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TITLE: Relazione di calcolo predimensionamento fondazioni aerogeneratori**AVAILABLE LANGUAGE:** IT**“IMPIANTO EOLICO TERRANOVA DA SIBARI”**COMUNI DI TERRANOVA DA SIBARI, SAN DEMETRIO CORONE, SPEZZANO ALBANESE,
CORIGLIANO – ROSSANO, SANTA SOFIA D'EPIRO E TARSIA(CS)**PROGETTO DEFINITIVO****Relazione di calcolo predimensionamento fondazione aerogeneratori**

Il tecnico

Ing. Leonardo Sblendido

File: C22FSTR002WR02300_Relazione di calcolo predimensionamento fondazioni aerogeneratori

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1 Introduzione

La presente relazione descrive le ipotesi di progetto e le verifiche preliminari per le fondazioni degli aerogeneratori dell'impianto eolico proposto da Hergo Renewables S.p.A., nei territori comunali di Terranova da Sibari, San Demetrio Corone, Spezzano Albanese, Corigliano – Rossano, Santa Sofia d'Epiro e Tarsia nella provincia di Cosenza, in Calabria.

Il parco eolico è costituito da n. 31 aerogeneratori di potenza nominale singola pari a 4,5 MW per una potenza nominale complessiva pari a 139,5 MW.

L'energia elettrica prodotta sarà convogliata dall'impianto, mediante cavi interrati di tensione 30 kV, ad una prima sottostazione elettrica di trasformazione 150/30 kV (SSE), e successivamente, tramite collegamento in antenna a 150 kV su una nuova Stazione Elettrica (SE) della RTN a 380/150 kV da inserire in entra – esce sulla linea 380 kV "Laino – Rossano TE".

2 Normativa di riferimento

Le fasi di analisi e verifica della struttura sono state condotte in accordo alle seguenti disposizioni normative, per quanto applicabili in relazione al criterio di calcolo adottato dal progettista, evidenziato nel prosieguo della presente relazione:

- Legge 5 novembre 1971 n. 1086 (G. U. 21 dicembre 1971 n. 321) "Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica";
- Legge 2 febbraio 1974 n. 64 (G. U. 21 marzo 1974 n. 76) "Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche". Indicazioni progettive per le nuove costruzioni in zone sismiche a cura del Ministero per la Ricerca scientifica - Roma 1981;
- D. M. Infrastrutture Trasporti 17/01/2018 (G.U. 20/02/2018 n. 42 - Suppl. Ord. n. 8) "Aggiornamento delle Norme tecniche per le Costruzioni".

Inoltre, in mancanza di specifiche indicazioni, ad integrazione della norma precedente e per quanto con esse non in contrasto, sono state utilizzate le indicazioni contenute nelle seguenti norme:

- D. M. Infrastrutture Trasporti 14 gennaio 2008 (G.U. 4 febbraio 2008 n. 29 - Suppl. Ord.) "Norme tecniche per le Costruzioni";
- Circolare 2 febbraio 2009 n. 617 del Ministero delle Infrastrutture e dei Trasporti (G.U. 26 febbraio 2009 n. 27 – Suppl. Ord.) "Istruzioni per l'applicazione delle 'Norme Tecniche delle Costruzioni' di cui al D.M. 14 gennaio 2008".

3 Materiali Utilizzati

Tutti i materiali strutturali impiegati devono essere muniti di marcatura "CE" ed essere conformi alle prescrizioni del "REGOLAMENTO (UE) N. 305/2011 DEL PARLAMENTO EUROPEO E DEL CONSIGLIO del 9 marzo 2011", in merito ai prodotti da costruzione.

Per la realizzazione dell'opera in oggetto saranno impiegati i seguenti materiali:

MATERIALI SHELL IN C.A.									
IDENT	CARATTERISTICHE					DURABILITA'		COPRIFERRO	
Mat. N.re	Classe CLS	Classe Acciaio	Mod E Kg/cm ²	Poisson	Gamma Kg/mc	Tipo Ambientale	Tipo Armatura	Setti cm	Piastre cm
1	C35/45	B450C	323082	0.20	2500	XS4	SENS.	4.0	4.0

3.1 Modelli utilizzati in fase di calcolo

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

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

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

Per le verifiche sezionali i legami utilizzati sono:

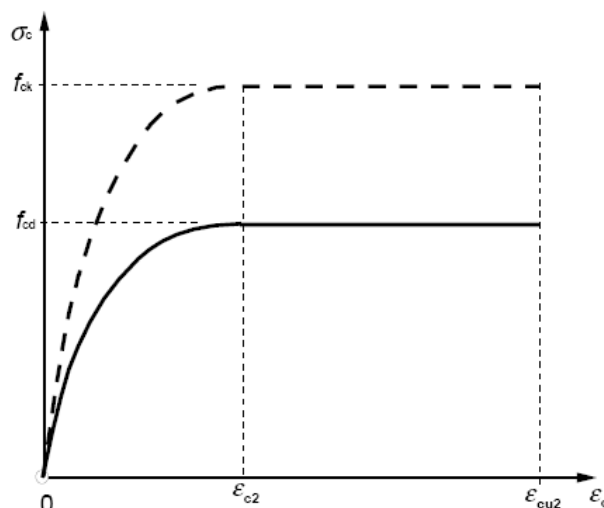


Figura 1: Legame costitutivo di progetto parabolarettangolo per il calcestruzzo.

Il valore ϵ_{cu2} nel caso di analisi non lineari sarà valutato in funzione dell'effettivo grado di confinamento esercitato dalle staffe sul nucleo di calcestruzzo.

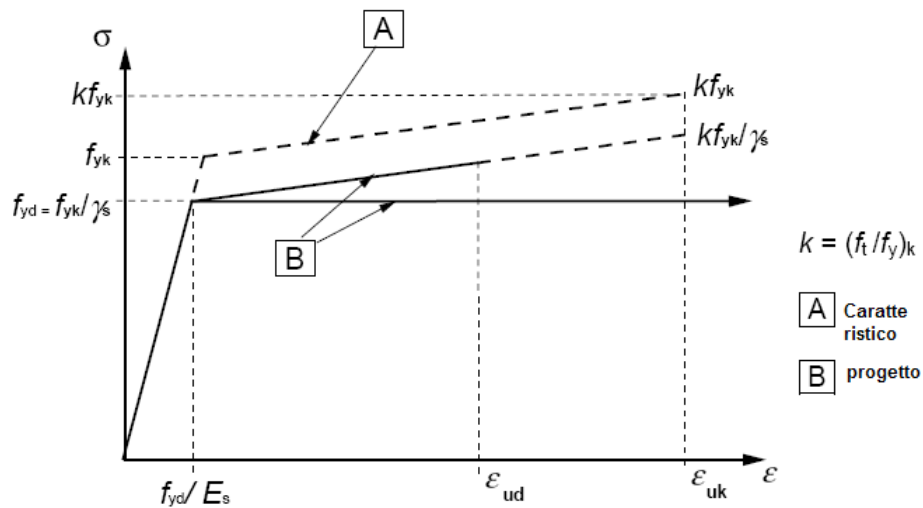


Figura 2: Legame costitutivo di progetto elastico perfettamente plastico o incrudente a duttilità limitata per l'acciaio.



4 Modello geotecnico preliminare dell'area di studio

Il modello geotecnico che qui si propone è stato desunto sulla scorta di valutazioni qualitative e su dati di letteratura e rappresenta quindi un riferimento puramente preliminare, da tarare e approfondire con indagini geognostiche appositamente programmate, volte alla definizione del profilo sismostratigrafico verticale, alla definizione della colonna litostratigrafica di riferimento e alla modellazione geotecnica dei litotipi individuati.

Nella tabella di seguito si riporta il modello geotecnico preliminare considerando le singole formazioni litologiche riportate nella cartografia geologica di riferimento. Non vengono riportate le caratteristiche degli orizzonti colluviali, che devono in ogni caso essere asportati.

Per la Formazione di Serra Palazzo risulta di utile riferimento quanto riportato nella Relazione Geologica allegata al Regolamento Urbanistico ed Edilizio Comunali di Terranova da Sibari, San Demetrio Corone, Spezzano Albanese, Corigliano – Rossano, Santa Sofia d'Epiro e Tarsia.

WTG	Descrizione terreno	ϕ (°)	C (kPa)	c_u (kPa)	γ t/m ³
STT01	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
STT02	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STT03	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
STT04	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
	÷	÷	÷	÷	÷
STT04	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STT05	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STT06	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STT07	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STT08	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STTS09	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STT10	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
STT11	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
STT12	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
	÷	÷	÷	÷	÷
STT12	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0



WTG	Descrizione terreno	ϕ (°)	C (kPa)	c_u (kPa)	γ t/m ³
STT13	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
	÷	÷	÷	÷	÷
	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
STT14	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
STT15	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
STT16	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
STT17	Sabbie da fini a grossolane, ghiaie, conglomerati e sabbioni	32	0	0	1,95
STT18	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
	÷	÷	÷	÷	÷
	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
STT19	Sabbie ed arenarie bruno-rossastre o bruno-chiare con conglomerati	33	0	0	2,0
	÷	÷	÷	÷	÷
	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
STT20	Conglomerati poligenici grossolani bruno-rossastri, con matrice sabbiosa grossolana	35	0	0	2,0
STT21	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
	÷	÷	÷	÷	÷
	Sabbie gialle o grigie, e sabbie argillose con intercalazioni arenacee o calcaree	27	5	12	1,9
STT22	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
	÷	÷	÷	÷	÷
	Sabbie gialle o grigie, e sabbie argillose con intercalazioni arenacee o calcaree	27	5	12	1,9
STT23	Sabbie gialle o grigie, e sabbie argillose con intercalazioni arenacee o calcaree	27	5	12	1,9
STT24	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
STT25	Sabbie gialle o grigie, e sabbie argillose con intercalazioni arenacee o calcaree	27	5	12	1,9
STT26	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
	÷	÷	÷	÷	÷
	Sabbie gialle o grigie, e sabbie argillose con intercalazioni arenacee o calcaree	27	5	12	1,9
STT27	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95



WTG	Descrizione terreno	ϕ (°)	C (kPa)	c_u (kPa)	γ t/m ³
STT28	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
STT29	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
STT30	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95
	÷ Sabbie gialle o grigie, e sabbie argillose con intercalazioni arenacee o calcaree	÷ 27	÷ 5	÷ 12	÷ 1,9
STT31	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	1,95

Tabella 1: Caratteristiche geotecniche di riferimento.

Laddove vengono indicate cinque unità litologiche è prevedibile la presenza di tutti e cinque in piazzola o sovrapposte nella colonna litostratigrafica.

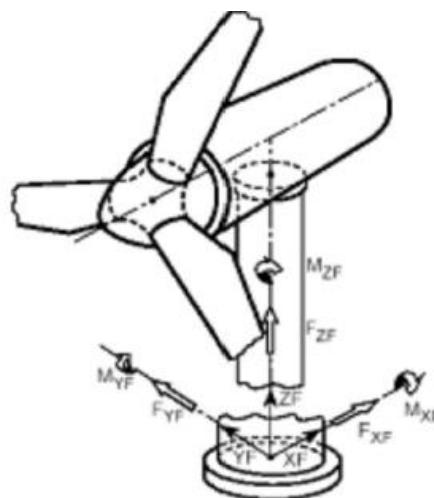
5 Analisi dei carichi

5.1 Carichi aerogeneratore

L'aerogeneratore previsto è fornito dalla società Vestas del tipo V166 o similare.

Non essendo stati forniti i dati dello scarico alla base per questo tipo di aerogeneratore si è proceduto, in via preliminare, eseguendo le analisi di verifica delle opere di fondazione utilizzando dei valori di sollecitazione tipici per strutture similari.

Viene riportata a seguire una tabella riassuntiva dei carichi considerati.



XF horizontal
 ZF vertically upwards in direction of the tower axis
 YF horizontally sideways, so that XF, YF, ZF rotate clockwise

Load factor	F_x (kN)	F_y (kN)	F_z (kN)	F_{xy} (kN)	M_x (kNm)	M_y (kNm)	M_z (kNm)	M_{xy} (kNm)
1,1	1899,37	-30,2	-8518,03	1899,61	10542,98	248324,9	848,69	248548,63

Figura 3: - Azioni di progetto

5.2 Peso plinto di fondazione

Nella fase preliminare, ai fini delle verifiche geotecniche, vengono proposti due tipi di fondazioni per cinque unità litologiche indicate nella *Tabella 1*. Il plinto di fondazione di diametro 30 m ha un volume pari a circa 1100 mc, ed il plinto di diametro 24,5 m ha un volume pari a circa 760 mc, considerando un peso del c.a. pari a 25,00 kN/mc avremo un peso totale pari a 27.500 kN e 19.000 rispettivamente.

5.3 Peso terreno

Al peso del plinto di fondazione va sommato il peso del terreno con il quale verrà coperto in quanto funge da zavorra stabilizzante dell'opera. Poichè il terreno di riempimento sarà lo stesso presente in sito riallocato dopo la fase di scavo, si considera il peso specifico caratteristico di 19 kN/mc che moltiplicato per un'altezza media di riempimento di 1,5 m ci da un carico distribuito sulla struttura del plinto di 28,50 kN/mq.



6 Analisi strutturale

6.1 Codice di calcolo utilizzato

L'analisi strutturale della fondazione è stata sviluppata mediante calcolo automatico con modello tridimensionale utilizzando il programma PRO_SAP.

Origine e Caratteristiche dei codici di calcolo

Produttore	2S.I. srl
Titolo	PRO_SAP
Versione	v23.6.1
Nro Licenza	34981

Ragione sociale completa del produttore del software:

2S.I. Software e Servizi per l'Ingegneria S.r.l.

Via Garibaldi n°90

44121 – Ferrara (FE)

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/>

Il metodo di verifica della sicurezza adottato è quello degli Stati Limite (SL) che prevede due insiemi di verifiche rispettivamente per gli stati limite ultimi S.L.U. e gli stati limite di esercizio S.L.E..

La sicurezza viene quindi garantita progettando i vari elementi resistenti in modo da assicurare che la loro resistenza di calcolo sia sempre maggiore delle corrispondente domanda in termini di azioni di calcolo.

Le norme precisano che la sicurezza e le prestazioni di una struttura o di una parte di essa devono essere valutate in relazione all'insieme degli stati limite che verosimilmente si possono verificare durante la vita normale.

Prescrivono inoltre che debba essere assicurata una robustezza nei confronti di azioni eccezionali.

Le prestazioni della struttura e la vita nominale sono riportati nei successivi tabulati di calcolo della struttura.

La sicurezza e le prestazioni saranno garantite verificando gli opportuni stati limite definiti di concerto al Committente in funzione dell'utilizzo della struttura, della sua vita nominale e di quanto



stabilito dalle norme di cui al D.M. 17/01/2018 e successive modifiche ed integrazioni.

