.0	-21.73	-154.69	-4.59	7.68	1.70	57.45
		0.0	0.0	6.20e-04	0.0	36.9	-22.18	-156.30	-4.59	7.68	0.0	0.0
119	117	53.45	0.66	7.85e-04	-1.62	0.0	-93.14	-143.87	-1.77	-7.24	0.66	53.45
		0.0	0.0	-4.58e-04	0.0	36.9	-93.59	-145.49	-1.77	-7.24	0.0	0.0
119	120	58.05	1.93	8.17e-04	-1.62	0.0	-10.95	-156.32	-5.23	7.43	1.93	58.05
		0.0	0.0	5.07e-04	0.0	36.9	-11.41	-157.94	-5.23	7.43	0.0	0.0
119	140	63.74	4.44	9.12e-04	-1.62	0.0	-34.50	-171.70	-12.00	12.78	4.44	63.74
		0.0	0.0	8.94e-04	0.0	36.9	-34.96	-173.32	-12.00	12.78	0.0	0.0

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
119	157	55.75	1.00	8.01e-04	-1.62	0.0	-52.04	-150.10	-2.70	0.08	1.00	55.75
		0.0	0.0	2.01e-05	0.0	36.9	-52.50	-151.71	-2.70	0.08	0.0	0.0
119	158	55.75	1.29	8.01e-04	-1.62	0.0	-52.04	-150.10	-3.50	0.09	1.29	55.75
		0.0	0.0	2.49e-05	0.0	36.9	-52.50	-151.71	-3.50	0.09	0.0	0.0
120	1	34.99	0.0	-4.80e-04	-2.10	0.0	-119.04	95.77	-13.24	0.48	0.0	0.0
		0.0	-4.89	3.60e-06	0.0	36.9	-118.44	93.67	-13.24	0.48	-4.89	34.99
120	3	35.01	0.0	-4.80e-04	-2.10	0.0	-118.86	95.82	-22.21	0.60	0.0	0.0
		0.0	-8.21	1.18e-05	0.0	36.9	-118.27	93.72	-22.21	0.60	-8.21	35.01
120	7	26.93	0.0	-3.69e-04	-1.62	0.0	-91.49	73.69	-19.03	0.49	0.0	0.0
		0.0	-7.03	1.16e-05	0.0	36.9	-91.03	72.07	-19.03	0.49	-7.03	26.93
120	9	46.36	0.0	-6.26e-04	-2.10	0.0	-155.80	126.53	-13.19	0.56	0.0	0.0
		0.0	-4.87	2.47e-06	0.0	36.9	-155.20	124.43	-13.19	0.56	-4.87	46.36
120	11	46.37	0.0	-6.26e-04	-2.10	0.0	-155.68	126.57	-19.47	0.65	0.0	0.0
		0.0	-7.20	8.18e-06	0.0	36.9	-155.08	124.46	-19.47	0.65	-7.20	46.37
120	15	26.91	0.0	-3.69e-04	-1.62	0.0	-91.61	73.66	-10.13	0.37	0.0	0.0
		0.0	-3.74	3.04e-06	0.0	36.9	-91.15	72.04	-10.13	0.37	-3.74	26.91
120	17	26.93	0.0	-3.69e-04	-1.62	0.0	-91.49	73.69	-16.11	0.45	0.0	0.0
		0.0	-5.95	8.53e-06	0.0	36.9	-91.03	72.07	-16.11	0.45	-5.95	26.93
120	19	34.49	0.0	-4.66e-04	-1.62	0.0	-116.12	94.17	-10.10	0.42	0.0	0.0
		0.0	-3.73	2.26e-06	0.0	36.9	-115.66	92.55	-10.10	0.42	-3.73	34.49
120	21	34.50	0.0	-4.67e-04	-1.62	0.0	-116.03	94.19	-14.29	0.48	0.0	0.0
		0.0	-5.28	6.09e-06	0.0	36.9	-115.58	92.57	-14.29	0.48	-5.28	34.50
120	22	26.91	0.0	-3.69e-04	-1.62	0.0	-91.61	73.66	-10.13	0.37	0.0	0.0
		0.0	-3.74	3.04e-06	0.0	36.9	-91.15	72.04	-10.13	0.37	-3.74	26.91
120	23	26.92	0.0	-3.69e-04	-1.62	0.0	-91.53	73.68	-14.32	0.43	0.0	0.0
		0.0	-5.29	6.89e-06	0.0	36.9	-91.07	72.06	-14.32	0.43	-5.29	26.92
120	24	28.43	0.0	-3.89e-04	-1.62	0.0	-96.51	77.76	-10.12	0.38	0.0	0.0
		0.0	-3.74	2.88e-06	0.0	36.9	-96.05	76.14	-10.12	0.38	-3.74	28.43
120	26	28.44	0.0	-3.89e-04	-1.62	0.0	-96.44	77.78	-13.71	0.43	0.0	0.0
		0.0	-5.07	6.18e-06	0.0	36.9	-95.98	76.16	-13.71	0.43	-5.07	28.44
120	27	26.91	0.0	-3.69e-04	-1.62	0.0	-91.61	73.66	-10.13	0.37	0.0	0.0
		0.0	-3.74	3.04e-06	0.0	36.9	-91.15	72.04	-10.13	0.37	-3.74	26.91
120	28	26.92	0.0	-3.69e-04	-1.62	0.0	-91.54	73.68	-13.72	0.42	0.0	0.0
		0.0	-5.07	6.34e-06	0.0	36.9	-91.08	72.06	-13.72	0.42	-5.07	26.92
120	32	26.74	0.0	-3.72e-04	-1.62	0.0	-114.34	73.18	-101.05	38.54	0.0	0.0
		0.0	-37.33	3.40e-03	0.0	36.9	-113.89	71.56	-101.05	38.54	-37.33	26.74
120	33	27.11	27.20	-3.67e-04	-1.62	0.0	-68.73	74.18	73.61	-37.71	0.0	0.0
		0.0	0.0	-3.39e-03	0.0	36.9	-68.28	72.56	73.61	-37.71	27.20	27.11
120	67	24.01	0.0	-3.43e-04	-1.62	0.0	-117.26	65.80	-4.60	-13.52	0.0	0.0
		0.0	-1.70	-8.05e-04	0.0	36.9	-116.81	64.18	-4.60	-13.52	-1.70	24.01
120	88	24.82	0.0	-3.63e-04	-1.62	0.0	-157.19	67.99	-51.06	10.86	0.0	0.0
		0.0	-18.86	9.89e-04	0.0	36.9	-156.74	66.38	-51.06	10.86	-18.86	24.82
120	89	29.02	8.73	-3.76e-04	-1.62	0.0	-25.88	79.36	23.62	-10.03	0.0	0.0
		0.0	0.0	-9.76e-04	0.0	36.9	-25.42	77.74	23.62	-10.03	8.73	29.02
120	94	26.10	0.0	-3.62e-04	-1.62	0.0	-100.79	71.45	-58.72	20.23	0.0	0.0
		0.0	-21.70	1.72e-03	0.0	36.9	-100.33	69.84	-58.72	20.23	-21.70	26.10
120	95	27.74	11.56	-3.76e-04	-1.62	0.0	-82.29	75.90	31.28	-19.40	0.0	0.0
		0.0	0.0	-1.71e-03	0.0	36.9	-81.83	74.28	31.28	-19.40	11.56	27.74
120	112	26.09	0.0	-3.64e-04	-1.62	0.0	-108.44	71.42	-9.95	-6.87	0.0	0.0
		0.0	-3.68	-3.94e-04	0.0	36.9	-107.98	69.80	-9.95	-6.87	-3.68	26.09
120	122	25.06	0.0	-3.57e-04	-1.62	0.0	-123.96	68.63	-32.71	5.81	0.0	0.0
		0.0	-12.08	4.99e-04	0.0	36.9	-123.51	67.01	-32.71	5.81	-12.08	25.06
120	123	28.79	1.95	-3.81e-04	-1.62	0.0	-59.11	78.73	5.27	-4.98	0.0	0.0
		0.0	0.0	-4.86e-04	0.0	36.9	-58.66	77.11	5.27	-4.98	1.95	28.79
120	138	32.77	3.87	-4.33e-04	-1.62	0.0	-90.06	89.50	10.48	-10.63	0.0	0.0
		0.0	0.0	-1.03e-03	0.0	36.9	-89.60	87.88	10.48	-10.63	3.87	32.77
120	157	26.91	0.0	-3.69e-04	-1.62	0.0	-91.61	73.66	-10.13	0.37	0.0	0.0
		0.0	-3.74	3.04e-06	0.0	36.9	-91.15	72.04	-10.13	0.37	-3.74	26.91
120	158	26.92	0.0	-3.69e-04	-1.62	0.0	-91.54	73.68	-13.72	0.42	0.0	0.0
		0.0	-5.07	6.34e-06	0.0	36.9	-91.08	72.06	-13.72	0.42	-5.07	26.92
121	5	161.01	-1.29	7.17e-05	-6.81	0.0	-65.63	18.54	4.00e-06	-0.37	-1.29	142.08
		142.08	-1.29	9.75e-05	0.0	125.1	-67.55	11.73	4.00e-06	-0.37	-1.29	161.01
121	7	161.24	-1.73	7.18e-05	-6.81	0.0	-65.45	18.49	5.46e-06	-0.49	-1.73	142.37
		142.37	-1.73	1.47e-04	0.0	125.1	-67.37	11.68	5.46e-06	-0.49	-1.73	161.24
121	9	273.17	-1.98	1.21e-04	-8.85	0.0	-111.19	31.41	6.20e-06	-0.56	-1.98	239.42
		239.42	-1.98	1.43e-04	0.0	125.1	-113.69	22.56	6.20e-06	-0.56	-1.98	273.17
121	11	273.33	-2.29	1.21e-04	-8.85	0.0	-111.06	31.37	7.23e-06	-0.65	-2.29	239.62
		239.62	-2.29	1.77e-04	0.0	125.1	-113.56	22.52	7.23e-06	-0.65	-2.29	273.33
121	15	161.08	-1.30	7.18e-05	-6.81	0.0	-65.57	18.52	4.04e-06	-0.37	-1.30	142.17
		142.17	-1.30	9.93e-05	0.0	125.1	-67.49	11.71	4.04e-06	-0.37	-1.30	161.08
121	17	161.23	-1.59	7.18e-05	-6.81	0.0	-65.46	18.49	5.01e-06	-0.45	-1.59	142.36
		142.36	-1.59	1.32e-04	0.0	125.1	-67.38	11.68	5.01e-06	-0.45	-1.59	161.23

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
121	19	203.54	-1.49	9.02e-05	-6.81	0.0	-82.90	23.42	4.65e-06	-0.42	-1.49	178.51
		178.51	-1.49	1.07e-04	0.0	125.1	-84.83	16.61	4.65e-06	-0.42	-1.49	203.54
121	21	203.65	-1.69	9.03e-05	-6.81	0.0	-82.82	23.39	5.33e-06	-0.48	-1.69	178.64
		178.64	-1.69	1.30e-04	0.0	125.1	-84.75	16.59	5.33e-06	-0.48	-1.69	203.65
121	22	161.08	-1.30	7.18e-05	-6.81	0.0	-65.57	18.52	4.04e-06	-0.37	-1.30	142.17
		142.17	-1.30	9.93e-05	0.0	125.1	-67.49	11.71	4.04e-06	-0.37	-1.30	161.08
121	23	161.19	-1.51	7.18e-05	-6.81	0.0	-65.49	18.50	4.72e-06	-0.43	-1.51	142.31
		142.31	-1.51	1.22e-04	0.0	125.1	-67.41	11.69	4.72e-06	-0.43	-1.51	161.19
121	24	169.57	-1.34	7.55e-05	-6.81	0.0	-69.04	19.50	4.16e-06	-0.38	-1.34	149.44
		149.44	-1.34	1.01e-04	0.0	125.1	-70.96	12.69	4.16e-06	-0.38	-1.34	169.57
121	26	169.66	-1.51	7.55e-05	-6.81	0.0	-68.97	19.48	4.75e-06	-0.43	-1.51	149.55
		149.55	-1.51	1.21e-04	0.0	125.1	-70.89	12.67	4.75e-06	-0.43	-1.51	169.66
121	27	161.08	-1.30	7.18e-05	-6.81	0.0	-65.57	18.52	4.04e-06	-0.37	-1.30	142.17
		142.17	-1.30	9.93e-05	0.0	125.1	-67.49	11.71	4.04e-06	-0.37	-1.30	161.08
121	28	161.17	-1.48	7.18e-05	-6.81	0.0	-65.50	18.50	4.62e-06	-0.42	-1.48	142.29
		142.29	-1.48	1.19e-04	0.0	125.1	-67.42	11.69	4.62e-06	-0.42	-1.48	161.17
121	48	163.59	-140.59	6.86e-05	-6.81	0.0	-75.61	22.53	-3.64	-39.90	-140.59	140.30
		140.30	-143.59	-4.93e-03	0.0	125.1	-77.53	15.73	-3.64	-39.90	-143.59	163.59
121	49	158.75	140.64	7.50e-05	-6.81	0.0	-55.39	14.47	3.64	39.07	137.63	144.28
		144.28	137.63	5.16e-03	0.0	125.1	-57.32	7.66	3.64	39.07	140.64	158.75
121	97	154.08	-70.38	7.25e-05	-6.81	0.0	-70.01	18.46	3.17	-20.94	-73.87	135.49
		135.49	-73.87	-3.07e-03	0.0	125.1	-71.93	11.66	3.17	-20.94	-70.38	154.08
121	98	156.78	-71.28	6.51e-05	-6.81	0.0	-68.69	20.62	2.56	-21.44	-73.72	135.49
		135.49	-73.72	-2.84e-03	0.0	125.1	-70.61	13.82	2.56	-21.44	-71.28	156.78
121	100	168.27	70.91	7.11e-05	-6.81	0.0	-60.99	18.54	-3.17	20.10	70.91	149.09
		149.09	67.42	3.31e-03	0.0	125.1	-62.92	11.73	-3.17	20.10	67.42	168.27
121	102	156.25	-73.86	6.73e-05	-6.81	0.0	-68.91	20.25	-1.97	-20.97	-73.86	135.49
		135.49	-75.48	-2.49e-03	0.0	125.1	-70.83	13.45	-1.97	-20.97	-75.48	156.25
121	103	166.09	72.53	7.63e-05	-6.81	0.0	-62.10	16.75	1.97	20.13	70.90	149.09
		149.09	70.90	2.72e-03	0.0	125.1	-64.02	9.94	1.97	20.13	72.53	166.09
121	134	195.27	-41.02	9.47e-05	-6.81	0.0	-80.68	19.46	2.22	-12.03	-43.68	175.45
		175.45	-43.68	-1.87e-03	0.0	125.1	-82.60	12.65	2.22	-12.03	-41.02	195.27
121	135	120.43	-41.89	4.54e-05	-6.81	0.0	-54.77	18.75	1.02	-12.73	-42.60	101.26
		101.26	-42.60	-1.45e-03	0.0	125.1	-56.69	11.94	1.02	-12.73	-41.89	120.43
121	139	127.08	40.72	4.89e-05	-6.81	0.0	-50.33	17.54	-2.22	11.19	40.72	109.13
		109.13	38.06	2.11e-03	0.0	125.1	-52.25	10.74	-2.22	11.19	38.06	127.08
121	140	206.93	39.91	8.45e-05	-6.81	0.0	-73.78	22.27	-2.14	10.96	39.91	183.32
		183.32	37.28	2.12e-03	0.0	125.1	-75.70	15.46	-2.14	10.96	37.28	206.93
121	157	161.08	-1.30	7.18e-05	-6.81	0.0	-65.57	18.52	4.04e-06	-0.37	-1.30	142.17
		142.17	-1.30	9.93e-05	0.0	125.1	-67.49	11.71	4.04e-06	-0.37	-1.30	161.08
121	158	161.17	-1.48	7.18e-05	-6.81	0.0	-65.50	18.50	4.62e-06	-0.42	-1.48	142.29
		142.29	-1.48	1.19e-04	0.0	125.1	-67.42	11.69	4.62e-06	-0.42	-1.48	161.17
122	5	160.68	-1.08	-3.13e-05	-1.32	0.0	-74.08	11.37	-0.90	0.37	-1.08	158.07
		158.07	-1.29	-1.47e-05	0.0	24.3	-73.70	10.05	-0.90	0.37	-1.29	160.68
122	7	160.91	-1.42	-3.14e-05	-1.32	0.0	-73.90	11.42	-1.28	0.49	-1.42	158.29
		158.29	-1.73	-2.28e-05	0.0	24.3	-73.53	10.10	-1.28	0.49	-1.73	160.91
122	9	272.56	-1.65	-5.30e-05	-1.72	0.0	-125.85	20.51	-1.34	0.56	-1.65	267.79
		267.79	-1.98	-2.12e-05	0.0	24.3	-125.37	18.79	-1.34	0.56	-1.98	272.56
122	11	272.72	-1.90	-5.30e-05	-1.72	0.0	-125.73	20.54	-1.61	0.65	-1.90	267.94
		267.94	-2.29	-2.69e-05	0.0	24.3	-125.24	18.82	-1.61	0.65	-2.29	272.72
122	15	160.75	-1.08	-3.14e-05	-1.32	0.0	-74.02	11.39	-0.91	0.37	-1.08	158.14
		158.14	-1.30	-1.50e-05	0.0	24.3	-73.65	10.07	-0.91	0.37	-1.30	160.75
122	17	160.90	-1.31	-3.14e-05	-1.32	0.0	-73.90	11.42	-1.16	0.45	-1.31	158.29
		158.29	-1.59	-2.04e-05	0.0	24.3	-73.53	10.10	-1.16	0.45	-1.59	160.90
122	19	203.09	-1.24	-3.95e-05	-1.32	0.0	-93.81	15.18	-1.01	0.42	-1.24	199.57
		199.57	-1.49	-1.60e-05	0.0	24.3	-93.43	13.86	-1.01	0.42	-1.49	203.09
122	21	203.20	-1.40	-3.95e-05	-1.32	0.0	-93.72	15.20	-1.19	0.48	-1.40	199.67
		199.67	-1.69	-1.98e-05	0.0	24.3	-93.35	13.88	-1.19	0.48	-1.69	203.20
122	22	160.75	-1.08	-3.14e-05	-1.32	0.0	-74.02	11.39	-0.91	0.37	-1.08	158.14
		158.14	-1.30	-1.50e-05	0.0	24.3	-73.65	10.07	-0.91	0.37	-1.30	160.75
122	23	160.86	-1.24	-3.14e-05	-1.32	0.0	-73.94	11.41	-1.08	0.43	-1.24	158.24
		158.24	-1.51	-1.88e-05	0.0	24.3	-73.57	10.09	-1.08	0.43	-1.51	160.86
122	24	169.22	-1.11	-3.30e-05	-1.32	0.0	-77.98	12.15	-0.93	0.38	-1.11	166.43
		166.43	-1.34	-1.52e-05	0.0	24.3	-77.60	10.83	-0.93	0.38	-1.34	169.22
122	26	169.31	-1.25	-3.30e-05	-1.32	0.0	-77.91	12.17	-1.08	0.43	-1.25	166.51
		166.51	-1.51	-1.85e-05	0.0	24.3	-77.53	10.85	-1.08	0.43	-1.51	169.31
122	27	160.75	-1.08	-3.14e-05	-1.32	0.0	-74.02	11.39	-0.91	0.37	-1.08	158.14
		158.14	-1.30	-1.50e-05	0.0	24.3	-73.65	10.07	-0.91	0.37	-1.30	160.75
122	28	160.84	-1.22	-3.14e-05	-1.32	0.0	-73.95	11.41	-1.06	0.42	-1.22	158.23
		158.23	-1.48	-1.83e-05	0.0	24.3	-73.58	10.09	-1.06	0.42	-1.48	160.84
122	30	163.26	-138.32	-3.10e-05	-1.32	0.0	-81.85	10.19	-21.89	39.90	-138.32	160.93
		160.93	-143.59	1.41e-03	0.0	24.3	-81.48	8.87	-21.89	39.90	-143.59	163.26