In particolare si è verificata:

la sicurezza nei riguardi degli stati limite ultimi (S.L.U.) che possono provocare eccessive deformazioni permanenti, crolli parziali o globali, dissesti, che possono compromettere l'incolumità delle persone e/o la perdita di beni, provocare danni ambientali e sociali, mettere fuori servizio l'opera. Per le verifiche sono stati utilizzati i coefficienti parziali relativi alle azioni ed alle resistenze dei materiali in accordo a quanto previsto dal D.M. 17/01/2018 per i vari tipi di materiale. I valori utilizzati sono riportati nel fascicolo delle elaborazioni numeriche allegate;

la sicurezza nei riguardi degli stati limite di esercizio (S.L.E.) che possono limitare nell'uso e nella durata l'utilizzo della struttura per le azioni di esercizio. In particolare di concerto con il committente e coerentemente alle norme tecniche si sono definiti i limiti riportati nell'allegato fascicolo delle calcolazioni;

la sicurezza nei riguardi dello stato limite del danno (S.L.D.) causato da azioni sismiche con opportuni periodi di ritorno definiti di concerto al committente ed alle norme vigenti per le costruzioni in zona sismica;

la robustezza nei confronti di opportune azioni accidentali in modo da evitare danni sproporzionati in caso di incendi, urti, esplosioni, errori umani;

Per quanto riguarda le fasi costruttive intermedie la struttura non risulta cimentata in maniera più gravosa della fase finale.

6.2 Modello di calcolo

Il modello della struttura viene creato automaticamente dal codice di calcolo, individuando i vari elementi strutturali e fornendo le loro caratteristiche geometriche e meccaniche.

Viene definita un'opportuna numerazione degli elementi (nodi, aste, shell) costituenti il modello, al fine di individuare celermente ed univocamente ciascun elemento.

Qui di seguito è fornita una rappresentazione grafica dettagliata della discretizzazione operata con evidenziazione dei nodi e degli elementi.

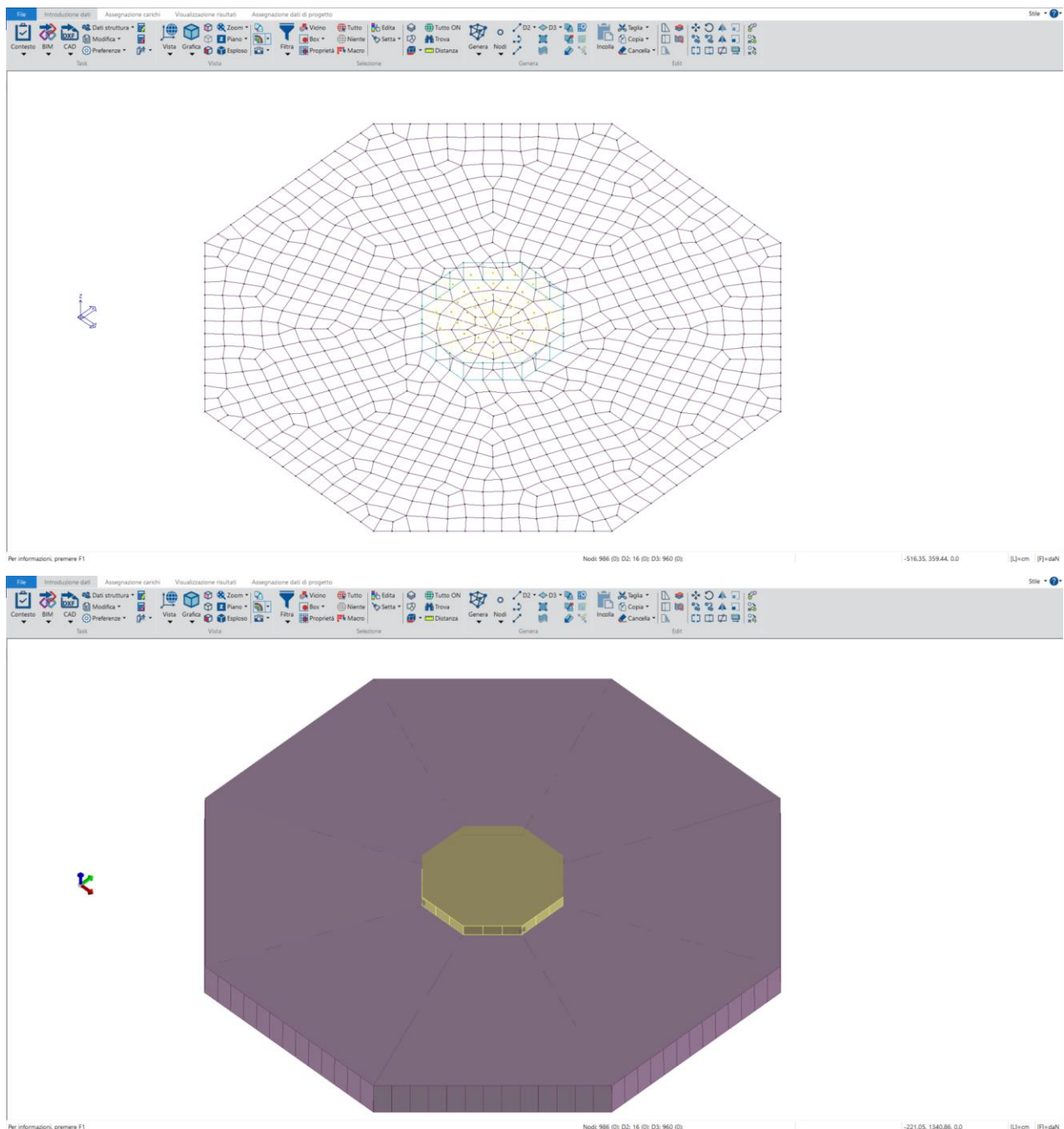


Figura 4: Discretizzazione mediante elementi shell della fondazione.

Non avendo a disposizione dati specifici sui suoli che supporteranno le tensioni indotte dalle strutture, in quanto alla fase attuale non è ancora stata condotta una campagna d'indagine geotecnica, si è ipotizzata e verificata la struttura di fondazione nelle due ipotesi di fondazione diretta e su pali di sostegno.

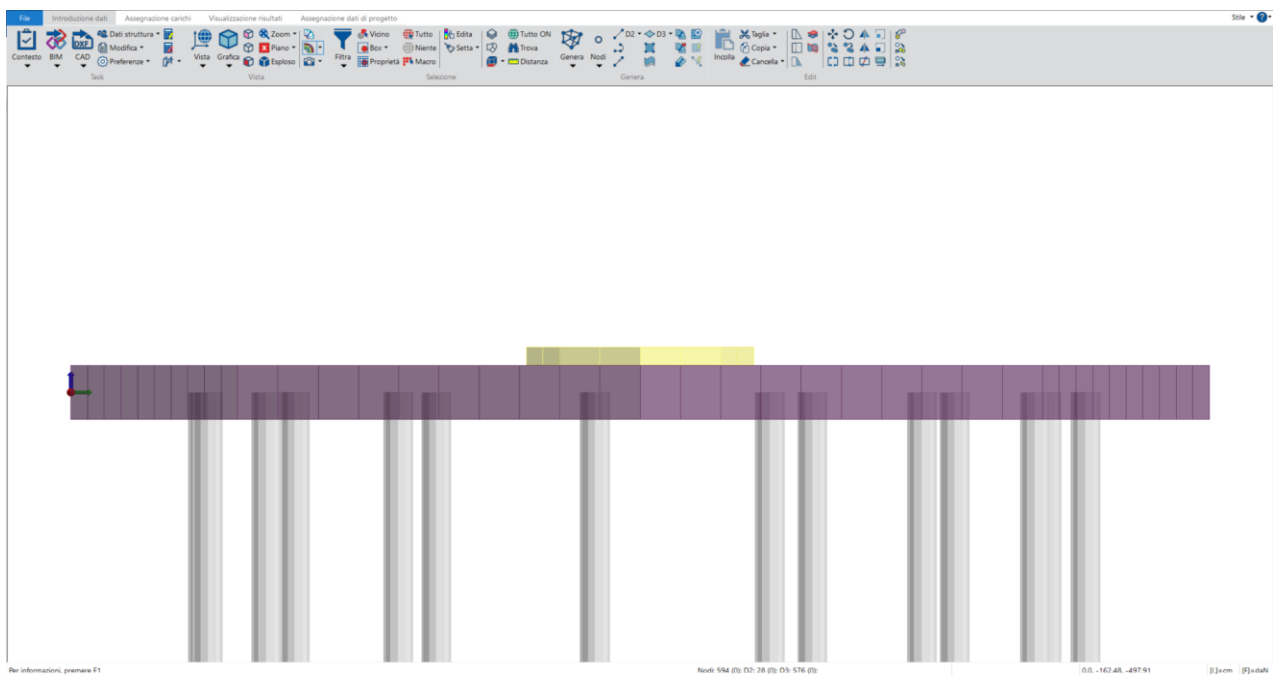
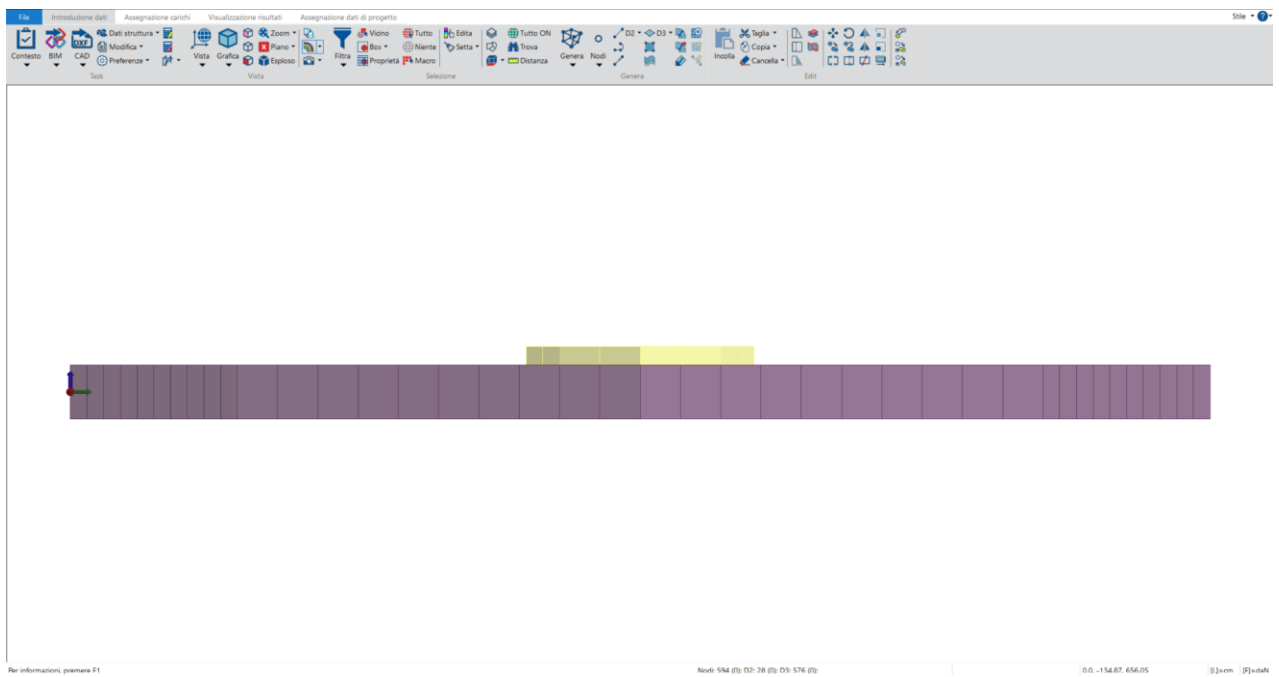


Figura 5: Modelli strutturali.



6.3 Combinazioni di calcolo

Le combinazioni di calcolo considerate sono quelle previste dal D.M. 17/01/2018 per i vari stati limite e per le varie azioni e tipologie costruttive.

In particolare, ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni per cui si rimanda al § 2.5.3 delle N.T.C. 2018. Queste sono:

- Combinazione fondamentale, generalmente impiegata per gli stati limite ultimi (S.L.U.) (2.5.1);
- Combinazione caratteristica (rara), generalmente impiegata per gli stati limite di esercizio (S.L.E.) irreversibili, da utilizzarsi nelle verifiche alle tensioni ammissibili di cui al § 2.7 (2.5.2);
- Combinazione frequente, generalmente impiegata per gli stati limite di esercizio (S.L.E.) reversibili (2.5.3);
- Combinazione quasi permanente (S.L.E.), generalmente impiegata per gli effetti a lungo termine (2.5.4);
- Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E (v. § 3.2 form. 2.5.5);
- Combinazione eccezionale, impiegata per gli stati limite ultimi connessi alle azioni eccezionali di progetto Ad (v. § 3.6 form. 2.5.6).

Nelle combinazioni per S.L.E., si intende che vengono omessi i carichi Q_{kj} che danno un contributo favorevole ai fini delle verifiche e, se del caso, i carichi G_2 .

Altre combinazioni sono da considerare in funzione di specifici aspetti (p. es. fatica, ecc.). Nelle formule sopra riportate il simbolo + vuol dire "combinato con".

I valori dei coefficienti parziali di sicurezza Y_{Gi} e Y_{Qj} sono dati in § 2.6.1, Tab. 2.6.1.

Nel caso delle costruzioni civili e industriali le verifiche agli stati limite ultimi o di esercizio devono essere effettuate per la combinazione dell'azione sismica con le altre azioni già fornita in § 2.5.3 form. 3.2.16 delle N.T.C. 2018.

Gli effetti dell'azione sismica saranno valutati tenendo conto delle masse associate ai carichi gravitazionali (form. 3.2.17).



	SLU A1 (SLV sism.) 38	SLU A1 (SLV sism.) 39	SLU A1 (SLV sism.) 40	SLU A1 (SLV sism.) 41	SLU A1 (SLV sism.) 42	SLU A1 (SLV sism.) 43	SLU A1 (SLV sism.) 44
Peso strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Peso non strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Carico da neve Qnk	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc-	-1,00	1,00	1,00	-1,00	-1,00	1,00	1,00
Dinamico SLU alfa=90 ecc+	0,30	-0,30	0,30	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc-	0,00	0,00	0,00	-0,30	0,30	-0,30	0,30
Dinamico SLD alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00

	SLU A1 (SLV sism.) 45	SLU A1 (SLV sism.) 46	SLU A1 (SLV sism.) 47	SLU A1 (SLV sism.) 48	SLU A1 (SLV sism.) 49	SLU A1 (SLV sism.) 50	SLU A1 (SLV sism.) 51
Peso strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Peso non strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Carico da neve Qnk	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc+	-0,30	-0,30	0,30	0,30	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc-	0,00	0,00	0,00	0,00	-0,30	-0,30	0,30
Dinamico SLU alfa=90 ecc+	-1,00	1,00	-1,00	1,00	-1,00	1,00	-1,00
Dinamico SLU alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00

	SLU A1 (SLV sism.) 52	SLU A1 (SLV sism.) 53	SLU A1 (SLV sism.) 54	SLU A1 (SLV sism.) 55	SLU A1 (SLV sism.) 56	SLU A1 (SLV sism.) 57	SLU A1 (SLV sism.) 58
Peso strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Peso non strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Carico da neve Qnk	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc+	0,00	-0,30	-0,30	0,30	0,30	0,00	0,00
Dinamico SLU alfa=0 ecc-	0,30	0,00	0,00	0,00	0,00	-0,30	-0,30



	SLU A1 (SLV sism.) 52	SLU A1 (SLV sism.) 53	SLU A1 (SLV sism.) 54	SLU A1 (SLV sism.) 55	SLU A1 (SLV sism.) 56	SLU A1 (SLV sism.) 57	SLU A1 (SLV sism.) 58
Dinamico SLU alfa=90 ecc+	1,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc-	0,00	-1,00	1,00	-1,00	1,00	-1,00	1,00
Dinamico SLD alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00

	SLU A1 (SLV sism.) 59	SLU A1 (SLV sism.) 60	SLE (SLD Danno sism.) 61	SLE (SLD Danno sism.) 62	SLE (SLD Danno sism.) 63	SLE (SLD Danno sism.) 64	SLE (SLD Danno sism.) 65
Peso strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Peso non strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Carico da neve Qnk	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc-	0,30	0,30	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc-	-1,00	1,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc+	0,00	0,00	-1,00	-1,00	1,00	1,00	-1,00
Dinamico SLD alfa=0 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc+	0,00	0,00	-0,30	0,30	-0,30	0,30	0,00
Dinamico SLD alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	-0,30

	SLE (SLD Danno sism.) 66	SLE (SLD Danno sism.) 67	SLE (SLD Danno sism.) 68	SLE (SLD Danno sism.) 69	SLE (SLD Danno sism.) 70	SLE (SLD Danno sism.) 71	SLE (SLD Danno sism.) 72
Peso strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Peso non strutturale	1,00	1,00	1,00	1,00	1,00	1,00	1,00
Carico da neve Qnk	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir Y-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc+	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc+	-1,00	1,00	1,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc-	0,00	0,00	0,00	-1,00	-1,00	1,00	1,00
Dinamico SLD alfa=90 ecc+	0,00	0,00	0,00	-0,30	0,30	-0,30	0,30
Dinamico SLD alfa=90 ecc-	0,30	-0,30	0,30	0,00	0,00	0,00	0,00



	SLE(freq.) 108	SLE(freq.) 109	SLE(freq.) 110	SLE(freq.) 111	SLE(freq.) 112	SLE(perm.) 113
Peso strutturale	1,00	1,00	1,00	1,00	1,00	1,00
Peso non strutturale	1,00	1,00	1,00	1,00	1,00	1,00
Carico da neve Qnk	0,00	0,00	0,00	0,00	0,00	0,00
Carico da vento dir X+	0,00	0,20	0,00	0,00	0,00	0,00
Carico da vento dir X-	0,00	0,00	0,20	0,00	0,00	0,00
Carico da vento dir Y+	0,00	0,00	0,00	0,20	0,00	0,00
Carico da vento dir Y-	0,00	0,00	0,00	0,00	0,20	0,00
Dinamico SLU alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=0 ecc-	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc+	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLU alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc+	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=0 ecc-	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc+	0,00	0,00	0,00	0,00	0,00	0,00
Dinamico SLD alfa=90 ecc-	0,00	0,00	0,00	0,00	0,00	0,00

6.4 Verifiche strutturali

La verifica degli elementi allo S.L.U. avviene col seguente procedimento: si costruiscono le combinazioni non sismiche in base al D.M. 2018, ottenendo un insieme di sollecitazioni; si combinano tali sollecitazioni con quelle dovute all'azione del sisma secondo quanto indicato nel §2.5.3, relazione (2.5.5) del D.M. 2018; per sollecitazioni semplici (flessione retta, taglio, etc.) si individuano i valori minimo e massimo con cui progettare o verificare l'elemento considerato; per sollecitazioni composte (pressoflessione retta/deviata) vengono eseguite le verifiche per tutte le possibili combinazioni e solo a seguito di ciò si individua quella che ha originato il minimo coefficiente di sicurezza.

6.4.1 Verifica a pressoflessione retta

Generato il modello strutturale ed applicati i carichi, si sono lanciate le analisi strutturali e se ne sono ricavati i risultati in termini di stato tensionale dell'opera di fondazione.

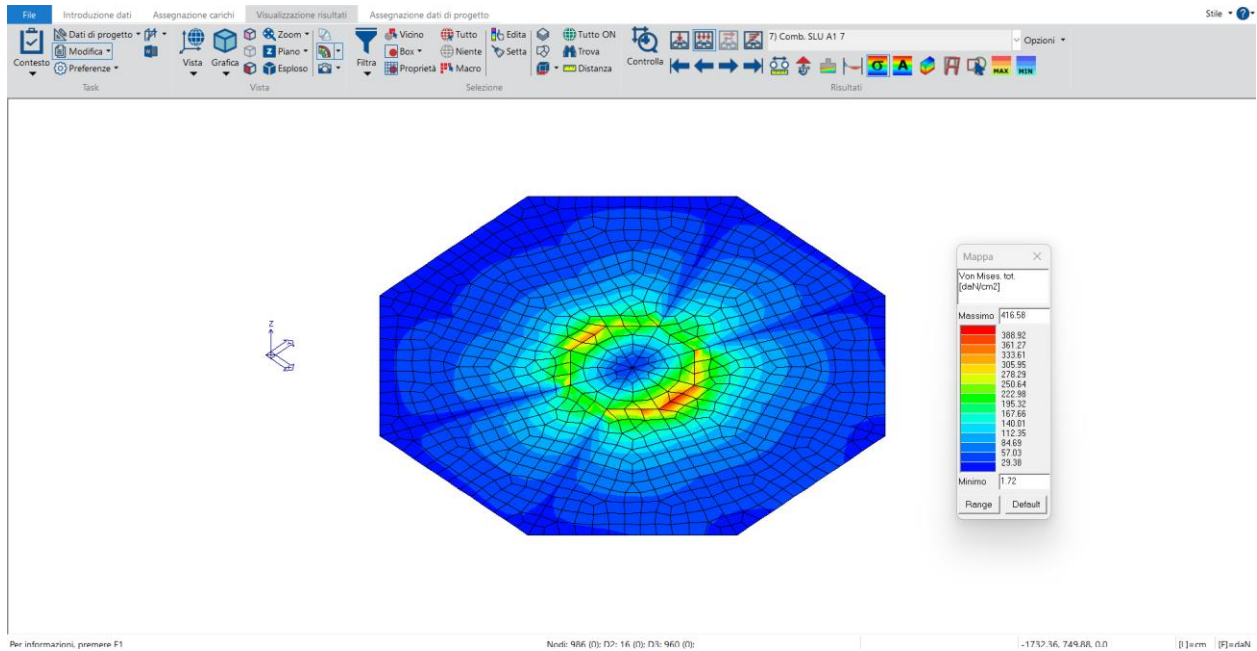


Figura 6: Tensione ideale agente sul plinto di fondazione.

Di seguito viene riportata, in forma tabellare la verifica alla pressoflessione della struttura di fondazione.

Guscio	Stato	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb	Nodo	V N/M	V V/T cls	V V/T acc	Rif. cmb
1	ok	11	0.78	0.83	0.92	74,74,78	10	0.78	0.83	0.92	69,74,78
		13	0.79	0.83	0.92	69,74,78	14	0.79	0.83	0.92	69,74,78
2	NV	6	0.79	1.00	0.85	84,70,84	12	0.79	1.00	0.85	81,70,84
		7	0.78	1.00	0.85	84,70,84	2	0.80	1.00	0.85	81,70,84
3	ok	9	0.77	0.51	0.90	84,69,75	3	0.79	0.51	0.90	65,69,75
		8	0.78	0.51	0.90	75,69,75	12	0.78	0.51	0.90	69,69,75
4	ok	10	0.78	0.80	0.83	72,74,78	9	0.77	0.80	0.83	74,74,78
		12	0.78	0.80	0.83	69,74,78	13	0.79	0.80	0.83	69,74,78
5	ok	5	0.80	0.87	0.74	69,74,81	13	0.79	0.87	0.74	69,74,81
		12	0.78	0.87	0.74	84,74,81	6	0.79	0.87	0.74	84,74,81
6	ok	4	0.80	0.83	0.92	84,74,78	14	0.79	0.83	0.92	81,74,78
		13	0.79	0.83	0.92	84,74,78	5	0.80	0.83	0.92	84,74,78
7	ok	1	0.77	0.82	0.94	81,74,78	11	0.78	0.82	0.94	69,74,78
		14	0.79	0.82	0.94	69,74,78	4	0.81	0.82	0.94	78,74,78
8	NV	12	0.78	0.87	0.81	69,78,91	8	0.76	0.64	0.78	72,78,78
		7	0.76	1.00	0.79	91,89,91					
9	ok	19	0.85	0.84	0.84	63,62,79	18	0.85	0.84	0.84	63,62,79
		21	0.81	0.84	0.84	75,62,79	22	0.79	0.84	0.84	74,62,79
10	ok	22	0.78	0.85	0.89	74,74,78	21	0.78	0.85	0.89	74,74,78
		9	0.77	0.85	0.89	75,74,78	10	0.79	0.85	0.89	75,74,78
11	ok	1	0.77	0.82	0.94	62,69,78	20	0.78	0.82	0.94	62,69,78
		23	0.78	0.82	0.94	62,69,78	11	0.78	0.82	0.94	74,69,78



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12	ok	18	0.79	0.72	0.87	63,62,63	15	0.86	0.72	0.87	74,62,63
		17	0.78	0.72	0.87	75,62,63	21	0.78	0.72	0.87	70,62,63
13	ok	21	0.77	0.77	0.81	66,69,84	16	0.78	0.77	0.81	72,69,84
		3	0.78	0.77	0.81	69,69,84	9	0.77	0.77	0.81	75,69,84
14	ok	23	0.78	0.83	0.93	62,74,78	22	0.78	0.83	0.93	62,74,78
		10	0.78	0.83	0.93	75,74,78	11	0.78	0.83	0.93	74,74,78
15	ok	20	0.78	0.83	0.93	62,74,84	19	0.86	0.83	0.93	63,74,84
		22	0.78	0.83	0.93	62,74,84	23	0.78	0.83	0.93	66,74,84
16	NV	21	0.78	0.99	0.77	62,75,78	17	0.80	1.00	0.79	65,62,79
		16	0.81	1.00	0.79	65,84,78					
17	ok	29	0.79	0.82	0.92	62,65,84	32	0.80	0.82	0.92	63,65,84
		20	0.78	0.82	0.92	62,65,84	1	0.77	0.82	0.92	62,65,84
18	ok	27	0.79	0.85	0.85	62,65,84	30	0.81	0.85	0.85	63,65,84
		31	0.84	0.85	0.85	63,65,84	28	0.80	0.85	0.85	63,65,84
19	ok	31	0.84	0.78	0.87	63,62,84	30	0.84	0.78	0.87	63,62,84
		18	0.83	0.78	0.87	63,62,84	19	0.85	0.78	0.87	63,62,84
20	ok	30	0.93	0.48	0.92	63,62,63	25	0.80	0.48	0.92	63,62,63
		15	0.90	0.48	0.92	66,62,63	18	0.80	0.48	0.92	63,62,63
21	ok	24	0.79	0.99	0.81	78,81,78	26	0.79	0.99	0.81	79,81,78
		30	0.86	0.99	0.81	63,81,78	27	0.78	0.99	0.81	79,81,78
22	ok	32	0.81	0.82	0.92	63,65,78	31	0.84	0.82	0.92	63,65,78
		19	0.86	0.82	0.92	63,65,78	20	0.78	0.82	0.92	62,65,78
23	ok	28	0.79	0.82	0.89	62,65,84	31	0.81	0.82	0.89	63,65,84
		32	0.83	0.82	0.89	63,65,84	29	0.82	0.82	0.89	63,65,84
24	NV	30	0.86	0.83	0.81	67,69,68	26	0.79	1.00	0.81	63,89,68
		25	0.78	0.67	0.78	63,69,68					
25	ok	36	0.79	0.80	0.83	69,65,88	39	0.79	0.80	0.83	62,65,88
		40	0.81	0.80	0.83	62,65,88	37	0.78	0.80	0.83	69,65,88
26	ok	39	0.81	0.80	0.89	62,65,84	27	0.78	0.80	0.89	65,65,84
		28	0.79	0.80	0.89	65,65,84	40	0.82	0.80	0.89	62,65,84
27	ok	38	0.78	0.82	0.90	69,65,78	41	0.81	0.82	0.90	62,65,78
		29	0.79	0.82	0.90	68,65,78	1	0.77	0.82	0.90	88,65,78
28	ok	33	0.83	0.76	0.81	78,85,85	35	0.83	0.76	0.81	88,85,85
		39	0.80	0.76	0.81	78,85,85	36	0.79	0.76	0.81	81,85,85
29	ok	34	0.78	0.73	0.80	68,62,79	24	0.84	0.73	0.80	63,62,79
		27	0.78	0.73	0.80	62,62,79	39	0.82	0.73	0.80	65,62,79
30	ok	40	0.81	0.82	0.91	62,65,84	28	0.79	0.82	0.91	62,65,84
		29	0.80	0.82	0.91	63,65,84	41	0.82	0.82	0.91	62,65,84
31	ok	37	0.79	0.82	0.88	69,62,84	40	0.81	0.82	0.88	62,62,84
		41	0.80	0.82	0.88	62,62,84	38	0.78	0.82	0.88	69,62,84
32	ok	35	0.86	0.57	0.80	88,65,89	34	0.78	0.54	0.88	88,65,92
		39	0.82	0.70	0.86	65,65,89					
33	ok	49	0.82	0.81	0.93	69,62,90	50	0.81	0.81	0.93	69,62,90
		47	0.83	0.81	0.93	69,62,90	46	0.83	0.81	0.93	69,62,90
34	ok	48	0.81	0.78	0.89	69,62,90	49	0.82	0.78	0.89	69,62,90
		46	0.84	0.78	0.89	69,62,90	45	0.81	0.78	0.89	69,62,90