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
122	35	158.42	140.64	-3.18e-05	-1.32	0.0	-66.05	12.63	19.78	-39.07	135.88	155.53
		155.53	135.88	-1.45e-03	0.0	24.3	-65.68	11.31	19.78	-39.07	140.64	158.42
122	88	161.16	-36.69	-3.68e-05	-1.32	0.0	-100.23	14.30	-8.90	10.86	-36.69	157.85
		157.85	-38.81	5.90e-04	0.0	24.3	-99.85	12.97	-8.90	10.86	-38.81	161.16
122	89	160.52	35.86	-2.60e-05	-1.32	0.0	-47.67	8.52	6.78	-10.03	34.25	158.61
		158.61	34.25	-6.26e-04	0.0	24.3	-47.30	7.20	6.78	-10.03	35.86	160.52
122	93	155.91	-72.61	-3.00e-05	-1.32	0.0	-75.85	10.08	-11.90	20.97	-72.61	153.61
		153.61	-75.48	7.20e-04	0.0	24.3	-75.48	8.75	-11.90	20.97	-75.48	155.91
122	96	165.77	72.53	-3.28e-05	-1.32	0.0	-72.05	12.74	9.79	-20.13	70.17	162.85
		162.85	70.17	-7.57e-04	0.0	24.3	-71.68	11.42	9.79	-20.13	72.53	165.77
122	106	153.74	-67.28	-3.08e-05	-1.32	0.0	-81.16	10.66	-13.01	20.94	-67.28	151.31
		151.31	-70.38	8.21e-04	0.0	24.3	-80.79	9.33	-13.01	20.94	-70.38	153.74
122	107	167.94	67.42	-3.20e-05	-1.32	0.0	-66.74	12.16	10.90	-20.10	64.83	165.15
		165.15	64.83	-8.58e-04	0.0	24.3	-66.37	10.84	10.90	-20.10	67.42	167.94
122	122	154.63	-19.56	-3.30e-05	-1.32	0.0	-85.86	12.25	-5.14	5.81	-19.56	151.81
		151.81	-20.79	3.00e-04	0.0	24.3	-85.49	10.93	-5.14	5.81	-20.79	154.63
122	123	167.05	17.83	-2.97e-05	-1.32	0.0	-62.04	10.56	3.02	-4.98	17.12	164.65
		164.65	17.12	-3.37e-04	0.0	24.3	-61.66	9.24	3.02	-4.98	17.83	167.05
122	151	115.03	-38.34	-2.41e-05	-1.32	0.0	-68.61	6.97	-7.83	11.80	-38.34	113.48
		113.48	-40.23	4.97e-04	0.0	24.3	-68.23	5.65	-7.83	11.80	-40.23	115.03
122	154	206.65	37.28	-3.86e-05	-1.32	0.0	-79.29	15.84	5.72	-10.96	35.90	202.98
		202.98	35.90	-5.34e-04	0.0	24.3	-78.92	14.52	5.72	-10.96	37.28	206.65
122	157	160.75	-1.08	-3.14e-05	-1.32	0.0	-74.02	11.39	-0.91	0.37	-1.08	158.14
		158.14	-1.30	-1.50e-05	0.0	24.3	-73.65	10.07	-0.91	0.37	-1.30	160.75
122	158	160.84	-1.22	-3.14e-05	-1.32	0.0	-73.95	11.41	-1.06	0.42	-1.22	158.23
		158.23	-1.48	-1.83e-05	0.0	24.3	-73.58	10.09	-1.06	0.42	-1.48	160.84
123	3	205.87	0.58	4.84e-04	-9.54	0.0	-96.00	-14.87	1.57	-0.60	-1.76	205.87
		176.53	-1.76	1.45e-04	0.0	149.4	-98.69	-24.41	1.57	-0.60	0.58	176.53
123	5	158.07	0.26	3.72e-04	-7.34	0.0	-74.08	-11.37	0.90	-0.37	-1.08	158.07
		135.60	-1.08	7.35e-05	0.0	149.4	-76.15	-18.71	0.90	-0.37	0.26	135.60
123	7	158.29	0.49	3.72e-04	-7.34	0.0	-73.90	-11.42	1.28	-0.49	-1.42	158.29
		135.75	-1.42	1.19e-04	0.0	149.4	-75.97	-18.76	1.28	-0.49	0.49	135.75
123	9	267.79	0.35	6.29e-04	-9.54	0.0	-125.85	-20.51	1.34	-0.56	-1.65	267.79
		230.03	-1.65	1.04e-04	0.0	149.4	-128.55	-30.05	1.34	-0.56	0.35	230.03
123	11	267.94	0.50	6.29e-04	-9.54	0.0	-125.73	-20.54	1.61	-0.65	-1.90	267.94
		230.13	-1.90	1.36e-04	0.0	149.4	-128.42	-30.08	1.61	-0.65	0.50	230.13
123	15	158.14	0.27	3.72e-04	-7.34	0.0	-74.02	-11.39	0.91	-0.37	-1.08	158.14
		135.65	-1.08	7.53e-05	0.0	149.4	-76.09	-18.73	0.91	-0.37	0.27	135.65
123	17	158.29	0.42	3.72e-04	-7.34	0.0	-73.90	-11.42	1.16	-0.45	-1.31	158.29
		135.75	-1.31	1.06e-04	0.0	149.4	-75.98	-18.76	1.16	-0.45	0.42	135.75
123	19	199.57	0.27	4.69e-04	-7.34	0.0	-93.81	-15.18	1.01	-0.42	-1.24	199.57
		171.41	-1.24	7.84e-05	0.0	149.4	-95.88	-22.52	1.01	-0.42	0.27	171.41
123	21	199.67	0.37	4.69e-04	-7.34	0.0	-93.72	-15.20	1.19	-0.48	-1.40	199.67
		171.48	-1.40	9.97e-05	0.0	149.4	-95.80	-22.54	1.19	-0.48	0.37	171.48
123	22	158.14	0.27	3.72e-04	-7.34	0.0	-74.02	-11.39	0.91	-0.37	-1.08	158.14
		135.65	-1.08	7.53e-05	0.0	149.4	-76.09	-18.73	0.91	-0.37	0.27	135.65
123	23	158.24	0.37	3.72e-04	-7.34	0.0	-73.94	-11.41	1.08	-0.43	-1.24	158.24
		135.72	-1.24	9.66e-05	0.0	149.4	-76.01	-18.75	1.08	-0.43	0.37	135.72
123	24	166.43	0.27	3.91e-04	-7.34	0.0	-77.98	-12.15	0.93	-0.38	-1.11	166.43
		142.80	-1.11	7.59e-05	0.0	149.4	-80.05	-19.49	0.93	-0.38	0.27	142.80
123	26	166.51	0.36	3.91e-04	-7.34	0.0	-77.91	-12.17	1.08	-0.43	-1.25	166.51
		142.86	-1.25	9.42e-05	0.0	149.4	-79.98	-19.51	1.08	-0.43	0.36	142.86
123	27	158.14	0.27	3.72e-04	-7.34	0.0	-74.02	-11.39	0.91	-0.37	-1.08	158.14
		135.65	-1.08	7.53e-05	0.0	149.4	-76.09	-18.73	0.91	-0.37	0.27	135.65
123	28	158.23	0.36	3.72e-04	-7.34	0.0	-73.95	-11.41	1.06	-0.42	-1.22	158.23
		135.71	-1.22	9.36e-05	0.0	149.4	-76.02	-18.75	1.06	-0.42	0.36	135.71
123	48	160.93	-102.81	3.74e-04	-7.34	0.0	-81.47	-10.61	24.00	-39.90	-138.32	160.93
		139.51	-138.32	-0.01	0.0	149.4	-83.55	-17.94	24.00	-39.90	-102.81	139.51
123	49	155.53	135.88	3.71e-04	-7.34	0.0	-66.43	-12.21	-21.88	39.07	135.88	155.53
		131.91	103.53	0.01	0.0	149.4	-68.50	-19.55	-21.88	39.07	103.53	131.91
123	78	157.85	-23.06	4.04e-04	-7.34	0.0	-102.94	-13.86	9.28	-10.86	-36.69	157.85
		131.66	-36.69	-4.35e-03	0.0	149.4	-105.01	-21.20	9.28	-10.86	-23.06	131.66
123	83	158.61	34.25	3.41e-04	-7.34	0.0	-44.96	-8.95	-7.16	10.03	34.25	158.61
		139.75	23.77	4.54e-03	0.0	149.4	-47.03	-16.29	-7.16	10.03	23.77	139.75
123	100	165.15	64.83	3.83e-04	-7.34	0.0	-66.29	-12.31	-11.71	20.10	64.83	165.15
		141.32	47.86	6.60e-03	0.0	149.4	-68.36	-19.65	-11.71	20.10	47.86	141.32
123	102	153.61	-53.41	3.59e-04	-7.34	0.0	-75.60	-10.13	13.01	-20.97	-72.61	153.61
		132.94	-72.61	-5.94e-03	0.0	149.4	-77.67	-17.46	13.01	-20.97	-53.41	132.94
123	103	162.85	70.17	3.85e-04	-7.34	0.0	-72.31	-12.69	-10.89	20.13	70.17	162.85
		138.47	54.13	6.13e-03	0.0	149.4	-74.38	-20.03	-10.89	20.13	54.13	138.47
123	117	151.81	-11.76	3.75e-04	-7.34	0.0	-87.28	-11.85	5.33	-5.81	-19.56	151.81
		128.62	-19.56	-2.23e-03	0.0	149.4	-89.35	-19.19	5.33	-5.81	-11.76	128.62

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
123	120	164.65	17.12	3.69e-04	-7.34	0.0	-60.62	-10.97	-3.22	4.98	17.12	164.65
		142.79	12.48	2.42e-03	0.0	149.4	-62.70	-18.31	-3.22	4.98	12.48	142.79
123	133	113.48	-26.50	2.80e-04	-7.34	0.0	-69.09	-5.64	8.27	-11.80	-38.34	113.48
		99.46	-38.34	-3.84e-03	0.0	149.4	-71.16	-12.98	8.27	-11.80	-26.50	99.46
123	140	202.98	35.90	4.65e-04	-7.34	0.0	-78.81	-17.17	-6.15	10.96	35.90	202.98
		171.96	27.22	4.03e-03	0.0	149.4	-80.89	-24.51	-6.15	10.96	27.22	171.96
123	157	158.14	0.27	3.72e-04	-7.34	0.0	-74.02	-11.39	0.91	-0.37	-1.08	158.14
		135.65	-1.08	7.53e-05	0.0	149.4	-76.09	-18.73	0.91	-0.37	0.27	135.65
123	158	158.23	0.36	3.72e-04	-7.34	0.0	-73.95	-11.41	1.06	-0.42	-1.22	158.23
		135.71	-1.22	9.36e-05	0.0	149.4	-76.02	-18.75	1.06	-0.42	0.36	135.71
124	3	205.87	0.58	-4.84e-04	-9.54	0.0	-98.69	24.41	-1.57	0.60	0.58	176.53
		176.53	-1.76	-1.45e-04	0.0	149.4	-96.00	14.87	-1.57	0.60	-1.76	205.87
124	5	158.07	0.26	-3.72e-04	-7.34	0.0	-76.15	18.71	-0.90	0.37	0.26	135.60
		135.60	-1.08	-7.35e-05	0.0	149.4	-74.08	11.37	-0.90	0.37	-1.08	158.07
124	7	158.29	0.49	-3.72e-04	-7.34	0.0	-75.97	18.76	-1.28	0.49	0.49	135.75
		135.75	-1.42	-1.19e-04	0.0	149.4	-73.90	11.42	-1.28	0.49	-1.42	158.29
124	9	267.79	0.35	-6.29e-04	-9.54	0.0	-128.55	30.05	-1.34	0.56	0.35	230.03
		230.03	-1.65	-1.04e-04	0.0	149.4	-125.85	20.51	-1.34	0.56	-1.65	267.79
124	11	267.94	0.50	-6.29e-04	-9.54	0.0	-128.42	30.08	-1.61	0.65	0.50	230.13
		230.13	-1.90	-1.36e-04	0.0	149.4	-125.73	20.54	-1.61	0.65	-1.90	267.94
124	15	158.14	0.27	-3.72e-04	-7.34	0.0	-76.09	18.73	-0.91	0.37	0.27	135.65
		135.65	-1.08	-7.53e-05	0.0	149.4	-74.02	11.39	-0.91	0.37	-1.08	158.14
124	17	158.29	0.42	-3.72e-04	-7.34	0.0	-75.98	18.76	-1.16	0.45	0.42	135.75
		135.75	-1.31	-1.06e-04	0.0	149.4	-73.90	11.42	-1.16	0.45	-1.31	158.29
124	19	199.57	0.27	-4.69e-04	-7.34	0.0	-95.88	22.52	-1.01	0.42	0.27	171.41
		171.41	-1.24	-7.84e-05	0.0	149.4	-93.81	15.18	-1.01	0.42	-1.24	199.57
124	21	199.67	0.37	-4.69e-04	-7.34	0.0	-95.80	22.54	-1.19	0.48	0.37	171.48
		171.48	-1.40	-9.97e-05	0.0	149.4	-93.72	15.20	-1.19	0.48	-1.40	199.67
124	22	158.14	0.27	-3.72e-04	-7.34	0.0	-76.09	18.73	-0.91	0.37	0.27	135.65
		135.65	-1.08	-7.53e-05	0.0	149.4	-74.02	11.39	-0.91	0.37	-1.08	158.14
124	23	158.24	0.37	-3.72e-04	-7.34	0.0	-76.01	18.75	-1.08	0.43	0.37	135.72
		135.72	-1.24	-9.66e-05	0.0	149.4	-73.94	11.41	-1.08	0.43	-1.24	158.24
124	24	166.43	0.27	-3.91e-04	-7.34	0.0	-80.05	19.49	-0.93	0.38	0.27	142.80
		142.80	-1.11	-7.59e-05	0.0	149.4	-77.98	12.15	-0.93	0.38	-1.11	166.43
124	26	166.51	0.36	-3.91e-04	-7.34	0.0	-79.98	19.51	-1.08	0.43	0.36	142.86
		142.86	-1.25	-9.42e-05	0.0	149.4	-77.91	12.17	-1.08	0.43	-1.25	166.51
124	27	158.14	0.27	-3.72e-04	-7.34	0.0	-76.09	18.73	-0.91	0.37	0.27	135.65
		135.65	-1.08	-7.53e-05	0.0	149.4	-74.02	11.39	-0.91	0.37	-1.08	158.14
124	28	158.23	0.36	-3.72e-04	-7.34	0.0	-76.02	18.75	-1.06	0.42	0.36	135.71
		135.71	-1.22	-9.36e-05	0.0	149.4	-73.95	11.41	-1.06	0.42	-1.22	158.23
124	30	160.93	-102.81	-3.74e-04	-7.34	0.0	-83.55	17.94	-24.00	39.90	-102.81	139.51
		139.51	-138.32	0.01	0.0	149.4	-81.47	10.61	-24.00	39.90	-138.32	160.93
124	35	155.53	135.88	-3.71e-04	-7.34	0.0	-68.50	19.55	21.88	-39.07	103.53	131.91
		131.91	103.53	-0.01	0.0	149.4	-66.43	12.21	21.88	-39.07	135.88	155.53
124	88	157.85	-23.06	-4.04e-04	-7.34	0.0	-105.01	21.20	-9.28	10.86	-23.06	131.66
		131.66	-36.69	4.35e-03	0.0	149.4	-102.94	13.86	-9.28	10.86	-36.69	157.85
124	89	158.61	34.25	-3.41e-04	-7.34	0.0	-47.03	16.29	7.16	-10.03	23.77	139.75
		139.75	23.77	-4.54e-03	0.0	149.4	-44.96	8.95	7.16	-10.03	34.25	158.61
124	93	153.61	-53.41	-3.59e-04	-7.34	0.0	-77.67	17.46	-13.01	20.97	-53.41	132.94
		132.94	-72.61	5.94e-03	0.0	149.4	-75.60	10.13	-13.01	20.97	-72.61	153.61
124	96	162.85	70.17	-3.85e-04	-7.34	0.0	-74.38	20.03	10.89	-20.13	54.13	138.47
		138.47	54.13	-6.13e-03	0.0	149.4	-72.31	12.69	10.89	-20.13	70.17	162.85
124	107	165.15	64.83	-3.83e-04	-7.34	0.0	-68.36	19.65	11.71	-20.10	47.86	141.32
		141.32	47.86	-6.60e-03	0.0	149.4	-66.29	12.31	11.71	-20.10	64.83	165.15
124	122	151.81	-11.76	-3.75e-04	-7.34	0.0	-89.35	19.19	-5.33	5.81	-11.76	128.62
		128.62	-19.56	2.23e-03	0.0	149.4	-87.28	11.85	-5.33	5.81	-19.56	151.81
124	123	164.65	17.12	-3.69e-04	-7.34	0.0	-62.70	18.31	3.22	-4.98	12.48	142.79
		142.79	12.48	-2.42e-03	0.0	149.4	-60.62	10.97	3.22	-4.98	17.12	164.65
124	151	113.48	-26.50	-2.80e-04	-7.34	0.0	-71.16	12.98	-8.27	11.80	-26.50	99.45
		99.45	-38.34	3.84e-03	0.0	149.4	-69.09	5.64	-8.27	11.80	-38.34	113.48
124	154	202.98	35.90	-4.65e-04	-7.34	0.0	-80.89	24.51	6.15	-10.96	27.22	171.96
		171.96	27.22	-4.03e-03	0.0	149.4	-78.81	17.17	6.15	-10.96	35.90	202.98
124	157	158.14	0.27	-3.72e-04	-7.34	0.0	-76.09	18.73	-0.91	0.37	0.27	135.65
		135.65	-1.08	-7.53e-05	0.0	149.4	-74.02	11.39	-0.91	0.37	-1.08	158.14
124	158	158.23	0.36	-3.72e-04	-7.34	0.0	-76.02	18.75	-1.06	0.42	0.36	135.71
		135.71	-1.22	-9.36e-05	0.0	149.4	-73.95	11.41	-1.06	0.42	-1.22	158.23
125	4	203.35	1.26	2.54e-04	-3.01	0.0	-113.53	-27.25	1.64	-0.64	0.58	203.35
		191.43	0.58	4.05e-05	0.0	41.5	-114.38	-30.26	1.64	-0.64	1.26	191.43
125	5	135.60	0.64	1.69e-04	-2.31	0.0	-76.15	-18.71	0.90	-0.37	0.26	135.60
		127.36	0.26	1.98e-05	0.0	41.5	-76.80	-21.03	0.90	-0.37	0.64	127.36
125	7	135.75	1.02	1.70e-04	-2.31	0.0	-75.97	-18.76	1.28	-0.49	0.49	135.75
		127.49	0.49	3.30e-05	0.0	41.5	-76.63	-21.08	1.28	-0.49	1.02	127.49