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35	ok	48	0.82	0.86	0.89	69,62,88	36	0.79	0.86	0.89	69,62,88
		37	0.78	0.86	0.89	69,62,88	49	0.82	0.86	0.89	69,62,88
36	ok	44	0.81	0.48	0.88	66,65,63	48	0.82	0.48	0.88	69,65,63
		45	0.81	0.48	0.88	69,65,63	42	0.82	0.48	0.88	69,65,63
37	NV	43	0.79	1.00	0.90	81,63,88	33	0.81	1.00	0.90	81,63,88
		36	0.80	1.00	0.90	81,63,88	48	0.81	1.00	0.90	69,63,88
38	ok	49	0.82	0.82	0.93	69,65,90	37	0.79	0.82	0.93	69,65,90
		38	0.77	0.82	0.93	69,65,90	50	0.81	0.82	0.93	69,65,90
39	ok	50	0.81	0.82	0.92	69,62,90	38	0.78	0.82	0.92	69,62,90
		1	0.77	0.82	0.92	85,62,90	47	0.80	0.82	0.92	69,62,90
40	NV	44	0.80	0.64	0.78	62,88,88	43	0.80	1.00	0.81	69,85,79
		48	0.82	0.84	0.86	69,88,79					
41	ok	57	0.84	0.82	0.87	62,74,91	58	0.82	0.82	0.87	65,74,91
		55	0.81	0.82	0.87	75,74,91	54	0.80	0.82	0.87	78,74,91
42	ok	45	0.81	0.83	0.88	69,62,90	46	0.84	0.83	0.88	69,62,90
		58	0.82	0.83	0.88	69,62,90	57	0.83	0.83	0.88	62,62,90
43	ok	58	0.81	0.81	0.93	69,69,88	59	0.82	0.81	0.93	69,69,88
		56	0.81	0.81	0.93	84,69,88	55	0.81	0.81	0.93	78,69,88
44	ok	42	0.82	0.75	0.81	65,65,88	45	0.81	0.75	0.81	69,65,88
		57	0.87	0.75	0.81	74,65,88	52	0.91	0.74	0.81	89,65,88
45	ok	53	0.90	0.69	0.86	66,74,75	57	0.83	0.69	0.86	66,74,75
		54	0.80	0.69	0.86	62,74,75	51	0.80	0.69	0.86	74,74,75
46	ok	46	0.82	0.82	0.93	69,62,90	47	0.83	0.82	0.93	69,62,90
		59	0.82	0.82	0.93	69,62,90	58	0.81	0.82	0.93	69,62,90
47	ok	47	0.80	0.82	0.94	69,65,88	1	0.77	0.82	0.94	75,65,88
		56	0.80	0.82	0.94	62,65,88	59	0.82	0.82	0.94	69,65,88
48	NV	53	0.90	1.00	0.80	78,92,91	52	0.89	1.00	0.79	89,83,90
		57	0.90	0.95	0.76	74,71,90					
49	ok	68	0.81	0.82	0.92	78,69,88	65	0.80	0.82	0.92	84,69,88
		64	0.80	0.82	0.92	78,69,88	67	0.82	0.82	0.92	78,69,88
50	ok	67	0.82	0.84	0.87	78,69,88	64	0.81	0.84	0.87	78,69,88
		63	0.81	0.84	0.87	78,69,88	66	0.82	0.84	0.87	78,69,88
51	ok	54	0.79	0.76	0.88	78,74,88	55	0.81	0.76	0.88	72,74,88
		67	0.81	0.76	0.88	78,74,88	66	0.81	0.76	0.88	78,74,88
52	ok	51	0.81	0.44	0.93	62,74,75	54	0.80	0.44	0.93	62,74,75
		66	0.80	0.44	0.93	78,74,75	61	0.85	0.44	0.93	70,74,75
53	ok	66	0.82	0.99	0.84	78,85,91	63	0.82	0.99	0.84	78,85,91
		60	0.84	1.00	0.84	78,85,91	62	0.79	0.99	0.84	78,85,91
54	ok	55	0.82	0.81	0.94	78,69,90	56	0.81	0.81	0.94	85,69,90
		68	0.81	0.81	0.94	84,69,90	67	0.81	0.81	0.94	78,69,90
55	ok	56	0.81	0.82	0.93	65,69,88	1	0.77	0.82	0.93	74,69,88
		65	0.78	0.82	0.93	84,69,88	68	0.81	0.82	0.93	84,69,88
56	NV	61	0.80	0.66	0.79	73,65,67	66	0.81	0.80	0.84	78,65,67
		62	0.79	1.00	0.82	78,87,67					
57	ok	72	0.86	0.81	0.85	81,69,84	5	0.79	0.81	0.85	69,69,84
		6	0.80	0.81	0.85	84,69,84	71	0.81	0.81	0.85	81,69,84



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58	ok	64	0.81	0.79	0.80	78,69,85	72	0.85	0.79	0.80	81,69,85
		71	0.83	0.79	0.80	81,69,85	63	0.81	0.79	0.80	78,69,85
59	ok	73	0.84	0.82	0.93	69,74,84	4	0.81	0.82	0.93	84,74,84
		5	0.80	0.82	0.93	84,74,84	72	0.84	0.82	0.93	81,74,84
60	ok	63	0.81	0.71	0.79	78,74,91	71	0.84	0.71	0.79	81,74,91
		69	0.78	0.71	0.79	78,74,91	60	0.83	0.71	0.79	78,74,91
61	ok	71	0.84	0.80	0.81	81,81,84	6	0.80	0.80	0.81	84,81,84
		2	0.87	0.80	0.81	84,81,84	70	0.78	0.80	0.81	84,81,84
62	ok	65	0.81	0.82	0.93	84,69,88	73	0.82	0.82	0.93	81,69,88
		72	0.84	0.82	0.93	81,69,88	64	0.80	0.82	0.93	78,69,88
63	ok	1	0.77	0.82	0.92	75,74,90	4	0.80	0.82	0.92	84,74,90
		73	0.82	0.82	0.92	69,74,90	65	0.77	0.82	0.92	78,74,90
64	ok	69	0.79	0.53	0.82	84,69,90	71	0.84	0.71	0.85	69,69,91
		70	0.80	0.61	0.79	69,69,69					
65	ok	92	0.84	0.39	0.81	74,74,74	98	0.82	0.39	0.81	90,74,74
		124	0.84	0.39	0.81	90,74,74	122	0.85	0.39	0.81	74,74,74
66	ok	814	0.83	0.46	0.88	86,74,74	51	0.88	0.47	0.88	86,74,74
		61	0.80	0.46	0.88	74,74,74	98	0.84	0.46	0.88	74,74,74
67	ok	910	0.85	0.13	0.82	70,85,85	180	0.93	0.13	0.82	70,85,85
		179	0.51	0.13	0.82	70,85,85	911	0.86	0.13	0.82	70,85,85
68	ok	77	0.56	0.0	0.0	79,0,0	76	0.59	0.0	0.0	91,0,0
		904	0.18	0.0	0.0	91,0,0	903	0.06	0.0	0.0	79,0,0
69	ok	133	0.84	0.0	0.0	73,0,0	119	0.85	0.0	0.0	73,0,0
		118	0.84	0.0	0.0	73,0,0	139	0.84	0.0	0.0	73,0,0
70	ok	897	0.66	0.0	0.0	87,0,0	83	0.71	0.0	0.0	79,0,0
		82	0.77	0.0	0.0	79,0,0	898	0.64	0.0	0.0	87,0,0
71	ok	103	0.92	0.22	0.82	86,74,90	104	0.86	0.22	0.82	86,74,90
		135	0.85	0.22	0.82	74,74,90	126	0.87	0.22	0.82	70,74,90
72	ok	899	0.59	0.0	0.0	79,0,0	81	0.80	0.0	0.0	79,0,0
		80	0.78	0.0	0.0	79,0,0	900	0.48	0.0	0.0	79,0,0
73	ok	902	0.20	0.0	0.0	79,0,0	78	0.68	0.0	0.0	79,0,0
		77	0.55	0.0	0.0	79,0,0	903	0.06	0.0	0.0	79,0,0
74	ok	908	0.86	0.20	0.85	70,73,85	182	0.94	0.20	0.85	70,65,85
		181	0.81	0.20	0.85	70,73,85	909	0.87	0.20	0.85	70,73,85
75	ok	83	0.71	0.0	0.0	87,0,0	121	0.84	0.0	0.0	79,0,0
		113	0.84	0.0	0.0	81,0,0	82	0.76	0.0	0.0	89,0,0
76	ok	117	0.85	0.13	0.81	73,74,90	107	0.85	0.13	0.81	69,74,90
		130	0.85	0.13	0.81	73,74,90	132	0.86	0.13	0.81	73,74,90
77	ok	911	0.85	0.12	0.82	70,85,85	179	0.72	0.12	0.82	70,85,85
		178	0.40	0.12	0.82	86,85,85	912	0.85	0.12	0.82	70,85,85
78	ok	804	0.44	0.0	0.0	63,0,0	805	0.55	0.0	0.0	63,0,0
		84	0.76	0.0	0.0	79,0,0	97	0.60	0.0	0.0	79,0,0
79	ok	809	0.87	0.23	0.80	74,69,65	810	0.85	0.23	0.80	66,69,65
		89	0.85	0.23	0.80	73,69,65	88	0.85	0.23	0.80	73,69,65
80	ok	99	0.83	0.59	0.88	74,89,85	62	0.80	0.59	0.88	90,77,85
		60	0.88	0.59	0.88	90,89,85	145	0.84	0.59	0.88	70,89,85



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81	ok	100	0.86	0.16	0.85	70,74,85	908	0.88	0.16	0.85	70,74,85
		909	0.89	0.16	0.85	70,74,85	101	0.87	0.16	0.85	70,74,85
82	ok	93	0.46	0.0	0.0	79,0,0	97	0.56	0.0	0.0	79,0,0
		896	0.61	0.0	0.0	79,0,0	895	0.50	0.0	0.0	79,0,0
83	ok	111	0.84	0.0	0.0	73,0,0	116	0.84	0.0	0.0	69,0,0
		134	0.84	0.0	0.0	73,0,0	138	0.85	0.0	0.0	73,0,0
84	ok	807	0.85	0.16	0.80	89,69,69	808	0.84	0.16	0.80	89,69,69
		87	0.84	0.16	0.80	73,69,69	86	0.84	0.16	0.80	89,69,69
85	ok	95	0.89	0.37	0.80	76,85,85	184	0.92	0.37	0.80	70,85,85
		183	0.90	0.37	0.80	90,85,85	907	0.87	0.37	0.80	76,85,85
86	ok	114	0.83	0.0	0.0	73,0,0	74	0.82	0.0	0.0	73,0,0
		75	0.60	0.0	0.0	77,0,0	120	0.71	0.0	0.0	89,0,0
87	ok	129	0.85	0.12	0.88	70,74,90	102	0.86	0.12	0.88	70,74,90
		110	0.87	0.12	0.88	70,74,90	131	0.85	0.12	0.88	73,74,90
88	ok	115	0.85	0.0	0.0	89,0,0	111	0.84	0.0	0.0	81,0,0
		138	0.84	0.0	0.0	81,0,0	137	0.84	0.0	0.0	89,0,0
89	ok	907	0.86	0.27	0.93	70,85,85	183	0.93	0.27	0.93	70,85,85
		182	0.91	0.27	0.93	90,85,85	908	0.87	0.27	0.93	70,85,85
90	ok	84	0.75	0.0	0.0	89,0,0	85	0.84	0.0	0.0	81,0,0
		115	0.84	0.0	0.0	89,0,0	121	0.84	0.0	0.0	89,0,0
91	ok	121	0.84	0.0	0.0	89,0,0	115	0.84	0.0	0.0	89,0,0
		137	0.84	0.0	0.0	81,0,0	113	0.84	0.0	0.0	89,0,0
92	ok	88	0.85	0.14	0.80	73,74,74	89	0.85	0.14	0.80	69,74,74
		107	0.86	0.14	0.80	73,74,74	117	0.86	0.14	0.80	73,74,74
93	ok	87	0.85	0.11	0.80	73,74,74	88	0.84	0.11	0.80	69,74,74
		117	0.85	0.11	0.80	73,74,74	116	0.86	0.11	0.80	73,74,74
94	ok	118	0.83	0.0	0.0	73,0,0	913	0.84	0.0	0.0	73,0,0
		74	0.81	0.0	0.0	73,0,0	114	0.83	0.0	0.0	73,0,0
95	ok	78	0.65	0.0	0.0	89,0,0	108	0.83	0.0	0.0	81,0,0
		112	0.73	0.0	0.0	81,0,0	77	0.54	0.0	0.0	89,0,0
96	ok	90	0.89	0.22	0.80	86,65,74	91	0.84	0.22	0.80	86,65,74
		104	0.85	0.22	0.80	86,65,74	103	0.91	0.22	0.80	86,73,74
97	ok	91	0.86	0.29	0.81	86,74,74	92	0.83	0.29	0.81	86,74,74
		122	0.84	0.29	0.80	74,74,74	104	0.87	0.29	0.80	86,74,74
98	ok	107	0.86	0.16	0.81	73,74,90	103	0.90	0.16	0.81	86,74,90
		126	0.85	0.16	0.81	70,74,90	130	0.87	0.16	0.81	73,74,90
99	ok	108	0.84	0.0	0.0	89,0,0	139	0.83	0.0	0.0	89,0,0
		136	0.83	0.0	0.0	89,0,0	112	0.74	0.0	0.0	89,0,0
100	ok	81	0.78	0.0	0.0	87,0,0	109	0.84	0.0	0.0	81,0,0
		105	0.84	0.0	0.0	81,0,0	80	0.76	0.0	0.0	89,0,0
101	ok	120	0.70	0.0	0.0	89,0,0	75	0.62	0.0	0.0	91,0,0
		96	0.50	0.0	0.0	91,0,0	76	0.52	0.0	0.0	77,0,0
102	ok	105	0.84	0.0	0.0	81,0,0	106	0.84	0.0	0.0	81,0,0
		79	0.70	0.0	0.0	89,0,0	80	0.76	0.0	0.0	87,0,0
103	ok	112	0.74	0.0	0.0	89,0,0	120	0.70	0.0	0.0	89,0,0
		76	0.52	0.0	0.0	91,0,0	77	0.54	0.0	0.0	89,0,0