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
125	9	230.03	0.91	2.87e-04	-3.01	0.0	-128.55	-30.05	1.34	-0.56	0.35	230.03
		216.94	0.35	2.78e-05	0.0	41.5	-129.40	-33.06	1.34	-0.56	0.91	216.94
125	11	230.13	1.17	2.87e-04	-3.01	0.0	-128.42	-30.08	1.61	-0.65	0.50	230.13
		217.03	0.50	3.70e-05	0.0	41.5	-129.27	-33.09	1.61	-0.65	1.17	217.03
125	12	189.24	0.69	2.36e-04	-2.31	0.0	-105.83	-24.40	1.05	-0.44	0.26	189.24
		178.64	0.26	2.06e-05	0.0	41.5	-106.48	-26.71	1.05	-0.44	0.69	178.64
125	15	135.65	0.65	1.70e-04	-2.31	0.0	-76.09	-18.73	0.91	-0.37	0.27	135.65
		127.40	0.27	2.03e-05	0.0	41.5	-76.75	-21.04	0.91	-0.37	0.65	127.40
125	17	135.75	0.90	1.70e-04	-2.31	0.0	-75.98	-18.76	1.16	-0.45	0.42	135.75
		127.49	0.42	2.91e-05	0.0	41.5	-76.63	-21.08	1.16	-0.45	0.90	127.49
125	18	153.62	0.92	1.92e-04	-2.31	0.0	-85.87	-20.66	1.21	-0.48	0.42	153.62
		144.58	0.42	2.94e-05	0.0	41.5	-86.52	-22.97	1.21	-0.48	0.92	144.58
125	19	171.41	0.68	2.14e-04	-2.31	0.0	-95.88	-22.52	1.01	-0.42	0.27	171.41
		161.59	0.27	2.09e-05	0.0	41.5	-96.53	-24.83	1.01	-0.42	0.68	161.59
125	21	171.48	0.86	2.14e-04	-2.31	0.0	-95.80	-22.54	1.19	-0.48	0.37	171.48
		161.65	0.37	2.70e-05	0.0	41.5	-96.45	-24.86	1.19	-0.48	0.86	161.65
125	22	135.65	0.65	1.70e-04	-2.31	0.0	-76.09	-18.73	0.91	-0.37	0.27	135.65
		127.40	0.27	2.03e-05	0.0	41.5	-76.75	-21.04	0.91	-0.37	0.65	127.40
125	23	135.72	0.82	1.70e-04	-2.31	0.0	-76.01	-18.75	1.08	-0.43	0.37	135.72
		127.46	0.37	2.65e-05	0.0	41.5	-76.67	-21.07	1.08	-0.43	0.82	127.46
125	24	142.80	0.65	1.78e-04	-2.31	0.0	-80.05	-19.49	0.93	-0.38	0.27	142.80
		134.24	0.27	2.04e-05	0.0	41.5	-80.70	-21.80	0.93	-0.38	0.65	134.24
125	26	142.86	0.81	1.79e-04	-2.31	0.0	-79.98	-19.51	1.08	-0.43	0.36	142.86
		134.29	0.36	2.57e-05	0.0	41.5	-80.63	-21.82	1.08	-0.43	0.81	134.29
125	27	135.65	0.65	1.70e-04	-2.31	0.0	-76.09	-18.73	0.91	-0.37	0.27	135.65
		127.40	0.27	2.03e-05	0.0	41.5	-76.75	-21.04	0.91	-0.37	0.65	127.40
125	28	135.71	0.80	1.70e-04	-2.31	0.0	-76.02	-18.75	1.06	-0.42	0.36	135.71
		127.45	0.36	2.56e-05	0.0	41.5	-76.68	-21.06	1.06	-0.42	0.80	127.45
125	47	121.08	-92.54	1.48e-04	-2.31	0.0	-74.56	-14.42	25.54	-39.83	-103.00	121.08
		114.57	-103.00	-3.92e-03	0.0	41.5	-75.21	-16.73	25.54	-39.83	-92.54	114.57
125	50	150.34	103.72	1.91e-04	-2.31	0.0	-77.49	-23.08	-23.42	39.00	103.72	150.34
		140.33	94.14	3.98e-03	0.0	41.5	-78.14	-25.39	-23.42	39.00	94.14	140.33
125	78	131.66	-19.27	1.77e-04	-2.31	0.0	-108.03	-20.65	9.41	-10.86	-23.06	131.66
		122.62	-23.06	-1.37e-03	0.0	41.5	-108.69	-22.97	9.41	-10.86	-19.27	122.62
125	83	139.75	23.77	1.62e-04	-2.31	0.0	-44.01	-16.84	-7.29	10.03	23.77	139.75
		132.28	20.87	1.42e-03	0.0	41.5	-44.67	-19.16	-7.29	10.03	20.87	132.28
125	102	132.94	-47.73	1.65e-04	-2.31	0.0	-77.38	-17.52	13.89	-20.97	-53.41	132.94
		125.18	-53.41	-2.02e-03	0.0	41.5	-78.04	-19.83	13.89	-20.97	-47.73	125.18
125	103	138.47	54.13	1.75e-04	-2.31	0.0	-74.66	-19.97	-11.78	20.13	54.13	138.47
		129.72	49.33	2.07e-03	0.0	41.5	-75.32	-22.29	-11.78	20.13	49.33	129.72
125	117	128.62	-9.58	1.67e-04	-2.31	0.0	-90.92	-18.73	5.40	-5.81	-11.76	128.62
		120.37	-11.76	-7.00e-04	0.0	41.5	-91.57	-21.04	5.40	-5.81	-9.58	120.37
125	120	142.79	12.48	1.72e-04	-2.31	0.0	-61.13	-18.77	-3.28	4.98	12.48	142.79
		134.53	11.17	7.51e-04	0.0	41.5	-61.78	-21.08	-3.28	4.98	11.17	134.53
125	133	99.46	-23.01	1.27e-04	-2.31	0.0	-71.70	-11.71	8.57	-11.80	-26.50	99.46
		94.08	-26.50	-1.24e-03	0.0	41.5	-72.35	-14.03	8.57	-11.80	-23.01	94.08
125	140	171.96	27.22	2.12e-04	-2.31	0.0	-80.35	-25.78	-6.46	10.96	27.22	171.96
		160.82	24.61	1.30e-03	0.0	41.5	-81.00	-28.10	-6.46	10.96	24.61	160.82
125	157	135.65	0.65	1.70e-04	-2.31	0.0	-76.09	-18.73	0.91	-0.37	0.27	135.65
		127.40	0.27	2.03e-05	0.0	41.5	-76.75	-21.04	0.91	-0.37	0.65	127.40
125	158	135.71	0.80	1.70e-04	-2.31	0.0	-76.02	-18.75	1.06	-0.42	0.36	135.71
		127.45	0.36	2.56e-05	0.0	41.5	-76.68	-21.06	1.06	-0.42	0.80	127.45
126	3	164.38	1.23	-8.29e-04	-7.83	0.0	-108.55	59.30	4.39	0.60	-3.50	104.62
		104.62	-3.50	-1.05e-04	0.0	107.9	-106.33	51.47	4.39	0.60	1.23	164.38
126	4	189.73	1.26	-9.54e-04	-7.83	0.0	-125.09	68.17	4.39	0.64	-3.49	120.40
		120.40	-3.49	-1.06e-04	0.0	107.9	-122.88	60.34	4.39	0.64	1.26	189.73
126	5	126.28	0.64	-6.36e-04	-6.02	0.0	-83.73	45.55	2.02	0.37	-1.55	80.38
		80.38	-1.55	-5.24e-05	0.0	107.9	-82.03	39.53	2.02	0.37	0.64	126.28
126	7	126.41	1.02	-6.37e-04	-6.02	0.0	-83.55	45.60	3.74	0.49	-3.02	80.45
		80.45	-3.02	-8.58e-05	0.0	107.9	-81.85	39.58	3.74	0.49	1.02	126.41
126	9	214.95	0.91	-1.08e-03	-7.83	0.0	-141.80	76.99	2.69	0.56	-1.99	136.10
		136.10	-1.99	-7.40e-05	0.0	107.9	-139.59	69.16	2.69	0.56	0.91	214.95
126	11	215.04	1.17	-1.08e-03	-7.83	0.0	-141.68	77.02	3.89	0.65	-3.03	136.15
		136.15	-3.03	-9.73e-05	0.0	107.9	-139.47	69.19	3.89	0.65	1.17	215.04
126	15	126.32	0.65	-6.37e-04	-6.02	0.0	-83.67	45.56	2.04	0.37	-1.56	80.41
		80.41	-1.56	-5.38e-05	0.0	107.9	-81.97	39.54	2.04	0.37	0.65	126.32
126	17	126.40	0.90	-6.37e-04	-6.02	0.0	-83.56	45.60	3.18	0.45	-2.54	80.45
		80.45	-2.54	-7.61e-05	0.0	107.9	-81.86	39.57	3.18	0.45	0.90	126.40
126	18	143.30	0.92	-7.21e-04	-6.02	0.0	-94.58	51.51	3.19	0.48	-2.53	90.97
		90.97	-2.53	-7.69e-05	0.0	107.9	-92.88	45.49	3.19	0.48	0.92	143.30
126	19	160.12	0.68	-8.04e-04	-6.02	0.0	-105.73	57.39	2.05	0.42	-1.53	101.44
		101.44	-1.53	-5.56e-05	0.0	107.9	-104.03	51.37	2.05	0.42	0.68	160.12

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
126	21	160.18	0.86	-8.04e-04	-6.02	0.0	-105.65	57.41	2.85	0.48	-2.22	101.47
		101.47	-2.22	-7.11e-05	0.0	107.9	-103.95	51.39	2.85	0.48	0.86	160.18
126	22	126.32	0.65	-6.37e-04	-6.02	0.0	-83.67	45.56	2.04	0.37	-1.56	80.41
		80.41	-1.56	-5.38e-05	0.0	107.9	-81.97	39.54	2.04	0.37	0.65	126.32
126	23	126.38	0.82	-6.37e-04	-6.02	0.0	-83.59	45.59	2.84	0.43	-2.24	80.44
		80.44	-2.24	-6.94e-05	0.0	107.9	-81.89	39.56	2.84	0.43	0.82	126.38
126	24	133.08	0.65	-6.70e-04	-6.02	0.0	-88.08	47.93	2.04	0.38	-1.55	84.61
		84.61	-1.55	-5.42e-05	0.0	107.9	-86.38	41.91	2.04	0.38	0.65	133.08
126	26	133.13	0.81	-6.70e-04	-6.02	0.0	-88.01	47.95	2.73	0.43	-2.14	84.64
		84.64	-2.14	-6.75e-05	0.0	107.9	-86.31	41.93	2.73	0.43	0.81	133.13
126	27	126.32	0.65	-6.37e-04	-6.02	0.0	-83.67	45.56	2.04	0.37	-1.56	80.41
		80.41	-1.56	-5.38e-05	0.0	107.9	-81.97	39.54	2.04	0.37	0.65	126.32
126	28	126.37	0.80	-6.37e-04	-6.02	0.0	-83.60	45.58	2.73	0.42	-2.14	80.43
		80.43	-2.14	-6.72e-05	0.0	107.9	-81.90	39.56	2.73	0.42	0.80	126.37
126	29	113.39	-61.13	-5.63e-04	-6.02	0.0	-79.29	40.34	-27.45	39.83	-61.13	73.10
		73.10	-92.54	0.01	0.0	107.9	-77.59	34.32	-27.45	39.83	-92.54	113.39
126	36	139.35	94.14	-7.10e-04	-6.02	0.0	-87.92	50.83	32.90	-39.00	56.84	87.77
		87.77	56.84	-0.01	0.0	107.9	-86.21	44.81	32.90	-39.00	94.14	139.35
126	88	121.56	-19.27	-6.50e-04	-6.02	0.0	-130.03	44.70	-1.40	10.86	-21.84	76.59
		76.59	-21.84	3.67e-03	0.0	107.9	-128.33	38.68	-1.40	10.86	-19.27	121.56
126	89	131.18	20.87	-6.24e-04	-6.02	0.0	-37.18	46.47	6.85	-10.03	17.55	84.28
		84.28	17.55	-3.80e-03	0.0	107.9	-35.48	40.45	6.85	-10.03	20.87	131.18
126	93	124.07	-32.97	-6.21e-04	-6.02	0.0	-83.69	44.57	-12.86	20.97	-32.97	79.23
		79.23	-47.73	5.61e-03	0.0	107.9	-81.99	38.54	-12.86	20.97	-47.73	124.07
126	96	128.67	49.33	-6.53e-04	-6.02	0.0	-83.52	46.60	18.31	-20.13	28.68	81.64
		81.64	28.68	-5.74e-03	0.0	107.9	-81.82	40.58	18.31	-20.13	49.33	128.67
126	122	119.28	-9.58	-6.21e-04	-6.02	0.0	-106.01	43.37	0.55	5.81	-12.29	75.72
		75.72	-12.29	1.87e-03	0.0	107.9	-104.30	37.35	0.55	5.81	-9.58	119.28
126	123	133.47	11.17	-6.53e-04	-6.02	0.0	-61.20	47.80	4.90	-4.98	8.00	85.15
		85.15	8.00	-2.00e-03	0.0	107.9	-59.50	41.77	4.90	-4.98	11.17	133.47
126	151	92.81	-18.44	-4.79e-04	-6.02	0.0	-81.89	32.95	-4.85	11.80	-18.44	60.49
		60.49	-23.01	3.37e-03	0.0	107.9	-80.19	26.92	-4.85	11.80	-23.01	92.81
126	154	159.93	24.61	-7.95e-04	-6.02	0.0	-85.31	58.22	10.30	-10.96	14.15	100.38
		100.38	14.15	-3.50e-03	0.0	107.9	-83.61	52.20	10.30	-10.96	24.61	159.93
126	157	126.32	0.65	-6.37e-04	-6.02	0.0	-83.67	45.56	2.04	0.37	-1.56	80.41
		80.41	-1.56	-5.38e-05	0.0	107.9	-81.97	39.54	2.04	0.37	0.65	126.32
126	158	126.37	0.80	-6.37e-04	-6.02	0.0	-83.60	45.58	2.73	0.42	-2.14	80.43
		80.43	-2.14	-6.72e-05	0.0	107.9	-81.90	39.56	2.73	0.42	0.80	126.37
127	3	104.62	-3.50	1.20e-03	-6.10	0.0	-108.55	-59.30	-4.39	-0.60	-3.50	104.62
		37.76	-8.21	4.39e-05	0.0	107.2	-110.27	-65.40	-4.39	-0.60	-8.21	37.76
127	5	80.38	-1.55	9.25e-04	-4.70	0.0	-83.73	-45.55	-2.02	-0.37	-1.55	80.38
		29.02	-3.72	2.50e-05	0.0	107.2	-85.05	-50.24	-2.02	-0.37	-3.72	29.02
127	7	80.45	-3.02	9.26e-04	-4.70	0.0	-83.55	-45.60	-3.74	-0.49	-3.02	80.45
		29.04	-7.03	3.39e-05	0.0	107.2	-84.88	-50.29	-3.74	-0.49	-7.03	29.04
127	9	136.10	-1.99	1.57e-03	-6.10	0.0	-141.80	-76.99	-2.69	-0.56	-1.99	136.10
		50.28	-4.87	3.86e-05	0.0	107.2	-143.53	-83.09	-2.69	-0.56	-4.87	50.28
127	11	136.15	-3.03	1.57e-03	-6.10	0.0	-141.68	-77.02	-3.89	-0.65	-3.03	136.15
		50.29	-7.20	4.41e-05	0.0	107.2	-143.41	-83.13	-3.89	-0.65	-7.20	50.29
127	12	111.94	-1.51	1.29e-03	-4.70	0.0	-116.81	-63.29	-2.04	-0.44	-1.51	111.94
		41.56	-3.70	2.82e-05	0.0	107.2	-118.14	-67.98	-2.04	-0.44	-3.70	41.56
127	15	80.41	-1.56	9.25e-04	-4.70	0.0	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
		29.03	-3.74	2.63e-05	0.0	107.2	-85.00	-50.26	-2.04	-0.37	-3.74	29.03
127	17	80.45	-2.54	9.26e-04	-4.70	0.0	-83.56	-45.60	-3.18	-0.45	-2.54	80.45
		29.04	-5.95	3.19e-05	0.0	107.2	-84.88	-50.29	-3.18	-0.45	-5.95	29.04
127	19	101.44	-1.53	1.17e-03	-4.70	0.0	-105.73	-57.39	-2.05	-0.42	-1.53	101.44
		37.38	-3.73	2.84e-05	0.0	107.2	-107.06	-62.08	-2.05	-0.42	-3.73	37.38
127	21	101.47	-2.22	1.17e-03	-4.70	0.0	-105.65	-57.41	-2.85	-0.48	-2.22	101.47
		37.39	-5.28	3.21e-05	0.0	107.2	-106.97	-62.11	-2.85	-0.48	-5.28	37.39
127	22	80.41	-1.56	9.25e-04	-4.70	0.0	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
		29.03	-3.74	2.63e-05	0.0	107.2	-85.00	-50.26	-2.04	-0.37	-3.74	29.03
127	23	80.44	-2.24	9.25e-04	-4.70	0.0	-83.59	-45.59	-2.84	-0.43	-2.24	80.44
		29.04	-5.29	3.01e-05	0.0	107.2	-84.92	-50.28	-2.84	-0.43	-5.29	29.04
127	24	84.61	-1.55	9.73e-04	-4.70	0.0	-88.08	-47.93	-2.04	-0.38	-1.55	84.61
		30.70	-3.74	2.67e-05	0.0	107.2	-89.41	-52.62	-2.04	-0.38	-3.74	30.70
127	26	84.64	-2.14	9.74e-04	-4.70	0.0	-88.01	-47.95	-2.73	-0.43	-2.14	84.64
		30.71	-5.07	3.00e-05	0.0	107.2	-89.34	-52.64	-2.73	-0.43	-5.07	30.71
127	27	80.41	-1.56	9.25e-04	-4.70	0.0	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
		29.03	-3.74	2.63e-05	0.0	107.2	-85.00	-50.26	-2.04	-0.37	-3.74	29.03
127	28	80.43	-2.14	9.25e-04	-4.70	0.0	-83.60	-45.58	-2.73	-0.42	-2.14	80.43
		29.04	-5.07	2.96e-05	0.0	107.2	-84.93	-50.28	-2.73	-0.42	-5.07	29.04
127	46	80.29	-37.33	9.28e-04	-4.70	0.0	-103.18	-45.64	25.33	-38.54	-64.37	80.29
		28.85	-64.37	-0.01	0.0	107.2	-104.50	-50.34	25.33	-38.54	-37.33	28.85