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104	ok	125	0.86	0.15	0.85	70,74,90	101	0.86	0.15	0.85	70,74,90
		102	0.87	0.15	0.85	70,74,90	129	0.86	0.15	0.86	70,74,90
105	ok	130	0.86	0.16	0.83	73,74,90	126	0.85	0.16	0.83	70,74,90
		146	0.86	0.16	0.83	70,74,90	143	0.87	0.16	0.83	73,74,90
106	ok	136	0.83	0.0	0.0	89,0,0	114	0.83	0.0	0.0	73,0,0
		120	0.69	0.0	0.0	89,0,0	112	0.75	0.0	0.0	89,0,0
107	ok	122	0.85	0.36	0.83	90,74,90	124	0.84	0.36	0.83	90,74,90
		123	0.85	0.36	0.83	90,74,90	140	0.85	0.36	0.83	90,74,90
108	ok	140	0.84	0.29	0.90	90,74,90	123	0.85	0.29	0.90	74,74,90
		100	0.87	0.29	0.90	74,74,90	135	0.87	0.29	0.90	90,74,90
109	ok	105	0.84	0.0	0.0	89,0,0	127	0.83	0.0	0.0	81,0,0
		128	0.84	0.0	0.0	73,0,0	106	0.84	0.0	0.0	89,0,0
110	ok	123	0.85	0.25	0.87	74,74,85	907	0.87	0.25	0.87	70,74,85
		908	0.89	0.25	0.87	70,74,85	100	0.87	0.25	0.87	74,74,85
111	ok	85	0.84	0.0	0.0	89,0,0	86	0.84	0.0	0.0	81,0,0
		111	0.84	0.0	0.0	89,0,0	115	0.85	0.0	0.0	89,0,0
112	ok	116	0.85	0.09	0.80	73,62,90	117	0.85	0.09	0.80	73,62,90
		132	0.85	0.09	0.80	73,62,90	134	0.86	0.09	0.80	73,62,90
113	ok	144	0.85	0.0	0.0	73,0,0	131	0.85	0.0	0.0	70,0,0
		133	0.85	0.0	0.0	73,0,0	142	0.84	0.0	0.0	73,0,0
114	ok	146	0.86	0.15	0.86	70,74,90	125	0.86	0.15	0.86	70,74,90
		129	0.86	0.15	0.86	70,74,90	143	0.86	0.15	0.86	73,74,90
115	ok	106	0.84	0.0	0.0	89,0,0	128	0.83	0.0	0.0	89,0,0
		139	0.83	0.0	0.0	73,0,0	108	0.84	0.0	0.0	89,0,0
116	ok	138	0.84	0.0	0.0	81,0,0	127	0.84	0.0	0.0	89,0,0
		105	0.84	0.0	0.0	89,0,0	109	0.84	0.0	0.0	89,0,0
117	ok	142	0.84	0.0	0.0	73,0,0	133	0.84	0.0	0.0	73,0,0
		139	0.85	0.0	0.0	73,0,0	128	0.84	0.0	0.0	73,0,0
118	ok	132	0.86	0.12	0.82	73,74,90	130	0.85	0.12	0.82	73,74,90
		143	0.85	0.12	0.82	73,74,90	144	0.86	0.12	0.82	73,74,90
119	ok	143	0.85	0.12	0.85	73,74,90	129	0.86	0.12	0.85	70,74,90
		131	0.86	0.12	0.85	70,74,90	144	0.85	0.12	0.85	73,74,90
120	ok	104	0.87	0.28	0.82	86,74,90	122	0.84	0.28	0.82	86,74,90
		140	0.85	0.28	0.82	74,74,90	135	0.87	0.28	0.82	74,74,90
121	ok	127	0.84	0.0	0.0	89,0,0	141	0.84	0.0	0.0	73,0,0
		142	0.84	0.0	0.0	73,0,0	128	0.85	0.0	0.0	73,0,0
122	ok	134	0.85	0.09	0.82	73,74,90	132	0.84	0.09	0.82	73,74,90
		144	0.85	0.09	0.82	73,74,90	141	0.85	0.09	0.82	73,74,90
123	ok	135	0.85	0.21	0.91	74,74,90	100	0.86	0.21	0.91	70,74,90
		101	0.88	0.21	0.91	70,74,90	125	0.87	0.21	0.91	70,74,90
124	ok	139	0.84	0.0	0.0	73,0,0	118	0.84	0.0	0.0	73,0,0
		114	0.84	0.0	0.0	73,0,0	136	0.83	0.0	0.0	89,0,0
125	ok	138	0.84	0.0	0.0	89,0,0	134	0.84	0.0	0.0	73,0,0
		141	0.84	0.0	0.0	73,0,0	127	0.85	0.0	0.0	73,0,0
126	ok	126	0.87	0.19	0.85	70,74,90	135	0.85	0.19	0.85	74,74,90
		125	0.87	0.19	0.85	70,74,90	146	0.86	0.19	0.84	70,74,90



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127	ok	124	0.85	0.42	0.82	74,74,88	98	0.82	0.47	0.81	74,74,74
		99	0.83	0.58	0.81	74,74,88					
128	ok	141	0.85	0.0	0.0	73,0,0	144	0.85	0.0	0.0	73,0,0
		142	0.85	0.0	0.0	73,0,0					
129	ok	175	0.34	0.0	0.0	73,0,0	193	0.81	0.0	0.0	73,0,0
		214	0.71	0.0	0.0	73,0,0	174	0.41	0.0	0.0	70,0,0
130	ok	210	0.80	0.55	0.82	83,69,90	150	0.80	0.55	0.82	71,69,90
		151	0.81	0.55	0.82	71,69,90	209	0.80	0.55	0.82	83,69,90
131	ok	176	0.40	0.13	0.80	73,74,74	192	0.82	0.13	0.80	73,74,74
		193	0.82	0.13	0.80	73,74,74	175	0.49	0.13	0.80	70,74,74
132	ok	189	0.85	0.0	0.0	70,0,0	228	0.85	0.0	0.0	70,0,0
		237	0.85	0.0	0.0	70,0,0	190	0.85	0.0	0.0	70,0,0
133	ok	208	0.80	0.40	0.82	83,69,85	152	0.80	0.40	0.82	71,69,85
		153	0.82	0.40	0.82	92,69,85	207	0.80	0.40	0.82	71,69,85
134	ok	215	0.83	0.0	0.0	81,0,0	211	0.74	0.0	0.0	81,0,0
		161	0.81	0.0	0.0	81,0,0	162	0.85	0.0	0.0	81,0,0
135	ok	211	0.76	0.13	0.80	81,62,70	160	0.48	0.13	0.80	81,62,70
		147	0.17	0.13	0.80	81,62,70	161	0.78	0.13	0.80	81,62,70
136	ok	213	0.89	0.27	0.81	70,69,90	263	0.84	0.27	0.81	82,69,90
		241	0.88	0.27	0.81	70,69,90	185	0.90	0.27	0.81	70,69,90
137	ok	209	0.80	0.48	0.89	83,69,85	151	0.80	0.48	0.89	76,69,85
		152	0.81	0.48	0.89	76,69,85	208	0.80	0.48	0.89	71,69,85
138	ok	69	0.92	0.48	0.83	92,69,81	70	0.78	0.48	0.83	71,69,81
		216	0.79	0.48	0.83	83,69,81	217	0.80	0.48	0.82	71,69,81
139	ok	221	0.91	0.16	0.81	82,81,81	208	0.80	0.16	0.81	83,81,81
		207	0.80	0.16	0.81	83,81,81	225	0.91	0.16	0.81	82,81,81
140	ok	173	0.22	0.12	0.81	73,65,73	212	0.49	0.12	0.81	81,65,73
		172	0.49	0.12	0.81	73,65,73	148	0.14	0.12	0.81	70,65,73
141	ok	212	0.47	0.0	0.0	89,0,0	214	0.67	0.0	0.0	73,0,0
		171	0.54	0.0	0.0	89,0,0	172	0.50	0.0	0.0	89,0,0
142	ok	174	0.28	0.0	0.0	73,0,0	214	0.74	0.0	0.0	89,0,0
		212	0.46	0.0	0.0	89,0,0	173	0.33	0.0	0.0	70,0,0
143	ok	214	0.71	0.0	0.0	89,0,0	194	0.80	0.0	0.0	89,0,0
		170	0.45	0.0	0.0	89,0,0	171	0.54	0.0	0.0	89,0,0
144	ok	236	0.83	0.0	0.0	70,0,0	257	0.83	0.0	0.0	70,0,0
		254	0.83	0.0	0.0	70,0,0	233	0.84	0.0	0.0	70,0,0
145	ok	231	0.83	0.0	0.0	73,0,0	226	0.83	0.0	0.0	77,0,0
		196	0.73	0.0	0.0	73,0,0	195	0.75	0.0	0.0	73,0,0
146	ok	190	0.84	0.0	0.0	70,0,0	237	0.84	0.0	0.0	70,0,0
		236	0.85	0.0	0.0	70,0,0	191	0.85	0.0	0.0	70,0,0
147	ok	202	0.83	0.09	0.79	81,73,73	158	0.80	0.09	0.79	81,73,73
		159	0.66	0.09	0.79	81,73,73	215	0.83	0.09	0.79	81,73,73
148	ok	183	0.92	0.51	0.83	70,74,81	185	0.88	0.51	0.83	70,74,81
		186	0.88	0.51	0.83	70,74,81	182	0.91	0.51	0.83	70,74,81
149	ok	206	0.80	0.28	0.80	71,69,65	154	0.83	0.28	0.80	77,69,65
		155	0.82	0.28	0.80	77,69,65	205	0.81	0.28	0.80	83,69,65



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150	ok	223	0.83	0.0	0.0	77,0,0	227	0.83	0.0	0.0	77,0,0
		199	0.85	0.0	0.0	77,0,0	198	0.84	0.0	0.0	77,0,0
151	ok	203	0.82	0.14	0.80	77,73,65	157	0.87	0.14	0.80	81,73,65
		158	0.83	0.14	0.80	81,73,65	202	0.82	0.14	0.80	77,73,65
152	ok	201	0.83	0.0	0.0	81,0,0	215	0.85	0.0	0.0	81,0,0
		162	0.87	0.0	0.0	81,0,0	163	0.87	0.0	0.0	81,0,0
153	ok	204	0.81	0.19	0.80	77,69,65	156	0.86	0.19	0.80	81,69,65
		157	0.86	0.19	0.80	81,69,65	203	0.82	0.19	0.80	77,69,65
154	ok	199	0.84	0.0	0.0	77,0,0	200	0.85	0.0	0.0	77,0,0
		164	0.82	0.0	0.0	77,0,0	165	0.65	0.0	0.0	77,0,0
155	ok	225	0.89	0.13	0.81	82,81,81	207	0.80	0.13	0.81	77,81,81
		206	0.80	0.13	0.81	83,81,81	235	0.89	0.13	0.81	82,81,81
156	ok	70	0.79	0.46	0.87	71,81,81	2	0.85	0.46	0.87	92,81,81
		149	0.89	0.46	0.87	92,81,81	216	0.80	0.46	0.87	83,81,81
157	ok	188	0.86	0.11	0.81	70,90,90	220	0.85	0.11	0.81	70,90,90
		228	0.86	0.11	0.81	70,90,90	189	0.87	0.11	0.81	70,90,90
158	ok	181	0.91	0.36	0.83	82,74,78	187	0.86	0.36	0.83	70,74,78
		188	0.87	0.36	0.83	70,74,78	180	0.90	0.36	0.83	70,74,78
159	ok	242	0.82	0.30	0.88	82,69,81	216	0.79	0.30	0.88	83,69,81
		210	0.81	0.30	0.88	83,69,81	240	0.85	0.30	0.88	82,69,81
160	ok	238	0.82	0.0	0.0	73,0,0	231	0.82	0.0	0.0	73,0,0
		195	0.75	0.0	0.0	73,0,0	194	0.78	0.0	0.0	73,0,0
161	ok	193	0.83	0.0	0.0	73,0,0	238	0.82	0.0	0.0	73,0,0
		194	0.78	0.0	0.0	73,0,0	214	0.68	0.0	0.0	73,0,0
162	ok	60	0.86	0.41	0.81	92,74,74	69	0.90	0.41	0.81	92,74,74
		217	0.79	0.41	0.81	71,74,74	263	0.86	0.41	0.81	82,74,74
163	ok	196	0.78	0.0	0.0	89,0,0	197	0.85	0.0	0.0	85,0,0
		167	0.23	0.0	0.0	85,0,0	168	0.17	0.0	0.0	89,0,0
164	ok	178	0.66	0.20	0.80	70,74,62	190	0.84	0.20	0.80	70,74,62
		191	0.84	0.20	0.80	70,74,62	177	0.77	0.20	0.80	70,74,62
165	ok	197	0.84	0.0	0.0	77,0,0	198	0.85	0.0	0.0	85,0,0
		166	0.45	0.0	0.0	85,0,0	167	0.24	0.0	0.0	85,0,0
166	ok	256	0.84	0.0	0.0	70,0,0	229	0.81	0.0	0.0	77,0,0
		232	0.82	0.0	0.0	77,0,0	255	0.82	0.0	0.0	77,0,0
167	ok	252	0.84	0.0	0.0	70,0,0	234	0.86	0.0	0.0	82,0,0
		229	0.81	0.0	0.0	77,0,0	256	0.84	0.0	0.0	70,0,0
168	ok	216	0.79	0.56	0.80	83,81,81	149	0.80	0.56	0.80	83,81,81
		150	0.82	0.56	0.80	83,81,81	210	0.81	0.56	0.80	83,81,81
169	ok	180	0.91	0.30	0.80	82,74,62	188	0.85	0.30	0.80	70,74,62
		189	0.86	0.30	0.80	70,74,62	179	0.89	0.30	0.80	82,74,62
170	ok	230	0.83	0.0	0.0	77,0,0	239	0.83	0.0	0.0	77,0,0
		201	0.84	0.0	0.0	77,0,0	200	0.83	0.0	0.0	77,0,0
171	ok	250	0.85	0.0	0.0	70,0,0	235	0.88	0.0	0.0	82,0,0
		234	0.88	0.0	0.0	82,0,0	252	0.85	0.0	0.0	70,0,0
172	ok	200	0.84	0.0	0.0	77,0,0	201	0.85	0.0	0.0	77,0,0
		163	0.89	0.0	0.0	81,0,0	164	0.81	0.0	0.0	81,0,0