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
127	51	80.58	60.08	9.23e-04	-4.70	0.0	-64.03	-45.53	-30.78	37.71	60.08	80.58
		29.22	27.20	0.01	0.0	107.2	-65.36	-50.22	-30.78	37.71	27.20	29.22
127	78	76.59	-18.86	9.13e-04	-4.70	0.0	-133.37	-43.96	1.42	-10.86	-21.84	76.59
		26.96	-21.84	-3.51e-03	0.0	107.2	-134.70	-48.65	1.42	-10.86	-18.86	26.96
127	83	84.28	17.55	9.38e-04	-4.70	0.0	-33.83	-47.21	-6.87	10.03	17.55	84.28
		31.11	8.73	3.57e-03	0.0	107.2	-35.16	-51.91	-6.87	10.03	8.73	31.11
127	101	77.77	-21.69	8.98e-04	-4.70	0.0	-91.39	-43.81	11.91	-20.23	-34.41	77.77
		28.26	-34.41	-5.79e-03	0.0	107.2	-92.71	-48.51	11.91	-20.23	-21.69	28.26
127	104	83.10	30.12	9.53e-04	-4.70	0.0	-75.82	-47.36	-17.36	19.40	30.12	83.10
		29.81	11.56	5.85e-03	0.0	107.2	-77.15	-52.05	-17.36	19.40	11.56	29.81
127	117	75.72	-12.08	8.90e-04	-4.70	0.0	-107.75	-42.87	-0.55	-5.81	-12.29	75.72
		27.23	-12.29	-1.78e-03	0.0	107.2	-109.07	-47.56	-0.55	-5.81	-12.08	27.23
127	120	85.15	8.00	9.61e-04	-4.70	0.0	-59.46	-48.30	-4.90	4.98	8.00	85.15
		30.84	1.95	1.84e-03	0.0	107.2	-60.79	-52.99	-4.90	4.98	1.95	30.84
127	121	75.73	-12.62	8.89e-04	-4.70	0.0	-107.60	-42.87	-0.17	-5.64	-13.27	75.73
		27.23	-13.27	-1.91e-03	0.0	107.2	-108.93	-47.57	-0.17	-5.64	-12.62	27.23
127	140	100.38	14.15	1.14e-03	-4.70	0.0	-84.71	-59.17	-10.43	10.96	14.15	100.38
		34.51	2.86	3.28e-03	0.0	107.2	-86.04	-63.87	-10.43	10.96	2.86	34.51
127	149	60.49	-14.01	7.13e-04	-4.70	0.0	-82.23	-32.00	5.69	-11.47	-20.29	60.49
		23.56	-20.29	-3.44e-03	0.0	107.2	-83.55	-36.69	5.69	-11.47	-14.01	23.56
127	157	80.41	-1.56	9.25e-04	-4.70	0.0	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
		29.03	-3.74	2.63e-05	0.0	107.2	-85.00	-50.26	-2.04	-0.37	-3.74	29.03
127	158	80.43	-2.14	9.25e-04	-4.70	0.0	-83.60	-45.58	-2.73	-0.42	-2.14	80.43
		29.04	-5.07	2.96e-05	0.0	107.2	-84.93	-50.28	-2.73	-0.42	-5.07	29.04
128	3	104.62	-3.50	-1.20e-03	-6.10	0.0	-110.27	65.40	4.39	0.60	-8.21	37.76
		37.76	-8.21	-4.28e-05	0.0	107.2	-108.55	59.30	4.39	0.60	-3.50	104.62
128	5	80.38	-1.55	-9.25e-04	-4.70	0.0	-85.05	50.24	2.02	0.37	-3.72	29.02
		29.02	-3.72	-2.50e-05	0.0	107.2	-83.73	45.55	2.02	0.37	-1.55	80.38
128	7	80.45	-3.02	-9.26e-04	-4.70	0.0	-84.88	50.29	3.74	0.49	-7.03	29.04
		29.04	-7.03	-3.25e-05	0.0	107.2	-83.55	45.60	3.74	0.49	-3.02	80.45
128	9	136.10	-1.99	-1.57e-03	-6.10	0.0	-143.53	83.09	2.69	0.56	-4.87	50.28
		50.28	-4.87	-3.86e-05	0.0	107.2	-141.80	76.99	2.69	0.56	-1.99	136.10
128	11	136.15	-3.03	-1.57e-03	-6.10	0.0	-143.41	83.13	3.89	0.65	-7.20	50.29
		50.29	-7.20	-4.38e-05	0.0	107.2	-141.68	77.02	3.89	0.65	-3.03	136.15
128	12	111.94	-1.51	-1.29e-03	-4.70	0.0	-118.14	67.98	2.04	0.44	-3.70	41.56
		41.56	-3.70	-2.82e-05	0.0	107.2	-116.81	63.29	2.04	0.44	-1.51	111.94
128	15	80.41	-1.56	-9.25e-04	-4.70	0.0	-85.00	50.26	2.04	0.37	-3.74	29.03
		29.03	-3.74	-2.63e-05	0.0	107.2	-83.67	45.56	2.04	0.37	-1.56	80.41
128	17	80.45	-2.54	-9.26e-04	-4.70	0.0	-84.88	50.29	3.18	0.45	-5.95	29.04
		29.04	-5.95	-3.12e-05	0.0	107.2	-83.56	45.60	3.18	0.45	-2.54	80.45
128	19	101.44	-1.53	-1.17e-03	-4.70	0.0	-107.06	62.08	2.05	0.42	-3.73	37.38
		37.38	-3.73	-2.84e-05	0.0	107.2	-105.73	57.39	2.05	0.42	-1.53	101.44
128	21	101.47	-2.22	-1.17e-03	-4.70	0.0	-106.97	62.11	2.85	0.48	-5.28	37.39
		37.39	-5.28	-3.19e-05	0.0	107.2	-105.65	57.41	2.85	0.48	-2.22	101.47
128	22	80.41	-1.56	-9.25e-04	-4.70	0.0	-85.00	50.26	2.04	0.37	-3.74	29.03
		29.03	-3.74	-2.63e-05	0.0	107.2	-83.67	45.56	2.04	0.37	-1.56	80.41
128	23	80.44	-2.24	-9.25e-04	-4.70	0.0	-84.92	50.28	2.84	0.43	-5.29	29.04
		29.04	-5.29	-2.97e-05	0.0	107.2	-83.59	45.59	2.84	0.43	-2.24	80.44
128	24	84.61	-1.55	-9.73e-04	-4.70	0.0	-89.41	52.62	2.04	0.38	-3.74	30.70
		30.70	-3.74	-2.67e-05	0.0	107.2	-88.08	47.93	2.04	0.38	-1.55	84.61
128	26	84.64	-2.14	-9.74e-04	-4.70	0.0	-89.34	52.64	2.73	0.43	-5.07	30.71
		30.71	-5.07	-2.97e-05	0.0	107.2	-88.01	47.95	2.73	0.43	-2.14	84.64
128	27	80.41	-1.56	-9.25e-04	-4.70	0.0	-85.00	50.26	2.04	0.37	-3.74	29.03
		29.03	-3.74	-2.63e-05	0.0	107.2	-83.67	45.56	2.04	0.37	-1.56	80.41
128	28	80.43	-2.14	-9.25e-04	-4.70	0.0	-84.93	50.28	2.73	0.42	-5.07	29.04
		29.04	-5.07	-2.92e-05	0.0	107.2	-83.60	45.58	2.73	0.42	-2.14	80.43
128	32	80.29	-37.33	-9.28e-04	-4.70	0.0	-104.50	50.34	-25.33	38.54	-37.33	28.85
		28.85	-64.37	0.01	0.0	107.2	-103.18	45.64	-25.33	38.54	-64.37	80.29
128	33	80.58	60.08	-9.23e-04	-4.70	0.0	-65.36	50.22	30.78	-37.71	27.20	29.22
		29.22	27.20	-0.01	0.0	107.2	-64.03	45.53	30.78	-37.71	60.08	80.58
128	88	76.59	-18.86	-9.13e-04	-4.70	0.0	-134.70	48.65	-1.42	10.86	-18.86	26.96
		26.96	-21.84	3.51e-03	0.0	107.2	-133.37	43.96	-1.42	10.86	-21.84	76.59
128	89	84.28	17.55	-9.38e-04	-4.70	0.0	-35.16	51.91	6.87	-10.03	8.73	31.11
		31.11	8.73	-3.57e-03	0.0	107.2	-33.83	47.21	6.87	-10.03	17.55	84.28
128	94	77.77	-21.70	-8.98e-04	-4.70	0.0	-92.71	48.51	-11.91	20.23	-21.70	28.26
		28.26	-34.41	5.79e-03	0.0	107.2	-91.39	43.81	-11.91	20.23	-34.41	77.77
128	95	83.10	30.12	-9.53e-04	-4.70	0.0	-77.15	52.05	17.36	-19.40	11.56	29.81
		29.81	11.56	-5.85e-03	0.0	107.2	-75.82	47.36	17.36	-19.40	30.12	83.10
128	118	75.73	-12.62	-8.89e-04	-4.70	0.0	-108.93	47.57	0.17	5.64	-12.62	27.23
		27.23	-13.27	1.91e-03	0.0	107.2	-107.60	42.87	0.17	5.64	-13.27	75.73
128	122	75.72	-12.08	-8.90e-04	-4.70	0.0	-109.07	47.56	0.55	5.81	-12.08	27.23
		27.23	-12.29	1.78e-03	0.0	107.2	-107.75	42.87	0.55	5.81	-12.29	75.72

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
128	123	85.15	8.00	-9.61e-04	-4.70	0.0	-60.79	52.99	4.90	-4.98	1.95	30.84
		30.84	1.95	-1.84e-03	0.0	107.2	-59.46	48.30	4.90	-4.98	8.00	85.15
128	135	60.49	-14.01	-7.13e-04	-4.70	0.0	-83.55	36.69	-5.69	11.47	-14.01	23.56
		23.56	-20.29	3.44e-03	0.0	107.2	-82.23	32.00	-5.69	11.47	-20.29	60.49
128	154	100.38	14.15	-1.14e-03	-4.70	0.0	-86.04	63.87	10.43	-10.96	2.86	34.51
		34.51	2.86	-3.28e-03	0.0	107.2	-84.71	59.17	10.43	-10.96	14.15	100.38
128	157	80.41	-1.56	-9.25e-04	-4.70	0.0	-85.00	50.26	2.04	0.37	-3.74	29.03
		29.03	-3.74	-2.63e-05	0.0	107.2	-83.67	45.56	2.04	0.37	-1.56	80.41
128	158	80.43	-2.14	-9.25e-04	-4.70	0.0	-84.93	50.28	2.73	0.42	-5.07	29.04
		29.04	-5.07	-2.92e-05	0.0	107.2	-83.60	45.58	2.73	0.42	-2.14	80.43
129	5	161.01	-1.29	-7.17e-05	-6.81	0.0	-67.55	-11.73	4.00e-06	0.37	-1.29	161.01
		142.08	-1.29	-9.75e-05	0.0	125.1	-65.63	-18.54	4.00e-06	0.37	-1.29	142.08
129	7	161.24	-1.73	-7.18e-05	-6.81	0.0	-67.37	-11.68	5.46e-06	0.49	-1.73	161.24
		142.37	-1.73	-1.47e-04	0.0	125.1	-65.45	-18.49	5.46e-06	0.49	-1.73	142.37
129	9	273.17	-1.98	-1.21e-04	-8.85	0.0	-113.69	-22.56	6.20e-06	0.56	-1.98	273.17
		239.42	-1.98	-1.43e-04	0.0	125.1	-111.19	-31.41	6.20e-06	0.56	-1.98	239.42
129	11	273.33	-2.29	-1.21e-04	-8.85	0.0	-113.56	-22.52	7.23e-06	0.65	-2.29	273.33
		239.62	-2.29	-1.77e-04	0.0	125.1	-111.06	-31.37	7.23e-06	0.65	-2.29	239.62
129	15	161.08	-1.30	-7.18e-05	-6.81	0.0	-67.49	-11.71	4.04e-06	0.37	-1.30	161.08
		142.17	-1.30	-9.93e-05	0.0	125.1	-65.57	-18.52	4.04e-06	0.37	-1.30	142.17
129	17	161.23	-1.59	-7.18e-05	-6.81	0.0	-67.38	-11.68	5.01e-06	0.45	-1.59	161.23
		142.36	-1.59	-1.32e-04	0.0	125.1	-65.46	-18.49	5.01e-06	0.45	-1.59	142.36
129	19	203.54	-1.49	-9.02e-05	-6.81	0.0	-84.83	-16.61	4.65e-06	0.42	-1.49	203.54
		178.51	-1.49	-1.07e-04	0.0	125.1	-82.90	-23.42	4.65e-06	0.42	-1.49	178.51
129	21	203.65	-1.69	-9.03e-05	-6.81	0.0	-84.75	-16.59	5.33e-06	0.48	-1.69	203.65
		178.64	-1.69	-1.30e-04	0.0	125.1	-82.82	-23.39	5.33e-06	0.48	-1.69	178.64
129	22	161.08	-1.30	-7.18e-05	-6.81	0.0	-67.49	-11.71	4.04e-06	0.37	-1.30	161.08
		142.17	-1.30	-9.93e-05	0.0	125.1	-65.57	-18.52	4.04e-06	0.37	-1.30	142.17
129	23	161.19	-1.51	-7.18e-05	-6.81	0.0	-67.41	-11.69	4.72e-06	0.43	-1.51	161.19
		142.31	-1.51	-1.22e-04	0.0	125.1	-65.49	-18.50	4.72e-06	0.43	-1.51	142.31
129	24	169.57	-1.34	-7.55e-05	-6.81	0.0	-70.96	-12.69	4.16e-06	0.38	-1.34	169.57
		149.44	-1.34	-1.01e-04	0.0	125.1	-69.04	-19.50	4.16e-06	0.38	-1.34	149.44
129	26	169.66	-1.51	-7.55e-05	-6.81	0.0	-70.89	-12.67	4.75e-06	0.43	-1.51	169.66
		149.55	-1.51	-1.21e-04	0.0	125.1	-68.97	-19.48	4.75e-06	0.43	-1.51	149.55
129	27	161.08	-1.30	-7.18e-05	-6.81	0.0	-67.49	-11.71	4.04e-06	0.37	-1.30	161.08
		142.17	-1.30	-9.93e-05	0.0	125.1	-65.57	-18.52	4.04e-06	0.37	-1.30	142.17
129	28	161.17	-1.48	-7.18e-05	-6.81	0.0	-67.42	-11.69	4.62e-06	0.42	-1.48	161.17
		142.29	-1.48	-1.19e-04	0.0	125.1	-65.50	-18.50	4.62e-06	0.42	-1.48	142.29
129	30	163.59	-140.59	-6.86e-05	-6.81	0.0	-77.53	-15.73	3.66	39.90	-143.59	163.59
		140.30	-143.59	4.93e-03	0.0	125.1	-75.61	-22.53	3.66	39.90	-140.59	140.30
129	35	158.75	140.64	-7.50e-05	-6.81	0.0	-57.32	-7.66	-3.66	-39.07	140.64	158.75
		144.28	137.63	-5.16e-03	0.0	125.1	-55.39	-14.47	-3.66	-39.07	137.63	144.28
129	93	156.25	-73.86	-6.73e-05	-6.81	0.0	-70.83	-13.45	1.97	20.97	-75.48	156.25
		135.49	-75.48	2.49e-03	0.0	125.1	-68.91	-20.25	1.97	20.97	-73.86	135.49
129	96	166.09	72.53	-7.63e-05	-6.81	0.0	-64.02	-9.94	-1.97	-20.13	72.53	166.09
		149.09	70.90	-2.72e-03	0.0	125.1	-62.10	-16.75	-1.97	-20.13	70.90	149.09
129	98	154.11	-74.03	-7.29e-05	-6.81	0.0	-71.88	-11.73	1.22	20.35	-74.37	154.11
		135.49	-74.37	2.77e-03	0.0	125.1	-69.96	-18.54	1.22	20.35	-74.03	135.49
129	106	154.08	-70.38	-7.25e-05	-6.81	0.0	-71.93	-11.66	-3.17	20.94	-70.38	154.08
		135.49	-73.87	3.07e-03	0.0	125.1	-70.01	-18.46	-3.17	20.94	-73.87	135.49
129	107	168.27	70.91	-7.11e-05	-6.81	0.0	-62.92	-11.73	3.17	-20.10	67.42	168.27
		149.09	67.42	-3.31e-03	0.0	125.1	-60.99	-18.54	3.17	-20.10	70.91	149.09
129	135	115.43	-42.49	-5.94e-05	-6.81	0.0	-59.12	-7.97	0.25	11.47	-42.49	115.43
		101.26	-42.96	1.71e-03	0.0	125.1	-57.20	-14.78	0.25	11.47	-42.96	101.26
129	152	195.27	-41.02	-9.47e-05	-6.81	0.0	-82.60	-12.65	-2.14	12.03	-41.02	195.27
		175.45	-43.68	1.87e-03	0.0	125.1	-80.68	-19.46	-2.14	12.03	-43.68	175.45
129	153	127.08	40.72	-4.91e-05	-6.81	0.0	-52.25	-10.74	2.14	-11.19	38.06	127.08
		109.13	38.06	-2.11e-03	0.0	125.1	-50.33	-17.54	2.14	-11.19	40.72	109.13
129	154	206.93	39.91	-8.46e-05	-6.81	0.0	-75.70	-15.46	2.22	-10.96	37.28	206.93
		183.32	37.28	-2.12e-03	0.0	125.1	-73.78	-22.27	2.22	-10.96	39.91	183.32
129	157	161.08	-1.30	-7.18e-05	-6.81	0.0	-67.49	-11.71	4.04e-06	0.37	-1.30	161.08
		142.17	-1.30	-9.93e-05	0.0	125.1	-65.57	-18.52	4.04e-06	0.37	-1.30	142.17
129	158	161.17	-1.48	-7.18e-05	-6.81	0.0	-67.42	-11.69	4.62e-06	0.42	-1.48	161.17
		142.29	-1.48	-1.19e-04	0.0	125.1	-65.50	-18.50	4.62e-06	0.42	-1.48	142.29
130	4	203.35	1.26	-2.54e-04	-3.01	0.0	-114.38	30.26	-1.64	0.64	1.26	191.43
		191.43	0.58	-4.05e-05	0.0	41.5	-113.53	27.25	-1.64	0.64	0.58	203.35
130	5	135.60	0.64	-1.69e-04	-2.31	0.0	-76.80	21.03	-0.90	0.37	0.64	127.36
		127.36	0.26	-1.98e-05	0.0	41.5	-76.15	18.71	-0.90	0.37	0.26	135.60
130	7	135.75	1.02	-1.70e-04	-2.31	0.0	-76.63	21.08	-1.28	0.49	1.02	127.49
		127.49	0.49	-3.30e-05	0.0	41.5	-75.97	18.76	-1.28	0.49	0.49	135.75
130	9	230.03	0.91	-2.87e-04	-3.01	0.0	-129.40	33.06	-1.34	0.56	0.91	216.94
		216.94	0.35	-2.78e-05	0.0	41.5	-128.55	30.05	-1.34	0.56	0.35	230.03

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
130	11	230.13	1.17	-2.87e-04	-3.01	0.0	-129.27	33.09	-1.61	0.65	1.17	217.03
		217.03	0.50	-3.70e-05	0.0	41.5	-128.42	30.08	-1.61	0.65	0.50	230.13
130	12	189.24	0.69	-2.36e-04	-2.31	0.0	-106.48	26.71	-1.05	0.44	0.69	178.64
		178.64	0.26	-2.06e-05	0.0	41.5	-105.83	24.40	-1.05	0.44	0.26	189.24
130	15	135.65	0.65	-1.70e-04	-2.31	0.0	-76.75	21.04	-0.91	0.37	0.65	127.40
		127.40	0.27	-2.03e-05	0.0	41.5	-76.09	18.73	-0.91	0.37	0.27	135.65
130	17	135.75	0.90	-1.70e-04	-2.31	0.0	-76.63	21.08	-1.16	0.45	0.90	127.49
		127.49	0.42	-2.91e-05	0.0	41.5	-75.98	18.76	-1.16	0.45	0.42	135.75
130	18	153.62	0.92	-1.92e-04	-2.31	0.0	-86.52	22.97	-1.21	0.48	0.92	144.58
		144.58	0.42	-2.94e-05	0.0	41.5	-85.87	20.66	-1.21	0.48	0.42	153.62
130	19	171.41	0.68	-2.14e-04	-2.31	0.0	-96.53	24.83	-1.01	0.42	0.68	161.59
		161.59	0.27	-2.09e-05	0.0	41.5	-95.88	22.52	-1.01	0.42	0.27	171.41
130	21	171.48	0.86	-2.14e-04	-2.31	0.0	-96.45	24.86	-1.19	0.48	0.86	161.65
		161.65	0.37	-2.70e-05	0.0	41.5	-95.80	22.54	-1.19	0.48	0.37	171.48
130	22	135.65	0.65	-1.70e-04	-2.31	0.0	-76.75	21.04	-0.91	0.37	0.65	127.40
		127.40	0.27	-2.03e-05	0.0	41.5	-76.09	18.73	-0.91	0.37	0.27	135.65
130	23	135.72	0.82	-1.70e-04	-2.31	0.0	-76.67	21.07	-1.08	0.43	0.82	127.46
		127.46	0.37	-2.65e-05	0.0	41.5	-76.01	18.75	-1.08	0.43	0.37	135.72
130	24	142.80	0.65	-1.78e-04	-2.31	0.0	-80.70	21.80	-0.93	0.38	0.65	134.24
		134.24	0.27	-2.04e-05	0.0	41.5	-80.05	19.49	-0.93	0.38	0.27	142.80
130	26	142.86	0.81	-1.79e-04	-2.31	0.0	-80.63	21.82	-1.08	0.43	0.81	134.29
		134.29	0.36	-2.57e-05	0.0	41.5	-79.98	19.51	-1.08	0.43	0.36	142.86
130	27	135.65	0.65	-1.70e-04	-2.31	0.0	-76.75	21.04	-0.91	0.37	0.65	127.40
		127.40	0.27	-2.03e-05	0.0	41.5	-76.09	18.73	-0.91	0.37	0.27	135.65
130	28	135.71	0.80	-1.70e-04	-2.31	0.0	-76.68	21.06	-1.06	0.42	0.80	127.45
		127.45	0.36	-2.56e-05	0.0	41.5	-76.02	18.75	-1.06	0.42	0.36	135.71
130	29	121.08	-92.54	-1.48e-04	-2.31	0.0	-75.21	16.73	-25.54	39.83	-92.54	114.57
		114.57	-103.00	3.92e-03	0.0	41.5	-74.56	14.42	-25.54	39.83	-103.00	121.08
130	36	150.34	103.72	-1.91e-04	-2.31	0.0	-78.14	25.39	23.42	-39.00	94.14	140.33
		140.33	94.14	-3.98e-03	0.0	41.5	-77.49	23.08	23.42	-39.00	103.72	150.34
130	88	131.66	-19.27	-1.77e-04	-2.31	0.0	-108.69	22.97	-9.41	10.86	-19.27	122.62
		122.62	-23.06	1.37e-03	0.0	41.5	-108.03	20.65	-9.41	10.86	-23.06	131.66
130	89	139.75	23.77	-1.62e-04	-2.31	0.0	-44.67	19.16	7.29	-10.03	20.87	132.28
		132.28	20.87	-1.42e-03	0.0	41.5	-44.01	16.84	7.29	-10.03	23.77	139.75
130	93	132.94	-47.73	-1.65e-04	-2.31	0.0	-78.04	19.83	-13.89	20.97	-47.73	125.18
		125.18	-53.41	2.02e-03	0.0	41.5	-77.38	17.52	-13.89	20.97	-53.41	132.94
130	96	138.47	54.13	-1.75e-04	-2.31	0.0	-75.32	22.29	11.78	-20.13	49.33	129.72
		129.72	49.33	-2.07e-03	0.0	41.5	-74.66	19.97	11.78	-20.13	54.13	138.47
130	122	128.62	-9.58	-1.67e-04	-2.31	0.0	-91.57	21.04	-5.40	5.81	-9.58	120.37
		120.37	-11.76	7.00e-04	0.0	41.5	-90.92	18.73	-5.40	5.81	-11.76	128.62
130	123	142.79	12.48	-1.72e-04	-2.31	0.0	-61.78	21.08	3.28	-4.98	11.17	134.53
		134.53	11.17	-7.51e-04	0.0	41.5	-61.13	18.77	3.28	-4.98	12.48	142.79
130	151	99.45	-23.01	-1.27e-04	-2.31	0.0	-72.35	14.03	-8.57	11.80	-23.01	94.08
		94.08	-26.50	1.24e-03	0.0	41.5	-71.70	11.71	-8.57	11.80	-26.50	99.45
130	154	171.96	27.22	-2.12e-04	-2.31	0.0	-81.00	28.10	6.46	-10.96	24.61	160.82
		160.82	24.61	-1.30e-03	0.0	41.5	-80.35	25.78	6.46	-10.96	27.22	171.96
130	157	135.65	0.65	-1.70e-04	-2.31	0.0	-76.75	21.04	-0.91	0.37	0.65	127.40
		127.40	0.27	-2.03e-05	0.0	41.5	-76.09	18.73	-0.91	0.37	0.27	135.65
130	158	135.71	0.80	-1.70e-04	-2.31	0.0	-76.68	21.06	-1.06	0.42	0.80	127.45
		127.45	0.36	-2.56e-05	0.0	41.5	-76.02	18.75	-1.06	0.42	0.36	135.71
131	5	160.68	-1.08	3.13e-05	-1.32	0.0	-73.70	-10.05	0.90	-0.37	-1.29	160.68
		158.07	-1.29	1.47e-05	0.0	24.3	-74.08	-11.37	0.90	-0.37	-1.08	158.07
131	7	160.91	-1.42	3.14e-05	-1.32	0.0	-73.53	-10.10	1.28	-0.49	-1.73	160.91
		158.29	-1.73	2.28e-05	0.0	24.3	-73.90	-11.42	1.28	-0.49	-1.42	158.29
131	9	272.56	-1.65	5.30e-05	-1.72	0.0	-125.37	-18.79	1.34	-0.56	-1.98	272.56
		267.79	-1.98	2.12e-05	0.0	24.3	-125.85	-20.51	1.34	-0.56	-1.65	267.79
131	11	272.72	-1.90	5.30e-05	-1.72	0.0	-125.24	-18.82	1.61	-0.65	-2.29	272.72
		267.94	-2.29	2.69e-05	0.0	24.3	-125.73	-20.54	1.61	-0.65	-1.90	267.94
131	15	160.75	-1.08	3.14e-05	-1.32	0.0	-73.65	-10.07	0.91	-0.37	-1.30	160.75
		158.14	-1.30	1.50e-05	0.0	24.3	-74.02	-11.39	0.91	-0.37	-1.08	158.14
131	17	160.90	-1.31	3.14e-05	-1.32	0.0	-73.53	-10.10	1.16	-0.45	-1.59	160.90
		158.29	-1.59	2.04e-05	0.0	24.3	-73.90	-11.42	1.16	-0.45	-1.31	158.29
131	19	203.09	-1.24	3.95e-05	-1.32	0.0	-93.43	-13.86	1.01	-0.42	-1.49	203.09
		199.57	-1.49	1.60e-05	0.0	24.3	-93.81	-15.18	1.01	-0.42	-1.24	199.57
131	21	203.20	-1.40	3.95e-05	-1.32	0.0	-93.35	-13.88	1.19	-0.48	-1.69	203.20
		199.67	-1.69	1.98e-05	0.0	24.3	-93.72	-15.20	1.19	-0.48	-1.40	199.67
131	22	160.75	-1.08	3.14e-05	-1.32	0.0	-73.65	-10.07	0.91	-0.37	-1.30	160.75
		158.14	-1.30	1.50e-05	0.0	24.3	-74.02	-11.39	0.91	-0.37	-1.08	158.14
131	23	160.86	-1.24	3.14e-05	-1.32	0.0	-73.57	-10.09	1.08	-0.43	-1.51	160.86
		158.24	-1.51	1.88e-05	0.0	24.3	-73.94	-11.41	1.08	-0.43	-1.24	158.24
131	24	169.22	-1.11	3.30e-05	-1.32	0.0	-77.60	-10.83	0.93	-0.38	-1.34	169.22
		166.43	-1.34	1.52e-05	0.0	24.3	-77.98	-12.15	0.93	-0.38	-1.11	166.43

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
131	26	169.31	-1.25	3.30e-05	-1.32	0.0	-77.53	-10.85	1.08	-0.43	-1.51	169.31
		166.51	-1.51	1.85e-05	0.0	24.3	-77.91	-12.17	1.08	-0.43	-1.25	166.51
131	27	160.75	-1.08	3.14e-05	-1.32	0.0	-73.65	-10.07	0.91	-0.37	-1.30	160.75
		158.14	-1.30	1.50e-05	0.0	24.3	-74.02	-11.39	0.91	-0.37	-1.08	158.14
131	28	160.84	-1.22	3.14e-05	-1.32	0.0	-73.58	-10.09	1.06	-0.42	-1.48	160.84
		158.23	-1.48	1.83e-05	0.0	24.3	-73.95	-11.41	1.06	-0.42	-1.22	158.23
131	48	163.26	-138.32	3.10e-05	-1.32	0.0	-81.48	-8.87	21.89	-39.90	-143.59	163.26
		160.93	-143.59	-1.41e-03	0.0	24.3	-81.85	-10.19	21.89	-39.90	-138.32	160.93
131	49	158.42	140.64	3.18e-05	-1.32	0.0	-65.68	-11.31	-19.78	39.07	140.64	158.42
		155.53	135.88	1.45e-03	0.0	24.3	-66.05	-12.63	-19.78	39.07	135.88	155.53
131	78	161.16	-36.69	3.68e-05	-1.32	0.0	-99.85	-12.97	8.90	-10.86	-38.81	161.16
		157.85	-38.81	-5.90e-04	0.0	24.3	-100.23	-14.30	8.90	-10.86	-36.69	157.85
131	83	160.52	35.86	2.60e-05	-1.32	0.0	-47.30	-7.20	-6.78	10.03	35.86	160.52
		158.61	34.25	6.26e-04	0.0	24.3	-47.67	-8.52	-6.78	10.03	34.25	158.61
131	97	153.74	-67.28	3.08e-05	-1.32	0.0	-80.79	-9.33	13.01	-20.94	-70.38	153.74
		151.31	-70.38	-8.21e-04	0.0	24.3	-81.16	-10.66	13.01	-20.94	-67.28	151.31
131	100	167.94	67.42	3.20e-05	-1.32	0.0	-66.37	-10.84	-10.90	20.10	67.42	167.94
		165.15	64.83	8.58e-04	0.0	24.3	-66.74	-12.16	-10.90	20.10	64.83	165.15
131	102	155.91	-72.61	3.00e-05	-1.32	0.0	-75.48	-8.75	11.90	-20.97	-75.48	155.91
		153.61	-75.48	-7.20e-04	0.0	24.3	-75.85	-10.08	11.90	-20.97	-72.61	153.61
131	103	165.77	72.53	3.28e-05	-1.32	0.0	-71.68	-11.42	-9.79	20.13	72.53	165.77
		162.85	70.17	7.57e-04	0.0	24.3	-72.05	-12.74	-9.79	20.13	70.17	162.85
131	117	154.63	-19.56	3.30e-05	-1.32	0.0	-85.49	-10.93	5.14	-5.81	-20.79	154.63
		151.81	-20.79	-3.00e-04	0.0	24.3	-85.86	-12.25	5.14	-5.81	-19.56	151.81
131	120	167.05	17.83	2.97e-05	-1.32	0.0	-61.66	-9.24	-3.02	4.98	17.83	167.05
		164.65	17.12	3.37e-04	0.0	24.3	-62.04	-10.56	-3.02	4.98	17.12	164.65
131	133	115.03	-38.34	2.41e-05	-1.32	0.0	-68.23	-5.65	7.83	-11.80	-40.23	115.03
		113.48	-40.23	-4.97e-04	0.0	24.3	-68.61	-6.97	7.83	-11.80	-38.34	113.48
131	140	206.65	37.28	3.86e-05	-1.32	0.0	-78.92	-14.52	-5.72	10.96	37.28	206.65
		202.98	35.90	5.34e-04	0.0	24.3	-79.29	-15.84	-5.72	10.96	35.90	202.98
131	157	160.75	-1.08	3.14e-05	-1.32	0.0	-73.65	-10.07	0.91	-0.37	-1.30	160.75
		158.14	-1.30	1.50e-05	0.0	24.3	-74.02	-11.39	0.91	-0.37	-1.08	158.14
131	158	160.84	-1.22	3.14e-05	-1.32	0.0	-73.58	-10.09	1.06	-0.42	-1.48	160.84
		158.23	-1.48	1.83e-05	0.0	24.3	-73.95	-11.41	1.06	-0.42	-1.22	158.23
132	3	164.38	1.23	8.29e-04	-7.83	0.0	-106.33	-51.47	-4.39	-0.60	1.23	164.38
		104.62	-3.50	1.05e-04	0.0	107.9	-108.55	-59.30	-4.39	-0.60	-3.50	104.62
132	4	189.73	1.26	9.54e-04	-7.83	0.0	-122.88	-60.34	-4.39	-0.64	1.26	189.73
		120.40	-3.49	1.06e-04	0.0	107.9	-125.09	-68.17	-4.39	-0.64	-3.49	120.40
132	5	126.28	0.64	6.36e-04	-6.02	0.0	-82.03	-39.53	-2.02	-0.37	0.64	126.28
		80.38	-1.55	5.24e-05	0.0	107.9	-83.73	-45.55	-2.02	-0.37	-1.55	80.38
132	7	126.41	1.02	6.37e-04	-6.02	0.0	-81.85	-39.58	-3.74	-0.49	1.02	126.41
		80.45	-3.02	8.58e-05	0.0	107.9	-83.55	-45.60	-3.74	-0.49	-3.02	80.45
132	9	214.95	0.91	1.08e-03	-7.83	0.0	-139.59	-69.16	-2.69	-0.56	0.91	214.95
		136.10	-1.99	7.40e-05	0.0	107.9	-141.80	-76.99	-2.69	-0.56	-1.99	136.10
132	11	215.04	1.17	1.08e-03	-7.83	0.0	-139.47	-69.19	-3.89	-0.65	1.17	215.04
		136.15	-3.03	9.73e-05	0.0	107.9	-141.68	-77.02	-3.89	-0.65	-3.03	136.15
132	15	126.32	0.65	6.37e-04	-6.02	0.0	-81.97	-39.54	-2.04	-0.37	0.65	126.32
		80.41	-1.56	5.38e-05	0.0	107.9	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
132	17	126.40	0.90	6.37e-04	-6.02	0.0	-81.86	-39.57	-3.18	-0.45	0.90	126.40
		80.45	-2.54	7.61e-05	0.0	107.9	-83.56	-45.60	-3.18	-0.45	-2.54	80.45
132	18	143.30	0.92	7.21e-04	-6.02	0.0	-92.88	-45.49	-3.19	-0.48	0.92	143.30
		90.97	-2.53	7.69e-05	0.0	107.9	-94.58	-51.51	-3.19	-0.48	-2.53	90.97
132	19	160.12	0.68	8.04e-04	-6.02	0.0	-104.03	-51.37	-2.05	-0.42	0.68	160.12
		101.44	-1.53	5.56e-05	0.0	107.9	-105.73	-57.39	-2.05	-0.42	-1.53	101.44
132	21	160.17	0.86	8.04e-04	-6.02	0.0	-103.95	-51.39	-2.85	-0.48	0.86	160.17
		101.47	-2.22	7.11e-05	0.0	107.9	-105.65	-57.41	-2.85	-0.48	-2.22	101.47
132	22	126.32	0.65	6.37e-04	-6.02	0.0	-81.97	-39.54	-2.04	-0.37	0.65	126.32
		80.41	-1.56	5.38e-05	0.0	107.9	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
132	23	126.38	0.82	6.37e-04	-6.02	0.0	-81.89	-39.56	-2.84	-0.43	0.82	126.38
		80.44	-2.24	6.94e-05	0.0	107.9	-83.59	-45.59	-2.84	-0.43	-2.24	80.44
132	24	133.08	0.65	6.70e-04	-6.02	0.0	-86.38	-41.91	-2.04	-0.38	0.65	133.08
		84.61	-1.55	5.42e-05	0.0	107.9	-88.08	-47.93	-2.04	-0.38	-1.55	84.61
132	26	133.13	0.81	6.70e-04	-6.02	0.0	-86.31	-41.93	-2.73	-0.43	0.81	133.13
		84.64	-2.14	6.75e-05	0.0	107.9	-88.01	-47.95	-2.73	-0.43	-2.14	84.64
132	27	126.32	0.65	6.37e-04	-6.02	0.0	-81.97	-39.54	-2.04	-0.37	0.65	126.32
		80.41	-1.56	5.38e-05	0.0	107.9	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
132	28	126.37	0.80	6.37e-04	-6.02	0.0	-81.90	-39.56	-2.73	-0.42	0.80	126.37
		80.43	-2.14	6.72e-05	0.0	107.9	-83.60	-45.58	-2.73	-0.42	-2.14	80.43
132	47	113.39	-61.13	5.63e-04	-6.02	0.0	-77.59	-34.32	27.45	-39.83	-92.54	113.39
		73.10	-92.54	-0.01	0.0	107.9	-79.29	-40.34	27.45	-39.83	-61.13	73.10
132	50	139.35	94.14	7.10e-04	-6.02	0.0	-86.21	-44.81	-32.90	39.00	94.14	139.35
		87.77	56.84	0.01	0.0	107.9	-87.92	-50.83	-32.90	39.00	56.84	87.77