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173	ok	235	0.87	0.11	0.81	82,81,81	206	0.80	0.11	0.81	77,81,81
		205	0.81	0.11	0.81	77,81,81	234	0.87	0.11	0.81	82,81,81
174	ok	198	0.84	0.0	0.0	77,0,0	199	0.85	0.0	0.0	77,0,0
		165	0.65	0.0	0.0	77,0,0	166	0.45	0.0	0.0	77,0,0
175	ok	195	0.78	0.0	0.0	89,0,0	196	0.78	0.0	0.0	85,0,0
		168	0.16	0.0	0.0	89,0,0	169	0.32	0.0	0.0	89,0,0
176	ok	182	0.93	0.43	0.87	70,74,81	186	0.86	0.43	0.87	70,74,81
		187	0.88	0.43	0.87	70,74,81	181	0.91	0.43	0.87	70,74,81
177	ok	186	0.87	0.14	0.82	70,90,90	218	0.87	0.14	0.82	70,90,90
		219	0.88	0.14	0.82	70,90,90	187	0.88	0.14	0.82	70,90,90
178	ok	179	0.85	0.25	0.80	70,74,62	189	0.85	0.25	0.80	70,74,62
		190	0.85	0.25	0.80	70,74,62	178	0.89	0.25	0.80	82,74,62
179	ok	227	0.83	0.0	0.0	77,0,0	230	0.84	0.0	0.0	77,0,0
		200	0.85	0.0	0.0	77,0,0	199	0.84	0.0	0.0	77,0,0
180	ok	234	0.85	0.0	0.0	82,0,0	205	0.81	0.0	0.0	77,0,0
		204	0.81	0.0	0.0	77,0,0	229	0.81	0.0	0.0	77,0,0
181	ok	207	0.80	0.33	0.80	83,69,65	153	0.81	0.33	0.80	77,69,65
		154	0.81	0.33	0.80	92,69,65	206	0.81	0.33	0.80	83,69,65
182	ok	248	0.86	0.0	0.0	82,0,0	225	0.90	0.0	0.0	82,0,0
		235	0.90	0.0	0.0	82,0,0	250	0.86	0.0	0.0	82,0,0
183	ok	215	0.84	0.08	0.80	81,62,70	159	0.62	0.08	0.80	81,62,70
		160	0.47	0.08	0.80	81,62,70	211	0.76	0.08	0.80	81,62,70
184	ok	194	0.81	0.0	0.0	89,0,0	195	0.78	0.0	0.0	89,0,0
		169	0.31	0.0	0.0	89,0,0	170	0.45	0.0	0.0	89,0,0
185	ok	205	0.81	0.23	0.80	77,69,65	155	0.85	0.23	0.80	81,69,65
		156	0.84	0.23	0.80	77,69,65	204	0.81	0.23	0.80	77,69,65
186	ok	184	0.85	0.62	0.81	92,74,81	213	0.90	0.62	0.81	82,74,81
		185	0.90	0.62	0.81	82,74,81	183	0.92	0.62	0.81	70,74,81
187	ok	177	0.51	0.17	0.80	70,74,74	191	0.83	0.17	0.80	70,74,74
		192	0.83	0.17	0.80	70,74,74	176	0.60	0.17	0.80	70,74,74
188	ok	226	0.83	0.0	0.0	77,0,0	224	0.83	0.0	0.0	77,0,0
		197	0.83	0.0	0.0	77,0,0	196	0.73	0.0	0.0	73,0,0
189	ok	187	0.86	0.13	0.81	70,90,90	219	0.86	0.13	0.81	70,90,90
		220	0.87	0.13	0.81	70,90,90	188	0.87	0.13	0.81	70,90,90
190	ok	240	0.85	0.21	0.83	82,74,81	210	0.79	0.21	0.83	83,74,81
		209	0.80	0.21	0.83	83,74,81	222	0.89	0.21	0.83	82,74,81
191	ok	232	0.82	0.0	0.0	77,0,0	203	0.82	0.0	0.0	77,0,0
		202	0.83	0.0	0.0	77,0,0	239	0.82	0.0	0.0	77,0,0
192	ok	255	0.82	0.0	0.0	77,0,0	232	0.82	0.0	0.0	77,0,0
		239	0.82	0.0	0.0	77,0,0	230	0.82	0.0	0.0	77,0,0
193	ok	251	0.83	0.0	0.0	70,0,0	260	0.84	0.0	0.0	70,0,0
		246	0.84	0.0	0.0	70,0,0	257	0.84	0.0	0.0	70,0,0
194	ok	192	0.83	0.0	0.0	73,0,0	233	0.83	0.0	0.0	73,0,0
		238	0.83	0.0	0.0	73,0,0	193	0.83	0.0	0.0	73,0,0
195	ok	239	0.83	0.0	0.0	77,0,0	202	0.83	0.0	0.0	77,0,0
		215	0.84	0.0	0.0	77,0,0	201	0.83	0.0	0.0	77,0,0



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196	ok	228	0.84	0.0	0.0	70,0,0	249	0.85	0.0	0.0	70,0,0
		251	0.85	0.0	0.0	70,0,0	237	0.85	0.0	0.0	70,0,0
197	ok	233	0.83	0.0	0.0	73,0,0	254	0.83	0.0	0.0	73,0,0
		231	0.83	0.0	0.0	70,0,0	238	0.83	0.0	0.0	73,0,0
198	ok	246	0.83	0.0	0.0	70,0,0	245	0.83	0.0	0.0	70,0,0
		223	0.83	0.0	0.0	77,0,0	224	0.83	0.0	0.0	70,0,0
199	ok	244	0.88	0.11	0.85	82,74,81	221	0.91	0.11	0.85	82,74,81
		225	0.92	0.11	0.85	82,74,81	248	0.87	0.11	0.85	82,74,81
200	ok	60	0.87	0.56	0.81	92,90,90	263	0.84	0.56	0.81	82,90,90
		213	0.84	0.56	0.81	70,90,90	184	0.92	0.56	0.81	70,90,90
201	ok	263	0.82	0.34	0.93	70,69,90	217	0.78	0.34	0.93	71,69,90
		242	0.81	0.34	0.93	82,69,90	241	0.88	0.34	0.93	82,69,90
202	ok	222	0.89	0.19	0.82	82,81,81	209	0.80	0.19	0.82	83,81,81
		208	0.80	0.19	0.82	83,81,81	221	0.91	0.19	0.82	82,81,81
203	ok	191	0.84	0.0	0.0	70,0,0	236	0.83	0.0	0.0	70,0,0
		233	0.84	0.0	0.0	70,0,0	192	0.84	0.0	0.0	70,0,0
204	ok	224	0.83	0.0	0.0	77,0,0	223	0.84	0.0	0.0	77,0,0
		198	0.85	0.0	0.0	77,0,0	197	0.83	0.0	0.0	77,0,0
205	ok	253	0.88	0.15	0.88	82,74,81	222	0.89	0.15	0.88	82,74,81
		221	0.91	0.15	0.88	82,74,81	244	0.89	0.15	0.88	82,74,81
206	ok	256	0.83	0.0	0.0	70,0,0	255	0.83	0.0	0.0	77,0,0
		230	0.83	0.0	0.0	77,0,0	227	0.82	0.0	0.0	77,0,0
207	ok	258	0.89	0.21	0.93	82,69,81	240	0.85	0.21	0.93	82,69,77
		222	0.89	0.21	0.93	82,69,81	253	0.89	0.21	0.93	82,69,81
208	ok	241	0.88	0.27	0.90	70,69,85	242	0.81	0.27	0.90	82,69,85
		240	0.85	0.27	0.90	82,69,85	258	0.88	0.27	0.90	82,69,85
209	ok	220	0.85	0.0	0.0	70,0,0	247	0.85	0.0	0.0	70,0,0
		249	0.86	0.0	0.0	70,0,0	228	0.86	0.0	0.0	70,0,0
210	ok	185	0.89	0.21	0.82	82,69,90	241	0.89	0.21	0.82	70,69,90
		218	0.89	0.21	0.82	70,69,90	186	0.88	0.21	0.82	70,69,90
211	ok	229	0.82	0.0	0.0	77,0,0	204	0.81	0.0	0.0	77,0,0
		203	0.82	0.0	0.0	77,0,0	232	0.82	0.0	0.0	77,0,0
212	ok	219	0.85	0.11	0.89	70,69,90	243	0.86	0.11	0.89	70,69,90
		247	0.87	0.11	0.89	70,69,90	220	0.86	0.11	0.89	70,69,90
213	ok	264	0.86	0.10	0.93	82,69,85	244	0.88	0.10	0.93	82,69,77
		248	0.88	0.10	0.93	82,69,77	261	0.86	0.10	0.93	82,69,85
214	ok	260	0.83	0.0	0.0	70,0,0	259	0.84	0.0	0.0	70,0,0
		245	0.84	0.0	0.0	70,0,0	246	0.84	0.0	0.0	70,0,0
215	ok	249	0.84	0.0	0.0	70,0,0	262	0.84	0.0	0.0	70,0,0
		260	0.85	0.0	0.0	70,0,0	251	0.85	0.0	0.0	70,0,0
216	ok	243	0.87	0.14	0.90	70,69,85	253	0.88	0.14	0.90	82,69,85
		244	0.89	0.14	0.90	82,69,85	264	0.87	0.14	0.90	82,69,85
217	ok	257	0.83	0.0	0.0	70,0,0	246	0.83	0.0	0.0	70,0,0
		224	0.84	0.0	0.0	70,0,0	226	0.83	0.0	0.0	70,0,0
218	ok	245	0.83	0.0	0.0	70,0,0	256	0.83	0.0	0.0	70,0,0
		227	0.83	0.0	0.0	77,0,0	223	0.82	0.0	0.0	77,0,0



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219	ok	237	0.84	0.0	0.0	70,0,0	251	0.84	0.0	0.0	70,0,0
		257	0.85	0.0	0.0	70,0,0	236	0.84	0.0	0.0	70,0,0
220	ok	247	0.85	0.0	0.0	70,0,0	261	0.85	0.0	0.0	70,0,0
		262	0.86	0.0	0.0	70,0,0	249	0.85	0.0	0.0	70,0,0
221	ok	261	0.85	0.0	0.0	70,0,0	248	0.87	0.0	0.0	82,0,0
		250	0.87	0.0	0.0	82,0,0	262	0.85	0.0	0.0	70,0,0
222	ok	241	0.89	0.22	0.89	82,69,90	258	0.89	0.22	0.89	82,69,90
		253	0.91	0.22	0.89	82,69,90	218	0.88	0.22	0.89	70,69,90
223	ok	262	0.84	0.0	0.0	70,0,0	250	0.85	0.0	0.0	70,0,0
		252	0.86	0.0	0.0	82,0,0	259	0.84	0.0	0.0	70,0,0
224	ok	218	0.86	0.16	0.93	70,69,90	253	0.88	0.16	0.94	82,69,90
		243	0.87	0.16	0.94	70,69,90	219	0.87	0.16	0.93	70,69,90
225	ok	254	0.83	0.0	0.0	70,0,0	257	0.83	0.0	0.0	70,0,0
		226	0.83	0.0	0.0	70,0,0	231	0.83	0.0	0.0	73,0,0
226	ok	259	0.84	0.0	0.0	70,0,0	252	0.84	0.0	0.0	70,0,0
		256	0.85	0.0	0.0	70,0,0	245	0.84	0.0	0.0	70,0,0
227	ok	243	0.85	0.0	0.0	70,0,0	264	0.86	0.0	0.0	82,0,0
		261	0.87	0.0	0.0	70,0,0	247	0.86	0.11	0.79	70,69,69
228	ok	217	0.79	0.43	0.86	71,81,88	216	0.79	0.38	0.84	71,81,85
		242	0.82	0.30	0.92	82,81,85					
229	ok	260	0.85	0.0	0.0	70,0,0	262	0.84	0.0	0.0	70,0,0
		259	0.85	0.0	0.0	70,0,0					
230	ok	3	0.83	0.60	0.80	69,69,74	289	0.80	0.60	0.80	77,69,74
		318	0.79	0.60	0.80	77,69,74	368	0.78	0.60	0.80	69,69,74
231	ok	296	0.82	0.09	0.79	69,69,69	297	0.82	0.09	0.79	69,69,69
		337	0.83	0.09	0.79	69,69,69	341	0.82	0.09	0.79	69,69,69
232	ok	152	0.80	0.15	0.85	83,90,78	313	0.80	0.15	0.85	83,90,78
		312	0.81	0.15	0.85	83,90,78	153	0.83	0.15	0.85	77,90,78
233	ok	160	0.47	0.10	0.80	81,62,62	317	0.38	0.10	0.80	81,62,62
		266	0.10	0.10	0.80	62,62,62	147	0.13	0.10	0.80	78,62,62
234	ok	320	0.71	0.0	0.0	81,0,0	267	0.15	0.0	0.0	81,0,0
		266	0.12	0.0	0.0	73,0,0	317	0.40	0.0	0.0	81,0,0
235	ok	280	0.84	0.0	0.0	69,0,0	279	0.84	0.0	0.0	69,0,0
		319	0.83	0.0	0.0	69,0,0	298	0.83	0.0	0.0	69,0,0
236	ok	159	0.63	0.0	0.0	81,0,0	320	0.69	0.0	0.0	81,0,0
		317	0.39	0.0	0.0	81,0,0	160	0.42	0.0	0.0	81,0,0
237	ok	322	0.78	0.52	0.81	77,74,81	368	0.78	0.52	0.81	77,74,81
		346	0.79	0.52	0.81	81,74,81	347	0.81	0.52	0.81	73,74,81
238	ok	7	0.89	0.80	0.81	81,90,81	8	0.85	0.80	0.81	69,90,81
		322	0.78	0.80	0.81	73,90,81	321	0.84	0.80	0.81	73,90,81
239	ok	150	0.80	0.26	0.81	71,90,90	315	0.80	0.26	0.81	83,90,90
		314	0.81	0.26	0.81	83,90,90	151	0.81	0.26	0.81	83,90,90
240	ok	282	0.82	0.16	0.80	69,74,82	281	0.83	0.16	0.80	69,74,82
		297	0.82	0.16	0.80	69,74,82	296	0.82	0.16	0.80	69,74,82
241	ok	292	0.81	0.20	0.79	69,74,69	293	0.81	0.20	0.79	69,74,69
		325	0.81	0.20	0.79	69,74,69	324	0.81	0.20	0.79	69,74,69