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
132	78	121.56	-19.27	6.50e-04	-6.02	0.0	-128.33	-38.68	1.39	-10.86	-19.27	121.56
		76.59	-21.84	-3.67e-03	0.0	107.9	-130.03	-44.70	1.39	-10.86	-21.84	76.59
132	83	131.18	20.87	6.24e-04	-6.02	0.0	-35.48	-40.45	-6.85	10.03	20.87	131.18
		84.28	17.55	3.80e-03	0.0	107.9	-37.18	-46.47	-6.85	10.03	17.55	84.28
132	102	124.07	-32.97	6.21e-04	-6.02	0.0	-81.99	-38.54	12.86	-20.97	-47.73	124.07
		79.23	-47.73	-5.61e-03	0.0	107.9	-83.69	-44.57	12.86	-20.97	-32.97	79.23
132	103	128.67	49.33	6.53e-04	-6.02	0.0	-81.82	-40.58	-18.31	20.13	49.33	128.67
		81.64	28.68	5.74e-03	0.0	107.9	-83.52	-46.60	-18.31	20.13	28.68	81.64
132	117	119.28	-9.58	6.21e-04	-6.02	0.0	-104.30	-37.35	-0.55	-5.81	-9.58	119.28
		75.72	-12.29	-1.87e-03	0.0	107.9	-106.01	-43.37	-0.55	-5.81	-12.29	75.72
132	120	133.47	11.17	6.53e-04	-6.02	0.0	-59.50	-41.77	-4.90	4.98	11.17	133.47
		85.15	8.00	2.00e-03	0.0	107.9	-61.20	-47.80	-4.90	4.98	8.00	85.15
132	133	92.81	-18.44	4.79e-04	-6.02	0.0	-80.19	-26.92	4.85	-11.80	-23.01	92.81
		60.49	-23.01	-3.37e-03	0.0	107.9	-81.89	-32.95	4.85	-11.80	-18.44	60.49
132	140	159.93	24.61	7.95e-04	-6.02	0.0	-83.61	-52.20	-10.31	10.96	24.61	159.93
		100.38	14.15	3.50e-03	0.0	107.9	-85.31	-58.22	-10.31	10.96	14.15	100.38
132	157	126.32	0.65	6.37e-04	-6.02	0.0	-81.97	-39.54	-2.04	-0.37	0.65	126.32
		80.41	-1.56	5.38e-05	0.0	107.9	-83.67	-45.56	-2.04	-0.37	-1.56	80.41
132	158	126.37	0.80	6.37e-04	-6.02	0.0	-81.90	-39.56	-2.73	-0.42	0.80	126.37
		80.43	-2.14	6.72e-05	0.0	107.9	-83.60	-45.58	-2.73	-0.42	-2.14	80.43
133	3	35.01	0.0	4.80e-04	-2.10	0.0	-118.27	-93.72	22.21	-0.60	-8.21	35.01
		0.0	-8.21	-1.18e-05	0.0	36.9	-118.86	-95.82	22.21	-0.60	0.0	0.0
133	7	26.93	0.0	3.69e-04	-1.62	0.0	-91.03	-72.07	19.03	-0.49	-7.03	26.93
		0.0	-7.03	-1.16e-05	0.0	36.9	-91.49	-73.69	19.03	-0.49	0.0	0.0
133	9	46.36	0.0	6.26e-04	-2.10	0.0	-155.20	-124.43	13.19	-0.56	-4.87	46.36
		0.0	-4.87	-2.41e-06	0.0	36.9	-155.80	-126.53	13.19	-0.56	0.0	0.0
133	11	46.37	0.0	6.26e-04	-2.10	0.0	-155.08	-124.47	19.47	-0.65	-7.20	46.37
		0.0	-7.20	-8.18e-06	0.0	36.9	-155.68	-126.57	19.47	-0.65	0.0	0.0
133	17	26.93	0.0	3.69e-04	-1.62	0.0	-91.03	-72.07	16.11	-0.45	-5.95	26.93
		0.0	-5.95	-8.53e-06	0.0	36.9	-91.49	-73.69	16.11	-0.45	0.0	0.0
133	19	34.49	0.0	4.66e-04	-1.62	0.0	-115.66	-92.55	10.10	-0.42	-3.73	34.49
		0.0	-3.73	-2.25e-06	0.0	36.9	-116.12	-94.17	10.10	-0.42	0.0	0.0
133	21	34.50	0.0	4.67e-04	-1.62	0.0	-115.58	-92.57	14.29	-0.48	-5.28	34.50
		0.0	-5.28	-6.09e-06	0.0	36.9	-116.03	-94.19	14.29	-0.48	0.0	0.0
133	23	26.92	0.0	3.69e-04	-1.62	0.0	-91.07	-72.06	14.32	-0.43	-5.29	26.92
		0.0	-5.29	-6.89e-06	0.0	36.9	-91.53	-73.68	14.32	-0.43	0.0	0.0
133	24	28.43	0.0	3.89e-04	-1.62	0.0	-96.05	-76.14	10.12	-0.38	-3.74	28.43
		0.0	-3.74	-2.88e-06	0.0	36.9	-96.51	-77.76	10.12	-0.38	0.0	0.0
133	26	28.44	0.0	3.89e-04	-1.62	0.0	-95.98	-76.16	13.71	-0.43	-5.07	28.44
		0.0	-5.07	-6.18e-06	0.0	36.9	-96.44	-77.78	13.71	-0.43	0.0	0.0
133	27	26.91	0.0	3.69e-04	-1.62	0.0	-91.15	-72.04	10.13	-0.37	-3.74	26.91
		0.0	-3.74	-3.04e-06	0.0	36.9	-91.61	-73.66	10.13	-0.37	0.0	0.0
133	28	26.92	0.0	3.69e-04	-1.62	0.0	-91.08	-72.06	13.72	-0.42	-5.07	26.92
		0.0	-5.07	-6.34e-06	0.0	36.9	-91.54	-73.68	13.72	-0.42	0.0	0.0
133	46	26.74	0.0	3.72e-04	-1.62	0.0	-113.89	-71.56	101.05	-38.54	-37.33	26.74
		0.0	-37.33	-3.40e-03	0.0	36.9	-114.34	-73.18	101.05	-38.54	0.0	0.0
133	51	27.11	27.20	3.67e-04	-1.62	0.0	-68.28	-72.56	-73.61	37.71	27.20	27.11
		0.0	0.0	3.39e-03	0.0	36.9	-68.73	-74.18	-73.61	37.71	0.0	0.0
133	78	24.82	0.0	3.63e-04	-1.62	0.0	-156.74	-66.38	51.06	-10.86	-18.86	24.82
		0.0	-18.86	-9.89e-04	0.0	36.9	-157.19	-67.99	51.06	-10.86	0.0	0.0
133	83	29.02	8.73	3.76e-04	-1.62	0.0	-25.42	-77.74	-23.62	10.03	8.73	29.02
		0.0	0.0	9.76e-04	0.0	36.9	-25.88	-79.36	-23.62	10.03	0.0	0.0
133	90	25.43	0.0	3.67e-04	-1.62	0.0	-151.94	-68.02	5.16	12.73	-1.91	25.43
		0.0	-1.91	8.46e-04	0.0	36.9	-152.40	-69.64	5.16	12.73	0.0	0.0
133	101	26.10	0.0	3.62e-04	-1.62	0.0	-100.33	-69.84	58.72	-20.23	-21.70	26.10
		0.0	-21.70	-1.72e-03	0.0	36.9	-100.79	-71.45	58.72	-20.23	0.0	0.0
133	104	27.74	11.56	3.76e-04	-1.62	0.0	-81.83	-74.28	-31.28	19.40	11.56	27.74
		0.0	0.0	1.71e-03	0.0	36.9	-82.29	-75.90	-31.28	19.40	0.0	0.0
133	117	25.06	0.0	3.57e-04	-1.62	0.0	-123.51	-67.01	32.71	-5.81	-12.08	25.06
		0.0	-12.08	-4.99e-04	0.0	36.9	-123.96	-68.63	32.71	-5.81	0.0	0.0
133	120	28.79	1.95	3.81e-04	-1.62	0.0	-58.66	-77.11	-5.27	4.98	1.95	28.79
		0.0	0.0	4.86e-04	0.0	36.9	-59.11	-78.73	-5.27	4.98	0.0	0.0
133	123	25.37	0.0	3.59e-04	-1.62	0.0	-121.01	-67.86	8.76	6.47	-3.24	25.37
		0.0	-3.24	4.19e-04	0.0	36.9	-121.47	-69.48	8.76	6.47	0.0	0.0
133	156	32.77	3.87	4.33e-04	-1.62	0.0	-89.60	-87.88	-10.48	10.63	3.87	32.77
		0.0	0.0	1.03e-03	0.0	36.9	-90.06	-89.50	-10.48	10.63	0.0	0.0
133	157	26.91	0.0	3.69e-04	-1.62	0.0	-91.15	-72.04	10.13	-0.37	-3.74	26.91
		0.0	-3.74	-3.04e-06	0.0	36.9	-91.61	-73.66	10.13	-0.37	0.0	0.0
133	158	26.92	0.0	3.69e-04	-1.62	0.0	-91.08	-72.06	13.72	-0.42	-5.07	26.92
		0.0	-5.07	-6.34e-06	0.0	36.9	-91.54	-73.68	13.72	-0.42	0.0	0.0
Trave		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		0.0	-143.59	-0.01	-9.54		-157.19	-272.34	-101.05	-40.51		
		693.63	143.27	0.01	0.0		38.07	272.34	101.05	40.51		

VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

LEGENDA TABELLA VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

In tabella vengono riportati per ogni elemento il numero identificativo ed il codice di verifica con le sigle **Ok** o **NV**.

Nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite (**S.L.**) vengono riportati: il rapporto x/d , le verifiche per sollecitazioni proporzionali e la verifica per compressione media con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

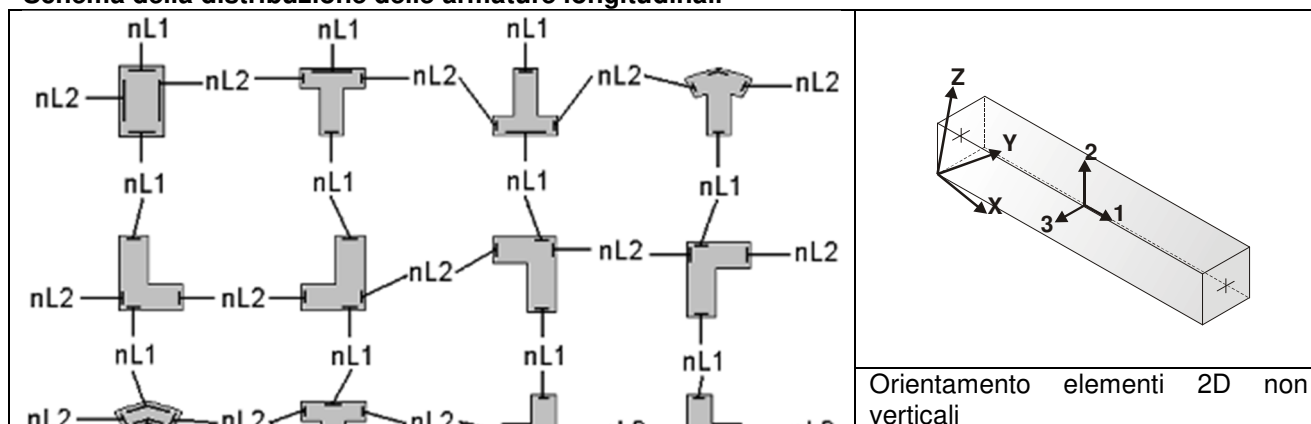
Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili (**T.A.**) vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale) con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

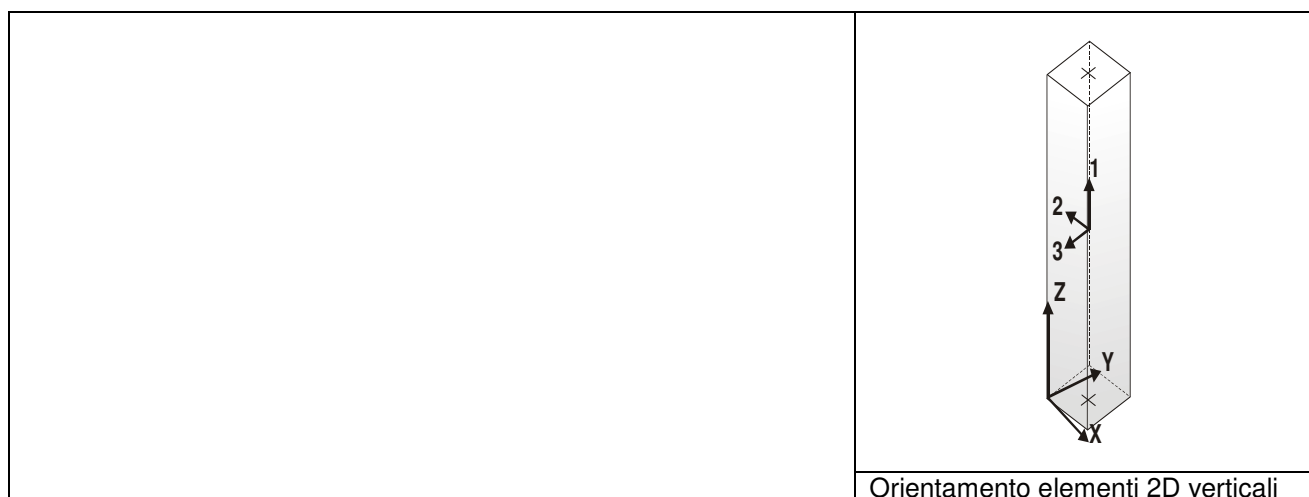
Nel caso in cui la struttura abbia comportamento dissipativo e sia prevista la progettazione con il criterio della gerarchia delle resistenze (**G.R.**) vengono riportate le verifiche di sovreresistenza e del nodo.

Per gli elementi tipo pilastro sono riportati numero e diametro dei ferri di vertice, numero e diametro di ferri disposti lungo i lati L1 (paralleli alla base della sezione) e lungo i lati L2 (paralleli all'altezza della sezione).

Per gli elementi tipo trave sono riportati infine le quantità di armatura inferiore e superiore.

Schema della distribuzione delle armature longitudinali





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 le sollecitazioni delle combinazioni con sisma 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 vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

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

Simbologia adottata nelle tabelle di verifica

Per le verifiche agli S.L. dei pilastri è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)
Pilas.	numero identificativo dell'elemento D2
Note	Codici identificativi delle sezione (s) e materiale (m) pilastro
Stato	Codici relativi all'esito delle verifiche effettuate appresso descritte
Quota	Quota sezione di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
r. snell.	Rapporto di snellezza λ su λ^* : valore superiore a 1 per elementi snelli nel caso in cui viene effettuata la verifica con il metodo diretto dello stato di equilibrio
Armat. long.	Numero e diametro (d) dei ferri di armatura longitudinale distinti in ferri di vertice + ferri di

	lato nelle posizioni nL1 e nL2, come da schemi in figura precedente
V N/M	Verifica a pressoflessione con rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
V N sis	Verifica a compressione solo calcestruzzo con rapporto N_{sd}/N_{rd} ed N_{rd} calcolato come al punto 7.4.4.2.1: valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} : 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 alla G.R. dei pilastri è presente una tabella con i simboli di seguito descritti:

Pilas.	numero identificativo dell'elemento D2 pilastro
sovr. Xi (Xf)	Verifica sovrarresistenza come da formula 7.4.4 in direzione X, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
sovr. Yi (Yf)	Verifica sovrarresistenza come da formula 7.4.4 in direzione Y, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
M 2-2 i (f)	Valore del momento resistente 2-2 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
M 3-3 i (f)	Valore del momento resistente 3-3 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M2-2 (M3-3)	Valore del taglio generato dai momenti resistenti 2-2 (3-3)

**Per le verifiche dei dettagli costruttivi per la duttilità è presente una tabella con i simboli di seguito descritti:
(Non presente nel caso di comportamento strutturale non dissipativo)**

Pilas	Numero identificativo D2 pilastro
ni	Sforzo assiale adimensionalizzato di progetto relativo alla combinazione sismica SLV
alfaomega	Prodotto tra il coefficiente di efficacia del confinamento e il rapporto meccanico dell'armatura trasversale di confinamento all'interno del nodo
V.7.4.29 2-2 (3-3)	Rapporto tra la domanda di staffe minima nel nodo e il rapporto meccanico dell'armatura trasversale di confinamento inserito all'interno del nodo in direzione 2 (3)
V. 7.4.29 Stato	Codici relativi all'esito della verifica 7.4.29
d _{mu} _fi 2-2 (3-3)	Domanda in duttilità di curvatura in direzione 2 (3)
c _{mu} _fi 2-2 (3-3)	Capacità in duttilità di curvatura in direzione 2 (3)
V. dutt. 2-2 (3-3)	Rapporto tra la domanda in duttilità di curvatura e la capacità in duttilità di curvatura in direzione 2 (3)

Per le verifiche nodi trave-pilastro di elementi nuovi è presente una tabella con i simboli di seguito descritti:

Nodo	Numero identificativo del nodo trave-pilastro
Stato	Esito delle verifiche
Pilastro	Numero identificativo D2 pilastro
Diam st	Diametro staffe nodo
Passo	Passo staffe nodo
n. br. 2 (3)	Numero braccia staffe per il taglio in direzione 2 (3)
Bj2 (3)	Larghezza effettiva del nodo per il taglio in direzione 2 (3)
Hjc2 (3)	Distanza tra le giaciture più esterne delle armature del pilastro per il taglio in direzione 2 (3)
V. 7.4.8	Rapporto tra il taglio V_{jbd} e il taglio resistente come da formula 7.4.8
V. Ash	Rapporto tra il passo staffe calcolato secondo il capitolo 7.4.4.3.1. e il passo staffe effettivamente inserita nel nodo. Nel caso di valore indica passo staffe utilizzato deriva dalle formule presenti nel paragrafo 7.4.4.3.1. Nel caso di valore minore di 1 il passo staffe

	utilizzato deriva del pilastro superiore o inferiore al nodo
7.4.10	Check passo staffe valutato in funzione della formula 7.4.10: <ul style="list-style-type: none"> • SI il passo staffe è calcolato utilizzando la formula 7.4.10; • NO il passo staffe è calcolato utilizzando le formule 7.4.11 e/o 7.4.12; • NR calcolo passo staffe non richiesto;
Rif. comb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il nodo

Per le verifiche nodi trave-pilastro di elementi esistenti è presente una tabella con i simboli di seguito descritti:

Pilastro I	Numero identificativo D2 del pilastro inferiore.
Pilastro S	Numero identificativo D2 del pilastro superiore.
Nodo	Numero identificativo del nodo trave-pilastro.
SL cod	Stato limite di riferimento e relativo esito delle verifiche.
ver. (+)	Fattore di sicurezza nei riguardi della verifica di resistenza a compressione (verificato se < 1.00).
V +	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a compressione.
V + af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a compressione.
N +	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a compressione.
ver. (-)	Fattore di sicurezza nei riguardi della verifica di resistenza a trazione (verificato se < 1.00).
V -	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a trazione.
V - af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a trazione.
N -	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a trazione.
AreaV2	Area resistente del nodo in direzione 2 ($A_{j2}=b_{j2}*h_{jc2}$).
AreaV3	Area resistente del nodo in direzione 3 ($A_{j3}=b_{j3}*h_{jc3}$).
Rif. comb.	Combinazione (direzione) di riferimento nella verifica di trazione.

Per le verifiche agli S.L. delle travi è presente una tabella con i simboli di seguito descritti:

M_T Z P	Numero della travata (T), quota media (Z), n° pilastrata iniziale (P) e finale (P) (nodo in assenza di pilastrata)
Trave	numero identificativo dell'elemento D2
Note	Codici identificativi sezione (s) e materiale (m) trave; sono inoltre presenti le sigle relative all'esito delle verifiche effettuate appresso descritte
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Af inf.	Area di armatura longitudinale posta all'intradosso
Af sup	Area di armatura longitudinale posta all'estradosso
Af long.	Area complessiva armatura longitudinale
x/d	rapporto tra posizione dell'asse neutro e altezza utile
V N/M	Verifica a pressoflessione rapporto E_d/R_d : valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto V_{ed}/V_{rd} : valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per la trave

Per le verifiche alla G.R. delle travi è presente una tabella con i simboli di seguito descritti:

Trave	numero identificativo dell'elemento D2 trave
M negativo i (f)	Valore del momento resistente negativo all' estremità iniziale i (finale f) della trave
M positivo i (f)	Valore del momento resistente positivo all' estremità iniziale i (finale f) della trave
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M-i M+f	Taglio generato dai momenti resistenti negativo i e positivo f
V M+i M-f	Taglio generato dai momenti resistenti positivo i e negativo f
V _{Ed, min}	Valore di taglio minimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
V _{Ed, max}	Valore di taglio massimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
V _{r1}	Valore di taglio come da formula 7.4.1 per armatura diagonale (solo per CD "A")

As	Area singolo ordine armature diagonali come da formula 7.4.2 (solo per CD "A")
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Per le verifiche a taglio ciclico di travi e pilastri esistenti è presente una tabella con i simboli di seguito descritti:

Trave/Pilastro	Numero identificativo dell'elemento D2 trave/pilastro
V. SLV	Codice relativo all'esito delle verifiche
Nodo	Numero identificativo del nodo di verifica
Ver. VC	Fattore di sicurezza nei confronti della verifica a taglio ciclico (verificato se < 1.00)
Direz.	Direzione di verifica
N fr	Valore di sforzo normale calcolato con fattore di comportamento fragile
V fr	Valore di taglio calcolato con fattore di comportamento fragile
M fr	Valore di momento calcolato con fattore di comportamento fragile
N dutt	Valore di sforzo normale calcolato con fattore di comportamento duttile
LV	Lunghezza di taglio
Mud,pl	Parte plastica della domanda di duttilità
V cic	Resistenza a taglio in condizioni cicliche (C8.7.2.8)
Cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

Per le verifiche alle T.A. di pilastri e travi è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)
M_T Z P P	Numero della travata, quota media pilastrata iniziale e finale (nodo in assenza di pilastrata)
Pilas. Trave	o numero identificativo dell'elemento D2
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m); nella terza riga viene riportato il valore delle snellezze in direzione 2-2 e 3-3
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Quota	Ascissa del punto di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Armat. long.	Numero e diametro dei ferri di armatura longitudinale: ferri di vertice + ferri di lato (come da fig. precedente)
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup	Area di armatura longitudinale posta all'estradosso della trave
Sc max	Massima tensione di compressione del calcestruzzo
Sc med	Massima tensione media di compressione del calcestruzzo
Sf max	Tensione massima nell'acciaio
staffe	Vengono riportati i dati del tratto di staffatura in cui cade la sezione di verifica; in particolare: numero dei bracci, diametro, passo, lunghezza tratto
Tau max	Tensione massima tangenziale nel cls
Rif. comb	Combinazioni in cui si generano i seguenti valori di tensione: Sc max, Sc med, Sf max, Tau max
AfV	area dell'armatura atta ad assorbire le azioni di taglio
AfT	area dell'armatura atta ad assorbire le azioni di torsione
Scorr. P	Scorrimento dei piegati
Af long.	Area del ferro longitudinale aggiuntivo per assorbire la torsione

							M T= 28	Z=575.1	P=7	P=14			
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
		cm									L=cm		
44	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.05	0.65	0.69	2d12/10 L=8	69,50,50	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.08	0.27	0.65	0.69	2d12/10 L=8	9,50,50	
55	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.28	0.61	0.64	2d12/10 L=107	9,50,50	
	s=5,m=7	107.2	0.99	9.0	18.1	18.1	0.08	0.84	0.61	0.63	2d12/10 L=107	9,50,50	
50	ok,ok	0.0	0.78	9.0	18.1	18.1	0.06	0.61	0.47	0.70	2d10/10 L=108	9,50,50	
	s=6,m=7	107.9	0.78	13.6	18.1	18.1	0.06	0.68	0.46	0.68	2d10/10 L=108	9,50,50	
57	ok,ok	0.0	0.78	13.6	18.1	9.0	0.06	0.68	0.42	0.64	2d10/10 L=41	9,50,48	
	s=6,m=7	41.5	0.78	13.6	18.1	9.0	0.06	0.74	0.42	0.63	2d10/10 L=41	9,50,48	
48	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.40	0.65	0.83	2d10/10 L=149	9,48,48	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.50	0.64	0.82	2d10/10 L=149	9,48,48	

46	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.42	0.58	0.75	2d10/10 L=24	9,48,48	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.43	0.58	0.75	2d10/10 L=24	9,48,48	
56	ok,ok	0.0	0.80	18.1	18.1	19.4	0.04	0.44	0.54	0.72	2d10/10 L=125	9,62,62	
	s=8,m=7	125.1	0.80	18.1	18.1	19.5	0.04	0.44	0.54	0.72	2d10/10 L=125	9,63,63	
45	ok,ok	0.0	0.80	18.1	18.1	19.5	0.04	0.44	0.54	0.72	2d10/10 L=125	9,49,49	
	s=8,m=7	125.1	0.80	18.1	18.1	19.4	0.04	0.44	0.54	0.72	2d10/10 L=125	9,44,44	
61	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.43	0.58	0.75	2d10/10 L=24	9,30,30	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.42	0.58	0.75	2d10/10 L=24	9,30,30	
47	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.50	0.64	0.82	2d10/10 L=149	9,30,30	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.40	0.65	0.83	2d10/10 L=149	9,30,30	
49	ok,ok	0.0	0.78	13.6	18.1	9.0	0.06	0.74	0.42	0.63	2d10/10 L=41	9,36,30	
	s=6,m=7	41.5	0.78	13.6	18.1	9.0	0.06	0.68	0.42	0.64	2d10/10 L=41	9,36,30	
62	ok,ok	0.0	0.78	13.6	18.1	18.1	0.06	0.68	0.46	0.68	2d10/10 L=108	9,36,36	
	s=6,m=7	107.9	0.78	9.0	18.1	18.1	0.06	0.61	0.47	0.70	2d10/10 L=108	9,36,36	
51	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.84	0.61	0.63	2d12/10 L=107	9,36,36	
	s=5,m=7	107.2	0.99	9.0	18.1	18.1	0.08	0.28	0.61	0.64	2d12/10 L=107	9,36,36	
63	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.27	0.65	0.69	2d12/10 L=8	9,36,36	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.15	0.05	0.65	0.69	2d12/10 L=8	63,36,36	
M T= 31 Z=575.1 P=6 P=13													
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
64	ok,ok	0.0	0.99	9.0	18.1	18.1	0.15	0.03	0.71	0.82	2d12/10 L=8	69,50,50	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.08	0.46	0.71	0.82	2d12/10 L=8	9,50,50	
72	ok,ok	0.0	0.99	13.6	18.1	18.1	0.09	0.32	0.66	0.72	2d12/10 L=107	9,50,50	
	s=5,m=7	107.2	0.99	18.1	18.1	18.1	0.10	0.74	0.65	0.71	2d12/10 L=107	9,50,50	
70	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.54	0.50	0.79	2d10/10 L=108	9,34,50	
	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.88	0.50	0.77	2d10/10 L=108	9,34,50	
74	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.89	0.44	0.68	2d10/10 L=41	9,50,50	
	s=6,m=7	41.5	0.97	22.6	18.1	9.0	0.08	0.78	0.43	0.67	2d10/10 L=41	9,50,50	
68	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.69	0.68	0.86	2d10/10 L=149	9,50,50	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.87	0.66	0.85	2d10/10 L=149	9,50,50	
66	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.73	0.61	0.77	2d10/10 L=24	9,50,50	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.75	0.60	0.77	2d10/10 L=24	9,50,50	
73	ok,ok	0.0	0.80	18.1	18.1	19.1	0.04	0.76	0.52	0.71	2d10/10 L=125	9,62,62	
	s=8,m=7	125.1	0.80	18.1	18.1	19.2	0.04	0.76	0.52	0.71	2d10/10 L=125	9,63,63	
65	ok,ok	0.0	0.80	18.1	18.1	19.2	0.04	0.76	0.52	0.71	2d10/10 L=125	9,49,49	
	s=8,m=7	125.1	0.80	18.1	18.1	19.1	0.04	0.76	0.52	0.71	2d10/10 L=125	9,44,44	
75	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.75	0.60	0.77	2d10/10 L=24	9,36,36	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.73	0.61	0.77	2d10/10 L=24	9,36,36	
67	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.87	0.66	0.85	2d10/10 L=149	9,36,36	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.69	0.68	0.86	2d10/10 L=149	9,36,36	
69	ok,ok	0.0	0.97	22.6	18.1	9.0	0.08	0.78	0.43	0.67	2d10/10 L=41	9,36,36	
	s=6,m=7	41.5	0.78	18.1	18.1	9.0	0.07	0.89	0.44	0.68	2d10/10 L=41	9,36,36	
76	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.88	0.50	0.77	2d10/10 L=108	9,52,36	
	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.54	0.50	0.79	2d10/10 L=108	9,52,36	
71	ok,ok	0.0	0.99	18.1	18.1	18.1	0.10	0.74	0.65	0.71	2d12/10 L=107	9,36,36	
	s=5,m=7	107.2	0.99	13.6	18.1	18.1	0.09	0.32	0.66	0.72	2d12/10 L=107	9,36,36	
77	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.46	0.71	0.82	2d12/10 L=8	9,36,36	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.15	0.03	0.71	0.82	2d12/10 L=8	63,36,36	
M T= 32 Z=575.1 P=5 P=12													
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
78	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.02	0.72	0.83	2d12/10 L=8	68,50,50	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.08	0.47	0.71	0.83	2d12/10 L=8	9,50,50	
86	ok,ok	0.0	0.99	13.6	18.1	18.1	0.09	0.34	0.66	0.73	2d12/10 L=107	9,50,50	
	s=5,m=7	107.2	0.99	18.1	18.1	18.1	0.10	0.77	0.65	0.71	2d12/10 L=107	9,50,50	
84	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.55	0.51	0.79	2d10/10 L=108	9,34,50	
	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.91	0.50	0.78	2d10/10 L=108	9,34,50	
88	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.92	0.44	0.68	2d10/10 L=41	9,50,50	
	s=6,m=7	41.5	0.97	22.6	18.1	9.0	0.08	0.81	0.44	0.68	2d10/10 L=41	9,50,50	
82	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.71	0.68	0.86	2d10/10 L=149	9,50,50	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.90	0.67	0.85	2d10/10 L=149	9,50,50	
80	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.75	0.61	0.77	2d10/10 L=24	9,50,50	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.78	0.61	0.77	2d10/10 L=24	9,50,50	
87	ok,ok	0.0	0.80	18.1	18.1	19.1	0.04	0.79	0.52	0.71	2d10/10 L=125	9,62,62	
	s=8,m=7	125.1	0.80	18.1	18.1	19.2	0.04	0.79	0.52	0.71	2d10/10 L=125	9,63,63	
79	ok,ok	0.0	0.80	18.1	18.1	19.2	0.04	0.79	0.52	0.71	2d10/10 L=125	9,49,49	
	s=8,m=7	125.1	0.80	18.1	18.1	19.1	0.04	0.79	0.52	0.71	2d10/10 L=125	9,44,44	
89	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.78	0.61	0.77	2d10/10 L=24	9,36,36	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.75	0.61	0.77	2d10/10 L=24	9,36,36	
81	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.90	0.67	0.85	2d10/10 L=149	9,36,36	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.71	0.68	0.86	2d10/10 L=149	9,36,36	
83	ok,ok	0.0	0.97	22.6	18.1	9.0	0.08	0.81	0.44	0.68	2d10/10 L=41	9,36,36	
	s=6,m=7	41.5	0.78	18.1	18.1	9.0	0.07	0.92	0.44	0.68	2d10/10 L=41	9,36,36	
90	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.91	0.50	0.78	2d10/10 L=108	9,52,36	

	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.55	0.51	0.79	2d10/10 L=108	9,52,36	
85	ok,ok	0.0	0.99	18.1	18.1	18.1	0.10	0.77	0.65	0.71	2d12/10 L=107	9,36,36	
	s=5,m=7	107.2	0.99	13.6	18.1	18.1	0.09	0.34	0.66	0.73	2d12/10 L=107	9,36,36	
91	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.47	0.71	0.83	2d12/10 L=8	9,36,36	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.15	0.02	0.72	0.83	2d12/10 L=8	74,36,36	
M T= 33 Z=575.1 P=4 P=11													
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
92	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.02	0.72	0.83	2d12/10 L=8	88,50,50	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.08	0.47	0.71	0.83	2d12/10 L=8	9,50,50	
100	ok,ok	0.0	0.99	13.6	18.1	18.1	0.09	0.34	0.66	0.72	2d12/10 L=107	9,50,50	
	s=5,m=7	107.2	0.99	18.1	18.1	18.1	0.10	0.77	0.65	0.71	2d12/10 L=107	9,50,50	
98	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.55	0.51	0.79	2d10/10 L=108	9,34,50	
	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.91	0.50	0.78	2d10/10 L=108	9,34,50	
102	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.92	0.44	0.68	2d10/10 L=41	9,50,50	
	s=6,m=7	41.5	0.97	22.6	18.1	9.0	0.08	0.81	0.43	0.68	2d10/10 L=41	9,50,50	
96	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.71	0.68	0.86	2d10/10 L=149	9,50,50	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.90	0.67	0.85	2d10/10 L=149	9,50,50	
94	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.75	0.61	0.77	2d10/10 L=24	9,50,50	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.78	0.60	0.77	2d10/10 L=24	9,50,50	
101	ok,ok	0.0	0.80	18.1	18.1	19.1	0.04	0.79	0.52	0.71	2d10/10 L=125	9,62,62	
	s=8,m=7	125.1	0.80	18.1	18.1	19.2	0.04	0.79	0.52	0.71	2d10/10 L=125	9,63,63	
93	ok,ok	0.0	0.80	18.1	18.1	19.2	0.04	0.79	0.52	0.71	2d10/10 L=125	9,49,49	
	s=8,m=7	125.1	0.80	18.1	18.1	19.1	0.04	0.79	0.52	0.71	2d10/10 L=125	9,44,44	
103	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.78	0.60	0.77	2d10/10 L=24	9,36,36	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.75	0.61	0.77	2d10/10 L=24	9,36,36	
95	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.90	0.67	0.85	2d10/10 L=149	9,36,36	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.71	0.68	0.86	2d10/10 L=149	9,36,36	
97	ok,ok	0.0	0.97	22.6	18.1	9.0	0.08	0.81	0.43	0.68	2d10/10 L=41	9,36,36	
	s=6,m=7	41.5	0.78	18.1	18.1	9.0	0.07	0.92	0.44	0.68	2d10/10 L=41	9,36,36	
104	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.91	0.50	0.78	2d10/10 L=108	9,52,36	
	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.55	0.51	0.79	2d10/10 L=108	9,52,36	
99	ok,ok	0.0	0.99	18.1	18.1	18.1	0.10	0.77	0.65	0.71	2d12/10 L=107	9,36,36	
	s=5,m=7	107.2	0.99	13.6	18.1	18.1	0.09	0.34	0.66	0.72	2d12/10 L=107	9,36,36	
105	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.47	0.71	0.83	2d12/10 L=8	9,36,36	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.15	0.02	0.72	0.83	2d12/10 L=8	78,36,36	
M T= 34 Z=575.1 P=3 P=10													
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
106	ok,ok	0.0	0.99	9.0	18.1	18.1	0.15	0.03	0.72	0.83	2d12/10 L=8	89,58,50	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.08	0.47	0.72	0.83	2d12/10 L=8	9,58,50	
114	ok,ok	0.0	0.99	13.6	18.1	18.1	0.09	0.32	0.66	0.72	2d12/10 L=107	11,50,50	
	s=5,m=7	107.2	0.99	18.1	18.1	18.1	0.10	0.76	0.66	0.71	2d12/10 L=107	11,50,50	
112	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.55	0.51	0.79	2d10/10 L=108	11,32,50	
	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.90	0.50	0.78	2d10/10 L=108	9,32,50	
116	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.91	0.43	0.68	2d10/10 L=41	11,50,50	
	s=6,m=7	41.5	0.97	22.6	18.1	9.0	0.08	0.80	0.43	0.68	2d10/10 L=41	11,50,50	
110	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.70	0.68	0.86	2d10/10 L=149	11,50,50	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.89	0.66	0.85	2d10/10 L=149	9,50,50	
108	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.74	0.60	0.77	2d10/10 L=24	9,50,50	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.77	0.60	0.77	2d10/10 L=24	9,50,50	
115	ok,ok	0.0	0.80	18.1	18.1	19.1	0.04	0.78	0.52	0.71	2d10/10 L=125	9,62,62	
	s=8,m=7	125.1	0.80	18.1	18.1	19.2	0.04	0.78	0.52	0.71	2d10/10 L=125	9,63,63	
107	ok,ok	0.0	0.80	18.1	18.1	19.2	0.04	0.78	0.52	0.71	2d10/10 L=125	9,49,49	
	s=8,m=7	125.1	0.80	18.1	18.1	19.1	0.04	0.78	0.52	0.71	2d10/10 L=125	9,44,44	
117	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.77	0.60	0.77	2d10/10 L=24	9,36,36	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.74	0.60	0.77	2d10/10 L=24	9,36,36	
109	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.89	0.66	0.85	2d10/10 L=149	9,36,36	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.70	0.68	0.86	2d10/10 L=149	11,36,36	
111	ok,ok	0.0	0.97	22.6	18.1	9.0	0.08	0.80	0.43	0.68	2d10/10 L=41	11,36,36	
	s=6,m=7	41.5	0.78	18.1	18.1	9.0	0.07	0.91	0.43	0.68	2d10/10 L=41	11,36,36	
118	ok,ok	0.0	0.78	18.1	18.1	9.0	0.07	0.90	0.50	0.78	2d10/10 L=108	9,46,36	
	s=6,m=7	107.9	0.78	18.1	18.1	9.0	0.07	0.55	0.51	0.79	2d10/10 L=108	11,46,36	
113	ok,ok	0.0	0.99	18.1	18.1	18.1	0.10	0.76	0.66	0.71	2d12/10 L=107	11,36,36	
	s=5,m=7	107.2	0.99	13.6	18.1	18.1	0.09	0.32	0.66	0.72	2d12/10 L=107	11,36,36	
119	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.47	0.72	0.83	2d12/10 L=8	9,44,36	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.08	0.03	0.72	0.83	2d12/10 L=8	83,44,36	
M T= 35 Z=575.1 P=2 P=9													
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb	
120	ok,ok	0.0	0.99	9.0	18.1	18.1	0.15	0.03	0.77	0.64	2d12/10 L=8	88,32,46	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.08	0.21	0.77	0.64	2d12/10 L=8	11,32,46	
128	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.23	0.56	0.59	2d12/10 L=107	11,52,46	
	s=5,m=7	107.2	0.99	9.0	18.1	18.1	0.08	0.61	0.56	0.58	2d12/10 L=107	11,52,46	
126	ok,ok	0.0	0.78	9.0	18.1	9.0	0.06	0.44	0.43	0.65	2d10/10 L=108	11,52,46	
	s=6,m=7	107.9	0.78	9.0	18.1	9.0	0.06	0.70	0.43	0.63	2d10/10 L=108	11,52,46	

130	ok,ok	0.0	0.78	9.0	18.1	9.0	0.06	0.72	0.40	0.58	2d10/10 L=41	11,46,46	
	s=6,m=7	41.5	0.78	9.0	18.1	9.0	0.06	0.76	0.39	0.58	2d10/10 L=41	11,46,46	
124	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.29	0.61	0.79	2d10/10 L=149	11,46,46	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.34	0.60	0.78	2d10/10 L=149	11,46,46	
122	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.29	0.55	0.71	2d10/10 L=24	11,46,46	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.29	0.55	0.71	2d10/10 L=24	11,46,46	
129	ok,ok	0.0	0.80	18.1	18.1	19.2	0.04	0.29	0.53	0.72	2d10/10 L=125	11,60,60	
	s=8,m=7	125.1	0.80	18.1	18.1	19.2	0.04	0.26	0.54	0.73	2d10/10 L=125	11,60,60	
121	ok,ok	0.0	0.80	18.1	18.1	19.2	0.04	0.26	0.54	0.73	2d10/10 L=125	11,46,46	
	s=8,m=7	125.1	0.80	18.1	18.1	19.2	0.04	0.29	0.53	0.72	2d10/10 L=125	11,46,46	
131	ok,ok	0.0	0.80	18.1	18.1	27.1	0.04	0.29	0.55	0.71	2d10/10 L=24	11,32,32	
	s=8,m=7	24.3	0.80	18.1	18.1	27.1	0.04	0.29	0.55	0.71	2d10/10 L=24	11,32,32	
123	ok,ok	0.0	0.89	18.1	18.1	27.1	0.05	0.34	0.60	0.78	2d10/10 L=149	11,32,32	
	s=7,m=7	149.4	0.89	18.1	18.1	27.1	0.05	0.29	0.61	0.79	2d10/10 L=149	11,32,32	
125	ok,ok	0.0	0.78	9.0	18.1	9.0	0.06	0.76	0.39	0.58	2d10/10 L=41	11,32,32	
	s=6,m=7	41.5	0.78	9.0	18.1	9.0	0.06	0.72	0.40	0.58	2d10/10 L=41	11,32,32	
132	ok,ok	0.0	0.78	9.0	18.1	9.0	0.06	0.70	0.43	0.63	2d10/10 L=108	11,34,32	
	s=6,m=7	107.9	0.78	9.0	18.1	9.0	0.06	0.44	0.43	0.65	2d10/10 L=108	11,34,32	
127	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.61	0.56	0.58	2d12/10 L=107	11,34,32	
	s=5,m=7	107.2	0.99	9.0	18.1	18.1	0.08	0.23	0.56	0.59	2d12/10 L=107	11,34,32	
133	ok,ok	0.0	0.99	9.0	18.1	18.1	0.08	0.21	0.77	0.64	2d12/10 L=8	11,46,32	
	s=5,m=7	36.9	0.99	9.0	18.1	18.1	0.15	0.03	0.77	0.64	2d12/10 L=8	78,46,32	
Trave			%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc			
			0.99	22.61	18.09	27.14	0.15	0.92	0.77	0.86			

STATI LIMITE D' ESERCIZIO

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:

pilastri	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).