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242	ok	310	0.81	0.0	0.0	77,0,0	339	0.82	0.0	0.0	77,0,0
		334	0.82	0.0	0.0	77,0,0	309	0.82	0.0	0.0	77,0,0
243	ok	278	0.82	0.0	0.0	69,0,0	265	0.22	0.0	0.0	69,0,0
		277	0.80	0.0	0.0	69,0,0	316	0.84	0.0	0.0	69,0,0
244	ok	319	0.83	0.0	0.0	69,0,0	316	0.84	0.0	0.0	69,0,0
		277	0.85	0.0	0.0	69,0,0	276	0.83	0.0	0.0	69,0,0
245	ok	331	0.83	0.0	0.0	69,0,0	336	0.83	0.0	0.0	69,0,0
		300	0.84	0.0	0.0	69,0,0	301	0.84	0.0	0.0	69,0,0
246	ok	299	0.83	0.0	0.0	69,0,0	319	0.84	0.0	0.0	69,0,0
		276	0.85	0.0	0.0	69,0,0	275	0.84	0.0	0.0	69,0,0
247	ok	302	0.85	0.0	0.0	81,0,0	272	0.88	0.0	0.0	81,0,0
		271	0.89	0.0	0.0	81,0,0	303	0.84	0.0	0.0	81,0,0
248	ok	281	0.83	0.12	0.80	69,74,82	280	0.84	0.12	0.80	69,74,82
		298	0.83	0.12	0.80	69,74,82	297	0.82	0.12	0.80	69,74,82
249	ok	305	0.84	0.0	0.0	81,0,0	304	0.85	0.0	0.0	81,0,0
		270	0.83	0.0	0.0	81,0,0	269	0.60	0.0	0.0	81,0,0
250	ok	154	0.84	0.11	0.83	77,78,78	311	0.81	0.11	0.83	77,78,78
		310	0.82	0.11	0.83	77,78,78	155	0.86	0.11	0.83	81,78,78
251	ok	332	0.83	0.0	0.0	81,0,0	328	0.84	0.0	0.0	81,0,0
		303	0.85	0.0	0.0	81,0,0	304	0.84	0.0	0.0	81,0,0
252	ok	157	0.88	0.0	0.0	81,0,0	308	0.83	0.0	0.0	81,0,0
		307	0.84	0.0	0.0	81,0,0	158	0.70	0.0	0.0	81,0,0
253	ok	306	0.84	0.0	0.0	81,0,0	268	0.34	0.0	0.0	81,0,0
		267	0.16	0.0	0.0	81,0,0	320	0.73	0.0	0.0	81,0,0
254	ok	156	0.86	0.09	0.82	81,78,78	309	0.82	0.09	0.82	77,78,78
		308	0.83	0.09	0.82	77,78,78	157	0.87	0.09	0.82	81,78,78
255	ok	301	0.84	0.0	0.0	69,0,0	273	0.86	0.0	0.0	69,0,0
		272	0.87	0.0	0.0	69,0,0	302	0.84	0.0	0.0	69,0,0
256	ok	293	0.81	0.17	0.79	69,69,69	294	0.81	0.17	0.79	69,69,69
		333	0.81	0.17	0.79	69,69,69	325	0.81	0.17	0.79	61,69,69
257	ok	151	0.81	0.20	0.89	76,90,78	314	0.80	0.20	0.89	83,90,78
		313	0.81	0.20	0.89	83,90,78	152	0.82	0.20	0.89	77,90,78
258	ok	149	0.80	0.28	0.84	71,90,81	321	0.80	0.28	0.84	83,90,81
		315	0.81	0.28	0.84	83,90,81	150	0.81	0.28	0.84	71,90,81
259	ok	313	0.80	0.14	0.89	71,81,90	326	0.81	0.14	0.89	77,81,90
		330	0.81	0.14	0.89	77,81,90	312	0.80	0.14	0.89	77,81,90
260	ok	334	0.82	0.0	0.0	77,0,0	361	0.83	0.0	0.0	81,0,0
		360	0.83	0.0	0.0	81,0,0	338	0.82	0.0	0.0	81,0,0
261	ok	368	0.78	0.46	0.79	77,74,81	318	0.79	0.46	0.79	77,74,81
		290	0.79	0.46	0.79	69,74,81	346	0.80	0.46	0.79	69,74,81
262	ok	283	0.82	0.19	0.80	69,74,70	282	0.82	0.19	0.80	69,74,70
		296	0.82	0.19	0.80	69,74,70	295	0.81	0.19	0.80	69,74,70
263	ok	295	0.82	0.11	0.79	69,69,69	296	0.82	0.11	0.79	69,69,69
		341	0.82	0.11	0.79	69,69,69	342	0.82	0.11	0.79	69,69,69
264	ok	286	0.80	0.34	0.79	69,74,70	285	0.81	0.34	0.79	69,74,70
		293	0.81	0.34	0.79	69,74,70	292	0.80	0.34	0.79	69,74,70



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265	ok	344	0.83	0.0	0.0	81,0,0	335	0.84	0.0	0.0	81,0,0
		305	0.85	0.0	0.0	81,0,0	306	0.85	0.0	0.0	81,0,0
266	ok	321	0.82	0.46	0.83	81,69,81	347	0.79	0.46	0.83	81,69,81
		345	0.82	0.46	0.83	73,69,81	315	0.80	0.46	0.83	83,69,81
267	ok	2	0.84	0.55	0.93	81,81,84	7	0.79	0.55	0.93	81,81,84
		321	0.81	0.55	0.93	81,81,84	149	0.85	0.55	0.93	77,81,84
268	ok	285	0.81	0.28	0.80	69,74,62	284	0.81	0.28	0.80	69,74,70
		294	0.81	0.28	0.80	69,74,70	293	0.81	0.28	0.80	69,74,70
269	ok	299	0.84	0.0	0.0	69,0,0	275	0.85	0.0	0.0	69,0,0
		274	0.85	0.0	0.0	69,0,0	300	0.84	0.0	0.0	69,0,0
270	ok	297	0.83	0.0	0.0	69,0,0	298	0.83	0.0	0.0	69,0,0
		343	0.83	0.0	0.0	69,0,0	337	0.83	0.0	0.0	69,0,0
271	ok	306	0.84	0.0	0.0	81,0,0	305	0.85	0.0	0.0	81,0,0
		269	0.58	0.0	0.0	81,0,0	268	0.36	0.0	0.0	81,0,0
272	ok	327	0.80	0.25	0.93	77,69,81	358	0.81	0.25	0.93	81,69,81
		349	0.82	0.25	0.93	81,69,81	326	0.80	0.25	0.93	77,69,81
273	ok	304	0.84	0.0	0.0	81,0,0	303	0.85	0.0	0.0	81,0,0
		271	0.89	0.0	0.0	81,0,0	270	0.83	0.0	0.0	81,0,0
274	ok	301	0.84	0.0	0.0	69,0,0	300	0.84	0.0	0.0	69,0,0
		274	0.86	0.0	0.0	69,0,0	273	0.86	0.0	0.0	69,0,0
275	ok	287	0.80	0.40	0.79	77,74,82	286	0.80	0.40	0.79	61,74,82
		292	0.80	0.40	0.79	77,74,82	291	0.80	0.40	0.79	77,74,82
276	ok	338	0.82	0.0	0.0	81,0,0	360	0.84	0.0	0.0	81,0,0
		335	0.84	0.0	0.0	81,0,0	344	0.83	0.0	0.0	81,0,0
277	ok	330	0.81	0.14	0.94	77,69,81	353	0.82	0.14	0.94	81,69,81
		355	0.82	0.14	0.94	81,69,81	340	0.81	0.14	0.94	77,69,81
278	ok	284	0.81	0.23	0.80	69,74,70	283	0.82	0.23	0.80	69,74,70
		295	0.81	0.23	0.80	61,74,70	294	0.81	0.23	0.80	69,74,70
279	ok	158	0.74	0.0	0.0	81,0,0	307	0.84	0.0	0.0	81,0,0
		320	0.71	0.0	0.0	81,0,0	159	0.57	0.0	0.0	81,0,0
280	ok	153	0.82	0.11	0.84	77,90,78	312	0.81	0.11	0.84	77,90,78
		311	0.81	0.11	0.84	77,90,78	154	0.84	0.11	0.84	81,90,78
281	ok	294	0.81	0.14	0.79	69,69,69	295	0.82	0.14	0.79	69,69,69
		342	0.82	0.14	0.79	69,69,69	333	0.81	0.14	0.79	69,69,69
282	ok	8	0.86	0.59	0.80	69,74,74	3	0.91	0.59	0.80	69,74,74
		368	0.77	0.59	0.80	81,74,74	322	0.78	0.59	0.80	69,74,74
283	ok	291	0.80	0.26	0.79	81,74,81	292	0.80	0.26	0.79	61,74,81
		324	0.81	0.26	0.79	61,74,81	323	0.80	0.26	0.79	69,74,81
284	ok	279	0.84	0.0	0.0	69,0,0	278	0.77	0.0	0.0	69,0,0
		316	0.84	0.0	0.0	69,0,0	319	0.84	0.0	0.0	69,0,0
285	ok	298	0.83	0.0	0.0	69,0,0	319	0.84	0.0	0.0	69,0,0
		299	0.83	0.0	0.0	69,0,0	343	0.83	0.0	0.0	69,0,0
286	ok	155	0.85	0.10	0.82	81,78,78	310	0.82	0.10	0.82	77,78,78
		309	0.82	0.10	0.82	77,78,78	156	0.87	0.10	0.82	81,78,78
287	ok	289	0.79	0.57	0.79	77,69,74	288	0.80	0.58	0.79	77,69,74
		290	0.80	0.58	0.79	77,69,74	318	0.79	0.58	0.79	77,69,74



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288	ok	342	0.82	0.08	0.80	69,69,81	341	0.82	0.08	0.80	69,69,81
		362	0.82	0.08	0.80	69,69,81	356	0.82	0.08	0.80	69,69,81
289	ok	343	0.83	0.0	0.0	69,0,0	299	0.84	0.0	0.0	69,0,0
		300	0.83	0.0	0.0	69,0,0	336	0.83	0.0	0.0	69,0,0
290	ok	325	0.81	0.15	0.80	69,69,81	333	0.81	0.15	0.80	69,69,81
		354	0.82	0.15	0.80	69,69,81	352	0.82	0.15	0.80	69,69,81
291	ok	331	0.83	0.0	0.0	69,0,0	301	0.84	0.0	0.0	69,0,0
		302	0.84	0.0	0.0	69,0,0	329	0.83	0.0	0.0	69,0,0
292	ok	288	0.79	0.47	0.79	69,74,74	287	0.80	0.47	0.79	61,74,74
		291	0.80	0.47	0.79	77,74,74	290	0.79	0.47	0.79	77,74,74
293	ok	308	0.83	0.0	0.0	81,0,0	338	0.83	0.0	0.0	81,0,0
		344	0.84	0.0	0.0	81,0,0	307	0.84	0.0	0.0	81,0,0
294	ok	307	0.84	0.0	0.0	81,0,0	344	0.84	0.0	0.0	81,0,0
		306	0.85	0.0	0.0	81,0,0	320	0.68	0.0	0.0	81,0,0
295	ok	312	0.80	0.0	0.0	77,0,0	330	0.81	0.0	0.0	77,0,0
		340	0.82	0.0	0.0	77,0,0	311	0.81	0.0	0.0	77,0,0
296	ok	311	0.81	0.0	0.0	77,0,0	340	0.82	0.0	0.0	77,0,0
		339	0.82	0.0	0.0	77,0,0	310	0.81	0.0	0.0	77,0,0
297	ok	333	0.82	0.11	0.80	69,69,81	342	0.82	0.11	0.80	69,69,81
		356	0.82	0.11	0.80	77,69,81	354	0.82	0.11	0.80	69,69,81
298	ok	314	0.80	0.21	0.90	71,81,90	327	0.81	0.21	0.90	77,81,90
		326	0.81	0.21	0.90	77,81,90	313	0.80	0.21	0.90	71,81,90
299	ok	315	0.80	0.31	0.92	71,81,84	345	0.81	0.31	0.92	81,81,84
		327	0.81	0.31	0.92	77,81,84	314	0.80	0.31	0.92	71,81,84
300	ok	326	0.80	0.19	0.93	77,69,81	349	0.82	0.19	0.93	81,69,81
		353	0.82	0.19	0.93	81,69,81	330	0.81	0.19	0.93	77,69,81
301	ok	361	0.82	0.0	0.0	81,0,0	332	0.84	0.0	0.0	81,0,0
		335	0.84	0.0	0.0	81,0,0	360	0.83	0.0	0.0	81,0,0
302	ok	362	0.82	0.0	0.0	69,0,0	359	0.83	0.0	0.0	69,0,0
		336	0.84	0.0	0.0	69,0,0	331	0.83	0.0	0.0	69,0,0
303	ok	339	0.81	0.0	0.0	77,0,0	357	0.83	0.0	0.0	81,0,0
		361	0.83	0.0	0.0	81,0,0	334	0.82	0.0	0.0	77,0,0
304	ok	328	0.84	0.0	0.0	69,0,0	329	0.83	0.0	0.0	69,0,0
		302	0.84	0.0	0.0	69,0,0	303	0.85	0.0	0.0	69,0,0
305	ok	332	0.83	0.0	0.0	81,0,0	304	0.85	0.0	0.0	81,0,0
		305	0.85	0.0	0.0	81,0,0	335	0.84	0.0	0.0	81,0,0
306	ok	324	0.81	0.20	0.80	69,69,81	325	0.81	0.20	0.80	69,69,81
		352	0.82	0.20	0.80	69,69,81	348	0.81	0.20	0.80	69,69,81
307	ok	349	0.81	0.18	0.85	81,69,81	369	0.82	0.18	0.85	81,69,81
		366	0.82	0.18	0.85	81,69,81	353	0.81	0.18	0.85	81,69,81
308	ok	337	0.82	0.0	0.0	69,0,0	343	0.83	0.0	0.0	69,0,0
		336	0.83	0.0	0.0	69,0,0	359	0.83	0.0	0.0	69,0,0
309	ok	347	0.80	0.42	0.85	81,69,81	346	0.80	0.42	0.85	81,69,81
		363	0.81	0.42	0.85	69,69,81	345	0.82	0.42	0.85	73,69,81
310	ok	346	0.79	0.34	0.82	81,69,81	323	0.80	0.34	0.82	81,69,81
		358	0.81	0.34	0.82	81,69,81	363	0.81	0.34	0.82	73,69,81