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	cm					mm	mm	mm		mm	mm	mm	
44	0.0	7.90e-03	8.06e-03	8.49e-03	21,21,28	0.0	0.0	0.0	0,0,0	-1.11	-0.92	-0.88	19,24,27
	36.9	0.07	0.19	0.08	19,19,27	0.0	0.0	0.0	0,0,0				
45	0.0	0.12	0.37	0.13	19,19,27	0.08	0.07	0.0	19,24,0	-0.44	-0.38	-0.20	19,24,27
	125.1	0.12	0.36	0.13	19,19,27	0.08	0.07	0.0	19,24,0				
46	0.0	0.12	0.35	0.13	19,19,27	0.07	0.0	0.0	19,0,0	-0.18	-0.09	-0.09	19,24,27
	24.3	0.12	0.36	0.13	19,19,27	0.07	0.07	0.0	19,24,0				
47	0.0	0.15	0.42	0.16	19,19,27	0.09	0.08	0.08	19,24,27	1.98	1.73	1.60	19,24,27
	149.4	0.12	0.33	0.13	19,19,27	0.07	0.06	0.0	19,24,0				
48	0.0	0.12	0.33	0.13	19,19,27	0.07	0.06	0.0	19,24,0	-1.98	-1.73	-1.60	19,24,27
	149.4	0.15	0.42	0.16	19,19,27	0.09	0.08	0.08	19,24,27				
49	0.0	0.21	0.63	0.22	19,19,27	0.16	0.14	0.13	19,24,27	1.08	0.93	0.88	19,24,27
	41.5	0.19	0.58	0.20	19,19,27	0.15	0.13	0.12	19,24,27				
50	0.0	0.14	0.50	0.14	19,19,27	0.13	0.0	0.0	19,0,0	-3.73	-3.26	-2.93	19,24,27
	107.9	0.19	0.57	0.20	19,19,27	0.14	0.13	0.12	19,24,27				
51	0.0	0.22	0.71	0.23	19,19,27	0.22	0.20	0.19	19,24,27	5.34	4.43	3.97	19,24,27
	107.2	0.08	0.22	0.08	19,19,27	0.0	0.0	0.0	0,0,0				
55	0.0	0.08	0.22	0.08	19,19,27	0.0	0.0	0.0	0,0,0	-5.34	-4.43	-3.97	19,24,27
	107.2	0.22	0.71	0.23	19,19,27	0.22	0.20	0.19	19,24,27				
56	0.0	0.12	0.36	0.13	19,19,27	0.08	0.07	0.0	19,24,0	-0.44	-0.38	-0.20	19,24,27
	125.1	0.12	0.37	0.13	19,19,27	0.08	0.07	0.0	19,24,0				
57	0.0	0.19	0.58	0.20	19,19,27	0.15	0.13	0.12	19,24,27	-1.08	-0.93	-0.88	19,24,27
	41.5	0.21	0.63	0.22	19,19,27	0.16	0.14	0.13	19,24,27				
61	0.0	0.12	0.36	0.13	19,19,27	0.07	0.07	0.0	19,24,0	0.18	0.09	0.09	19,24,27
	24.3	0.12	0.35	0.13	19,19,27	0.07	0.0	0.0	19,0,0				
62	0.0	0.19	0.57	0.20	19,19,27	0.14	0.13	0.12	19,24,27	3.73	3.26	2.93	19,24,27
	107.9	0.14	0.50	0.14	19,19,27	0.13	0.0	0.0	19,0,0				
63	0.0	0.07	0.19	0.08	19,19,27	0.0	0.0	0.0	0,0,0	1.11	0.92	0.88	19,24,27
	36.9	7.90e-03	8.06e-03	8.49e-03	21,21,28	0.0	0.0	0.0	0,0,0				
64	0.0	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0	-1.94	-1.53	-1.44	19,24,27
	36.9	0.13	0.35	0.13	19,19,27	0.09	0.0	0.0	19,0,0				
65	0.0	0.21	0.63	0.22	19,19,27	0.15	0.13	0.12	19,24,27	-0.84	-0.70	-0.65	19,24,27
	125.1	0.21	0.63	0.22	19,19,27	0.15	0.13	0.12	19,24,27				
66	0.0	0.21	0.60	0.21	19,19,27	0.14	0.12	0.11	19,24,27	-0.35	-0.29	-0.27	19,24,27
	24.3	0.22	0.62	0.22	19,19,27	0.15	0.13	0.12	19,24,27				
67	0.0	0.26	0.72	0.27	19,19,27	0.18	0.15	0.14	19,24,27	3.77	3.12	2.91	19,24,27
	149.4	0.21	0.57	0.21	19,19,27	0.13	0.11	0.10	19,24,27				
68	0.0	0.21	0.57	0.21	19,19,27	0.13	0.11	0.10	19,24,27	-3.77	-3.12	-2.91	19,24,27
	149.4	0.26	0.72	0.27	19,19,27	0.18	0.15	0.14	19,24,27				
69	0.0	0.31	0.66	0.31	19,19,27	0.15	0.13	0.12	19,24,27	1.35	1.11	1.04	19,24,27
	41.5	0.30	0.75	0.30	19,19,27	0.19	0.16	0.15	19,24,27				
70	0.0	0.19	0.44	0.19	19,19,27	0.10	0.08	0.08	19,24,27	-5.61	-4.64	-4.33	19,24,27
	107.9	0.30	0.74	0.31	19,19,27	0.19	0.15	0.14	19,24,27				
71	0.0	0.30	0.62	0.30	19,19,27	0.16	0.13	0.12	19,24,27	6.62	5.52	5.11	19,24,27
	107.2	0.11	0.24	0.11	19,19,27	0.05	0.0	0.0	19,0,0				
72	0.0	0.11	0.24	0.11	19,19,27	0.05	0.0	0.0	19,0,0	-6.62	-5.52	-5.11	19,24,27
	107.2	0.30	0.62	0.30	19,19,27	0.16	0.13	0.12	19,24,27				
73	0.0	0.21	0.63	0.22	19,19,27	0.15	0.13	0.12	19,24,27	-0.84	-0.70	-0.65	19,24,27
	125.1	0.21	0.63	0.22	19,19,27	0.15	0.13	0.12	19,24,27				
74	0.0	0.30	0.75	0.30	19,19,27	0.19	0.16	0.15	19,24,27	-1.35	-1.11	-1.04	19,24,27
	41.5	0.31	0.66	0.31	19,19,27	0.15	0.13	0.12	19,24,27				
75	0.0	0.22	0.62	0.22	19,19,27	0.15	0.13	0.12	19,24,27	0.35	0.29	0.27	19,24,27
	24.3	0.21	0.60	0.21	19,19,27	0.14	0.12	0.11	19,24,27				
76	0.0	0.30	0.74	0.31	19,19,27	0.19	0.15	0.14	19,24,27	5.61	4.64	4.33	19,24,27
	107.9	0.19	0.44	0.19	19,19,27	0.10	0.08	0.08	19,24,27				
77	0.0	0.13	0.35	0.13	19,19,27	0.09	0.0	0.0	19,0,0	1.94	1.53	1.44	19,24,27
	36.9	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0				
78	0.0	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0	-2.01	-1.59	-1.49	19,24,27
	36.9	0.14	0.36	0.14	19,19,27	0.09	0.0	0.0	19,0,0				
79	0.0	0.22	0.66	0.22	19,19,27	0.16	0.13	0.12	19,24,27	-0.87	-0.72	-0.67	19,24,27
	125.1	0.22	0.65	0.22	19,19,27	0.16	0.13	0.12	19,24,27				
80	0.0	0.22	0.62	0.22	19,19,27	0.15	0.13	0.12	19,24,27	-0.37	-0.30	-0.28	19,24,27
	24.3	0.22	0.64	0.22	19,19,27	0.16	0.13	0.12	19,24,27				
81	0.0	0.27	0.75	0.27	19,19,27	0.19	0.16	0.14	19,24,27	3.91	3.23	3.01	19,24,27
	149.4	0.22	0.59	0.22	19,19,27	0.14	0.12	0.11	19,24,27				
82	0.0	0.22	0.59	0.22	19,19,27	0.14	0.12	0.11	19,24,27	-3.91	-3.23	-3.01	19,24,27

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	149.4	0.27	0.75	0.27	19,19,27	0.19	0.16	0.14	19,24,27				
83	0.0	0.32	0.68	0.32	19,19,27	0.16	0.13	0.12	19,24,27	1.40	1.15	1.08	19,24,27
	41.5	0.31	0.78	0.31	19,19,27	0.20	0.16	0.15	19,24,27				
84	0.0	0.19	0.46	0.20	19,19,27	0.10	0.09	0.08	19,24,27	-5.82	-4.80	-4.48	19,24,27
	107.9	0.31	0.77	0.32	19,19,27	0.19	0.16	0.15	19,24,27				
85	0.0	0.31	0.64	0.31	19,19,27	0.17	0.14	0.13	19,24,27	6.80	5.65	5.26	19,24,27
	107.2	0.12	0.26	0.12	19,19,27	0.05	0.0	0.0	19,0,0				
86	0.0	0.12	0.26	0.12	19,19,27	0.05	0.0	0.0	19,0,0	-6.80	-5.65	-5.26	19,24,27
	107.2	0.31	0.64	0.31	19,19,27	0.17	0.14	0.13	19,24,27				
87	0.0	0.22	0.65	0.22	19,19,27	0.16	0.13	0.12	19,24,27	-0.87	-0.72	-0.67	19,24,27
	125.1	0.22	0.66	0.22	19,19,27	0.16	0.13	0.12	19,24,27				
88	0.0	0.31	0.78	0.31	19,19,27	0.20	0.16	0.15	19,24,27	-1.40	-1.15	-1.08	19,24,27
	41.5	0.32	0.68	0.32	19,19,27	0.16	0.13	0.12	19,24,27				
89	0.0	0.22	0.64	0.22	19,19,27	0.16	0.13	0.12	19,24,27	0.37	0.30	0.28	19,24,27
	24.3	0.22	0.62	0.22	19,19,27	0.15	0.13	0.12	19,24,27				
90	0.0	0.31	0.77	0.32	19,19,27	0.19	0.16	0.15	19,24,27	5.82	4.80	4.48	19,24,27
	107.9	0.19	0.46	0.20	19,19,27	0.10	0.09	0.08	19,24,27				
91	0.0	0.14	0.36	0.14	19,19,27	0.09	0.0	0.0	19,0,0	2.01	1.59	1.49	19,24,27
	36.9	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0				
92	0.0	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0	-2.01	-1.59	-1.49	19,24,27
	36.9	0.14	0.36	0.14	19,19,27	0.09	0.0	0.0	19,0,0				
93	0.0	0.22	0.66	0.22	19,19,27	0.16	0.13	0.12	19,24,27	-0.87	-0.72	-0.67	19,24,27
	125.1	0.22	0.65	0.22	19,19,27	0.16	0.13	0.12	19,24,27				
94	0.0	0.22	0.62	0.22	19,19,27	0.15	0.13	0.12	19,24,27	-0.37	-0.30	-0.28	19,24,27
	24.3	0.22	0.64	0.22	19,19,27	0.16	0.13	0.12	19,24,27				
95	0.0	0.27	0.75	0.27	19,19,27	0.19	0.16	0.14	19,24,27	3.91	3.23	3.01	19,24,27
	149.4	0.22	0.59	0.22	19,19,27	0.14	0.12	0.11	19,24,27				
96	0.0	0.22	0.59	0.22	19,19,27	0.14	0.12	0.11	19,24,27	-3.91	-3.23	-3.01	19,24,27
	149.4	0.27	0.75	0.27	19,19,27	0.19	0.16	0.14	19,24,27				
97	0.0	0.32	0.68	0.32	19,19,27	0.16	0.13	0.12	19,24,27	1.40	1.15	1.08	19,24,27
	41.5	0.31	0.78	0.31	19,19,27	0.20	0.16	0.15	19,24,27				
98	0.0	0.19	0.46	0.20	19,19,27	0.10	0.09	0.08	19,24,27	-5.82	-4.80	-4.48	19,24,27
	107.9	0.31	0.77	0.32	19,19,27	0.19	0.16	0.15	19,24,27				
99	0.0	0.31	0.65	0.31	19,19,27	0.17	0.14	0.13	19,24,27	6.81	5.65	5.26	19,24,27
	107.2	0.12	0.26	0.12	21,19,28	0.05	0.0	0.0	19,0,0				
100	0.0	0.12	0.26	0.12	21,19,28	0.05	0.0	0.0	19,0,0	-6.81	-5.65	-5.26	19,24,27
	107.2	0.31	0.65	0.31	19,19,27	0.17	0.14	0.13	19,24,27				
101	0.0	0.22	0.65	0.22	19,19,27	0.16	0.13	0.12	19,24,27	-0.87	-0.72	-0.67	19,24,27
	125.1	0.22	0.66	0.22	19,19,27	0.16	0.13	0.12	19,24,27				
102	0.0	0.31	0.78	0.31	19,19,27	0.20	0.16	0.15	19,24,27	-1.40	-1.15	-1.08	19,24,27
	41.5	0.32	0.68	0.32	19,19,27	0.16	0.13	0.12	19,24,27				
103	0.0	0.22	0.64	0.22	19,19,27	0.16	0.13	0.12	19,24,27	0.37	0.30	0.28	19,24,27
	24.3	0.22	0.62	0.22	19,19,27	0.15	0.13	0.12	19,24,27				
104	0.0	0.31	0.77	0.32	19,19,27	0.19	0.16	0.15	19,24,27	5.82	4.80	4.48	19,24,27
	107.9	0.19	0.46	0.20	19,19,27	0.10	0.09	0.08	19,24,27				
105	0.0	0.14	0.36	0.14	19,19,27	0.09	0.0	0.0	19,0,0	2.01	1.59	1.49	19,24,27
	36.9	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0				
106	0.0	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0	-1.98	-1.57	-1.47	21,26,28
	36.9	0.14	0.36	0.14	19,19,27	0.09	0.0	0.0	19,0,0				
107	0.0	0.22	0.65	0.22	19,19,27	0.16	0.13	0.12	19,24,27	-0.86	-0.71	-0.67	19,24,27
	125.1	0.22	0.65	0.22	21,19,28	0.16	0.13	0.12	19,24,27				
108	0.0	0.21	0.62	0.22	21,19,28	0.15	0.12	0.12	19,24,27	-0.36	-0.30	-0.28	19,24,27
	24.3	0.22	0.64	0.22	21,19,28	0.16	0.13	0.12	19,24,27				
109	0.0	0.27	0.74	0.27	21,19,28	0.19	0.15	0.14	19,24,27	3.87	3.19	2.98	19,24,27
	149.4	0.21	0.58	0.22	21,19,28	0.14	0.12	0.11	19,24,27				
110	0.0	0.21	0.58	0.22	21,19,28	0.14	0.12	0.11	19,24,27	-3.87	-3.19	-2.98	19,24,27
	149.4	0.27	0.74	0.27	21,19,28	0.19	0.15	0.14	19,24,27				
111	0.0	0.31	0.67	0.32	21,19,28	0.16	0.13	0.12	19,24,27	1.39	1.14	1.06	19,24,27
	41.5	0.31	0.77	0.31	21,21,28	0.19	0.16	0.15	21,26,28				
112	0.0	0.19	0.45	0.19	21,19,28	0.10	0.09	0.08	19,24,27	-5.76	-4.75	-4.43	19,24,27
	107.9	0.31	0.76	0.31	21,19,28	0.19	0.16	0.15	19,24,27				
113	0.0	0.30	0.64	0.31	21,21,28	0.16	0.14	0.13	21,26,28	6.70	5.57	5.18	21,26,28
	107.2	0.11	0.25	0.12	21,21,28	0.05	0.0	0.0	21,0,0				
114	0.0	0.11	0.25	0.12	21,21,28	0.05	0.0	0.0	21,0,0	-6.70	-5.57	-5.18	21,26,28
	107.2	0.30	0.64	0.31	21,21,28	0.16	0.14	0.13	21,26,28				
115	0.0	0.22	0.65	0.22	21,19,28	0.16	0.13	0.12	19,24,27	-0.86	-0.71	-0.67	19,24,27
	125.1	0.22	0.65	0.22	19,19,27	0.16	0.13	0.12	19,24,27				
116	0.0	0.31	0.77	0.31	21,21,28	0.19	0.16	0.15	21,26,28	-1.39	-1.14	-1.06	19,24,27
	41.5	0.31	0.67	0.32	21,19,28	0.16	0.13	0.12	19,24,27				
117	0.0	0.22	0.64	0.22	21,19,28	0.16	0.13	0.12	19,24,27	0.36	0.30	0.28	19,24,27
	24.3	0.21	0.62	0.22	21,19,28	0.15	0.12	0.12	19,24,27				
118	0.0	0.31	0.76	0.31	21,19,28	0.19	0.16	0.15	19,24,27	5.76	4.75	4.43	19,24,27

Trave	Pos.	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb	dR	dF	dP	Rif. cmb
	107.9	0.19	0.45	0.19	21,19,28	0.10	0.09	0.08	19,24,27				
119	0.0	0.14	0.36	0.14	19,19,27	0.09	0.0	0.0	19,0,0	1.98	1.57	1.47	21,26,28
	36.9	0.01	0.01	0.01	21,21,28	0.0	0.0	0.0	0,0,0				
120	0.0	0.02	0.02	0.02	19,19,27	0.0	0.0	0.0	0,0,0	-0.82	-0.69	-0.65	21,26,28
	36.9	0.07	0.08	0.08	21,21,28	0.0	0.0	0.0	0,0,0				
121	0.0	0.09	0.18	0.09	21,21,28	0.0	0.0	0.0	0,0,0	-0.17	-0.14	-0.13	21,26,28
	125.1	0.10	0.21	0.11	21,21,28	0.0	0.0	0.0	0,0,0				
122	0.0	0.10	0.20	0.10	21,21,28	0.0	0.0	0.0	0,0,0	-0.07	-0.06	-0.06	21,26,28
	24.3	0.10	0.20	0.11	21,21,28	0.0	0.0	0.0	0,0,0				
123	0.0	0.12	0.25	0.13	21,21,28	0.0	0.0	0.0	0,0,0	0.84	0.71	0.67	21,26,28
	149.4	0.11	0.20	0.11	21,21,28	0.0	0.0	0.0	0,0,0				
124	0.0	0.11	0.20	0.11	21,21,28	0.0	0.0	0.0	0,0,0	-0.84	-0.71	-0.67	21,26,28
	149.4	0.12	0.25	0.13	21,21,28	0.0	0.0	0.0	0,0,0				
125	0.0	0.19	0.62	0.20	21,21,28	0.18	0.16	0.15	21,26,28	0.91	0.80	0.75	21,26,28
	41.5	0.18	0.58	0.19	21,21,28	0.16	0.14	0.13	21,26,28				
126	0.0	0.12	0.31	0.13	21,21,28	0.0	0.0	0.0	0,0,0	-2.82	-1.75	-1.41	21,26,28
	107.9	0.18	0.56	0.19	21,21,28	0.15	0.14	0.13	21,26,28				
127	0.0	0.19	0.48	0.20	21,21,28	0.13	0.12	0.11	21,26,28	2.80	2.12	1.90	21,26,28
	107.2	0.08	0.10	0.08	21,21,28	0.0	0.0	0.0	0,0,0				
128	0.0	0.08	0.10	0.08	21,21,28	0.0	0.0	0.0	0,0,0	-2.80	-2.12	-1.90	21,26,28
	107.2	0.19	0.48	0.20	21,21,28	0.13	0.12	0.11	21,26,28				
129	0.0	0.10	0.21	0.11	21,21,28	0.0	0.0	0.0	0,0,0	-0.17	-0.14	-0.13	21,26,28
	125.1	0.09	0.18	0.09	21,21,28	0.0	0.0	0.0	0,0,0				
130	0.0	0.18	0.58	0.19	21,21,28	0.16	0.14	0.13	21,26,28	-0.91	-0.80	-0.75	21,26,28
	41.5	0.19	0.62	0.20	21,21,28	0.18	0.16	0.15	21,26,28				
131	0.0	0.10	0.20	0.11	21,21,28	0.0	0.0	0.0	0,0,0	0.07	0.06	0.06	21,26,28
	24.3	0.10	0.20	0.10	21,21,28	0.0	0.0	0.0	0,0,0				
132	0.0	0.18	0.56	0.19	21,21,28	0.15	0.14	0.13	21,26,28	2.82	1.75	1.41	21,26,28
	107.9	0.12	0.31	0.13	21,21,28	0.0	0.0	0.0	0,0,0				
133	0.0	0.07	0.08	0.08	21,21,28	0.0	0.0	0.0	0,0,0	0.82	0.69	0.65	21,26,28
	36.9	0.02	0.02	0.02	19,19,27	0.0	0.0	0.0	0,0,0				
Trave		rRfck	rRfyk	rPfck		wR	wF	wP		dR	dF	dP	
										-6.81	-5.65	-5.26	
		0.32	0.78	0.32		0.22	0.20	0.19		6.81	5.65	5.26	