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311	ok	350	0.83	0.0	0.0	69,0,0	351	0.82	0.0	0.0	69,0,0
		329	0.83	0.0	0.0	81,0,0	328	0.83	0.0	0.0	69,0,0
312	ok	290	0.79	0.35	0.80	81,74,81	291	0.80	0.35	0.80	69,74,81
		323	0.80	0.35	0.80	81,74,81	346	0.79	0.35	0.80	81,74,81
313	ok	309	0.82	0.0	0.0	77,0,0	334	0.82	0.0	0.0	81,0,0
		338	0.83	0.0	0.0	81,0,0	308	0.83	0.0	0.0	77,0,0
314	ok	340	0.81	0.11	0.94	77,69,85	355	0.82	0.11	0.94	81,69,85
		357	0.83	0.11	0.94	81,69,77	339	0.81	0.11	0.94	77,69,85
315	ok	354	0.82	0.11	0.81	81,69,81	356	0.82	0.11	0.81	81,69,81
		365	0.82	0.11	0.81	69,69,81	367	0.82	0.11	0.81	69,69,81
316	ok	348	0.81	0.18	0.82	69,69,81	352	0.82	0.18	0.82	69,69,81
		366	0.82	0.18	0.82	81,69,81	369	0.81	0.18	0.82	69,69,81
317	ok	362	0.83	0.0	0.0	69,0,0	331	0.83	0.0	0.0	69,0,0
		329	0.83	0.0	0.0	69,0,0	351	0.83	0.0	0.0	69,0,0
318	ok	350	0.83	0.0	0.0	81,0,0	328	0.83	0.0	0.0	81,0,0
		332	0.84	0.0	0.0	81,0,0	361	0.82	0.0	0.0	81,0,0
319	ok	356	0.82	0.0	0.0	69,0,0	362	0.83	0.0	0.0	69,0,0
		351	0.82	0.0	0.0	69,0,0	365	0.82	0.0	0.0	69,0,0
320	ok	353	0.82	0.14	0.84	81,69,81	366	0.82	0.14	0.84	81,69,81
		367	0.82	0.14	0.84	81,69,81	355	0.82	0.14	0.84	81,69,81
321	ok	352	0.82	0.14	0.82	69,69,81	354	0.82	0.14	0.82	81,69,81
		367	0.82	0.14	0.82	81,69,81	366	0.82	0.14	0.82	69,69,81
322	ok	345	0.81	0.33	0.90	73,69,81	363	0.80	0.33	0.89	73,69,81
		358	0.81	0.33	0.89	81,69,81	327	0.80	0.33	0.89	77,69,81
323	ok	364	0.82	0.0	0.0	81,0,0	365	0.83	0.0	0.0	81,0,0
		351	0.82	0.0	0.0	81,0,0	350	0.83	0.0	0.0	81,0,0
324	ok	355	0.81	0.11	0.84	77,69,81	367	0.82	0.11	0.84	81,69,81
		364	0.83	0.11	0.84	81,69,81	357	0.82	0.11	0.84	81,69,81
325	ok	323	0.80	0.26	0.81	69,69,81	324	0.81	0.26	0.81	81,69,81
		348	0.81	0.26	0.81	69,69,81	358	0.81	0.26	0.81	69,69,81
326	ok	341	0.82	0.0	0.0	69,0,0	337	0.83	0.0	0.0	69,0,0
		359	0.83	0.0	0.0	69,0,0	362	0.82	0.0	0.0	69,0,0
327	ok	357	0.82	0.0	0.0	81,0,0	364	0.83	0.0	0.0	81,0,0
		350	0.83	0.0	0.0	81,0,0	361	0.83	0.0	0.0	81,0,0
328	ok	358	0.81	0.23	0.84	81,69,81	348	0.81	0.23	0.84	81,69,81
		369	0.82	0.23	0.84	81,69,81	349	0.81	0.23	0.84	81,69,81
329	ok	321	0.89	0.60	0.84	73,74,81	322	0.78	0.62	0.84	73,74,81
		347	0.80	0.47	0.90	73,74,81					
330	ok	367	0.82	0.10	0.84	81,69,81	365	0.82	0.09	0.80	81,69,81
		364	0.82	0.11	0.87	81,69,81					
331	ok	385	0.84	0.0	0.0	62,0,0	384	0.85	0.0	0.0	62,0,0
		424	0.85	0.0	0.0	62,0,0	403	0.84	0.0	0.0	62,0,0
332	ok	386	0.84	0.0	0.0	62,0,0	385	0.84	0.0	0.0	62,0,0
		403	0.84	0.0	0.0	62,0,0	402	0.83	0.0	0.0	62,0,0
333	ok	418	0.80	0.14	0.84	61,81,81	417	0.81	0.14	0.84	61,81,81
		285	0.80	0.14	0.84	61,81,81	286	0.80	0.14	0.84	61,81,81



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334	ok	422	0.72	0.0	0.0	69,0,0	371	0.46	0.0	0.0	69,0,0
		265	0.19	0.0	0.0	69,0,0	278	0.82	0.0	0.0	69,0,0
335	ok	425	0.83	0.0	0.0	69,0,0	372	0.74	0.0	0.0	69,0,0
		371	0.50	0.0	0.0	69,0,0	422	0.75	0.0	0.0	69,0,0
336	ok	473	0.90	0.71	0.90	66,62,79	451	0.81	0.71	0.90	82,62,79
		452	0.80	0.71	0.90	61,62,79	427	0.91	0.71	0.90	74,62,79
337	NV	17	0.92	1.00	0.90	70,86,78	427	0.92	1.00	0.90	66,73,78
		426	0.86	1.00	0.90	69,68,78	16	0.91	1.00	0.90	69,68,78
338	ok	15	0.90	0.61	0.85	62,62,62	394	0.87	0.61	0.85	62,62,62
		423	0.79	0.61	0.85	82,62,62	473	0.87	0.61	0.85	66,62,62
339	ok	420	0.79	0.28	0.82	61,81,81	419	0.80	0.28	0.82	61,81,81
		287	0.80	0.28	0.82	61,81,81	288	0.79	0.28	0.82	61,81,81
340	ok	388	0.82	0.0	0.0	70,0,0	387	0.83	0.0	0.0	70,0,0
		401	0.82	0.0	0.0	70,0,0	400	0.82	0.0	0.0	70,0,0
341	ok	396	0.80	0.33	0.80	70,62,81	397	0.81	0.33	0.80	70,62,81
		429	0.81	0.33	0.80	70,62,81	428	0.81	0.33	0.80	70,62,81
342	ok	443	0.83	0.0	0.0	70,0,0	448	0.84	0.0	0.0	62,0,0
		441	0.84	0.0	0.0	62,0,0	464	0.83	0.0	0.0	70,0,0
343	ok	383	0.85	0.0	0.0	62,0,0	370	0.20	0.0	0.0	62,0,0
		382	0.52	0.0	0.0	62,0,0	421	0.77	0.0	0.0	62,0,0
344	ok	421	0.79	0.0	0.0	62,0,0	382	0.57	0.0	0.0	62,0,0
		381	0.82	0.0	0.0	62,0,0	424	0.83	0.0	0.0	62,0,0
345	ok	447	0.81	0.13	0.80	70,62,81	446	0.82	0.13	0.80	70,62,81
		467	0.83	0.13	0.80	70,62,81	461	0.82	0.13	0.80	70,62,81
346	ok	424	0.85	0.0	0.0	62,0,0	381	0.84	0.0	0.0	62,0,0
		380	0.85	0.0	0.0	62,0,0	404	0.84	0.0	0.0	62,0,0
347	ok	404	0.85	0.0	0.0	62,0,0	380	0.87	0.0	0.0	62,0,0
		379	0.86	0.0	0.0	62,0,0	405	0.85	0.0	0.0	62,0,0
348	ok	441	0.84	0.0	0.0	62,0,0	405	0.85	0.0	0.0	70,0,0
		406	0.85	0.0	0.0	70,0,0	436	0.84	0.0	0.0	62,0,0
349	ok	407	0.85	0.0	0.0	74,0,0	377	0.86	0.0	0.0	74,0,0
		376	0.86	0.0	0.0	74,0,0	408	0.85	0.0	0.0	74,0,0
350	ok	425	0.85	0.0	0.0	69,0,0	422	0.75	0.0	0.0	69,0,0
		278	0.76	0.0	0.0	69,0,0	279	0.84	0.0	0.0	69,0,0
351	ok	416	0.81	0.0	0.0	69,0,0	415	0.82	0.0	0.0	69,0,0
		283	0.82	0.0	0.0	61,0,0	284	0.81	0.0	0.0	61,0,0
352	ok	437	0.83	0.0	0.0	69,0,0	409	0.84	0.0	0.0	69,0,0
		410	0.85	0.0	0.0	69,0,0	440	0.84	0.0	0.0	69,0,0
353	ok	413	0.83	0.0	0.0	69,0,0	412	0.84	0.0	0.0	69,0,0
		280	0.84	0.0	0.0	69,0,0	281	0.83	0.0	0.0	69,0,0
354	ok	411	0.84	0.0	0.0	69,0,0	373	0.85	0.0	0.0	69,0,0
		372	0.77	0.0	0.0	69,0,0	425	0.84	0.0	0.0	69,0,0
355	ok	409	0.84	0.0	0.0	69,0,0	375	0.86	0.0	0.0	69,0,0
		374	0.87	0.0	0.0	69,0,0	410	0.84	0.0	0.0	69,0,0
356	ok	414	0.82	0.0	0.0	69,0,0	413	0.82	0.0	0.0	69,0,0
		281	0.83	0.0	0.0	69,0,0	282	0.82	0.0	0.0	69,0,0



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357	ok	406	0.85	0.0	0.0	74,0,0	378	0.86	0.0	0.0	74,0,0
		377	0.86	0.0	0.0	74,0,0	407	0.85	0.0	0.0	74,0,0
358	ok	398	0.81	0.20	0.79	70,62,62	399	0.81	0.20	0.79	70,62,62
		438	0.81	0.20	0.79	70,62,62	430	0.81	0.20	0.79	70,62,62
359	ok	419	0.80	0.19	0.83	61,81,81	418	0.80	0.19	0.83	61,81,81
		286	0.80	0.19	0.83	61,81,81	287	0.80	0.19	0.83	61,81,81
360	ok	426	0.89	0.45	0.80	69,81,81	420	0.80	0.45	0.80	61,81,81
		288	0.80	0.45	0.80	77,81,81	289	0.82	0.45	0.80	69,81,81
361	ok	431	0.81	0.24	0.80	61,69,62	435	0.81	0.24	0.80	61,69,62
		417	0.81	0.24	0.80	61,69,62	418	0.80	0.24	0.80	61,69,62
362	ok	433	0.83	0.0	0.0	69,0,0	408	0.84	0.0	0.0	69,0,0
		409	0.85	0.0	0.0	74,0,0	437	0.83	0.0	0.0	74,0,0
363	ok	423	0.80	0.58	0.82	62,62,79	395	0.80	0.58	0.82	82,62,79
		451	0.81	0.58	0.82	82,62,79	473	0.91	0.58	0.81	70,62,79
364	ok	400	0.81	0.12	0.79	70,62,62	401	0.82	0.12	0.79	70,62,62
		446	0.82	0.12	0.79	70,62,62	447	0.81	0.12	0.79	70,62,62
365	ok	391	0.81	0.17	0.83	70,78,78	390	0.81	0.17	0.83	70,78,78
		398	0.81	0.17	0.83	70,78,78	397	0.81	0.17	0.83	70,78,78
366	ok	440	0.84	0.0	0.0	69,0,0	410	0.84	0.0	0.0	69,0,0
		411	0.85	0.0	0.0	69,0,0	449	0.84	0.0	0.0	69,0,0
367	ok	452	0.80	0.59	0.83	77,69,78	450	0.80	0.59	0.83	61,69,78
		420	0.80	0.59	0.83	61,69,78	426	0.89	0.59	0.83	74,69,78
368	ok	16	0.89	0.68	0.80	69,69,84	426	0.90	0.68	0.80	69,69,84
		289	0.81	0.68	0.80	69,69,84	3	0.88	0.68	0.80	69,69,84
369	ok	390	0.81	0.13	0.84	70,78,78	389	0.81	0.13	0.84	70,78,78
		399	0.81	0.13	0.84	70,78,78	398	0.81	0.13	0.84	70,78,78
370	ok	448	0.84	0.0	0.0	62,0,0	404	0.85	0.0	0.0	62,0,0
		405	0.85	0.0	0.0	70,0,0	441	0.84	0.0	0.0	62,0,0
371	ok	410	0.84	0.0	0.0	69,0,0	374	0.85	0.0	0.0	69,0,0
		373	0.87	0.0	0.0	69,0,0	411	0.85	0.0	0.0	69,0,0
372	ok	463	0.81	0.34	0.84	61,69,78	454	0.81	0.34	0.84	61,69,78
		431	0.80	0.34	0.84	61,69,78	432	0.80	0.34	0.84	61,69,78
373	ok	408	0.85	0.0	0.0	69,0,0	376	0.86	0.0	0.0	69,0,0
		375	0.86	0.0	0.0	69,0,0	409	0.85	0.0	0.0	74,0,0
374	ok	405	0.85	0.0	0.0	66,0,0	379	0.87	0.0	0.0	66,0,0
		378	0.86	0.0	0.0	66,0,0	406	0.85	0.0	0.0	66,0,0
375	ok	393	0.80	0.31	0.82	82,78,78	392	0.80	0.31	0.82	82,78,78
		396	0.81	0.31	0.82	82,78,78	395	0.80	0.31	0.82	82,78,78
376	ok	465	0.83	0.0	0.0	69,0,0	440	0.84	0.0	0.0	69,0,0
		449	0.84	0.0	0.0	69,0,0	442	0.82	0.0	0.0	69,0,0
377	ok	392	0.80	0.23	0.83	70,78,78	391	0.81	0.23	0.83	70,78,78
		397	0.81	0.23	0.83	70,78,78	396	0.81	0.23	0.83	70,78,78
378	ok	389	0.82	0.0	0.0	70,0,0	388	0.82	0.10	0.84	70,78,78
		400	0.82	0.10	0.84	70,78,78	399	0.82	0.0	0.0	70,0,0
379	ok	412	0.84	0.0	0.0	69,0,0	425	0.85	0.0	0.0	69,0,0
		279	0.84	0.0	0.0	69,0,0	280	0.84	0.0	0.0	69,0,0



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380	ok	417	0.81	0.0	0.0	61,0,0	416	0.81	0.11	0.85	61,81,81
		284	0.81	0.11	0.85	61,81,81	285	0.81	0.0	0.0	61,0,0
381	ok	399	0.81	0.16	0.79	70,62,62	400	0.81	0.16	0.79	70,62,62
		447	0.82	0.16	0.79	70,62,62	438	0.81	0.16	0.79	70,62,62
382	ok	458	0.81	0.21	0.82	61,69,78	460	0.81	0.21	0.82	61,69,78
		445	0.81	0.21	0.82	61,69,78	435	0.81	0.21	0.82	61,69,78
383	ok	384	0.85	0.0	0.0	62,0,0	383	0.79	0.0	0.0	62,0,0
		421	0.79	0.0	0.0	62,0,0	424	0.86	0.0	0.0	62,0,0
384	ok	403	0.84	0.0	0.0	62,0,0	424	0.85	0.0	0.0	62,0,0
		404	0.84	0.0	0.0	62,0,0	448	0.84	0.0	0.0	62,0,0
385	ok	415	0.81	0.0	0.0	69,0,0	414	0.82	0.0	0.0	69,0,0
		282	0.82	0.0	0.0	69,0,0	283	0.81	0.0	0.0	69,0,0
386	ok	394	0.84	0.40	0.82	62,78,78	393	0.80	0.40	0.82	82,78,78
		395	0.80	0.40	0.82	70,78,78	423	0.80	0.40	0.82	62,78,78
387	ok	387	0.83	0.0	0.0	70,0,0	386	0.83	0.0	0.0	70,0,0
		402	0.83	0.0	0.0	70,0,0	401	0.82	0.0	0.0	70,0,0
388	ok	430	0.81	0.21	0.81	70,62,81	438	0.81	0.21	0.81	70,62,81
		459	0.81	0.21	0.81	70,62,81	457	0.81	0.21	0.81	70,62,81
389	ok	436	0.84	0.0	0.0	74,0,0	406	0.85	0.0	0.0	74,0,0
		407	0.85	0.0	0.0	74,0,0	434	0.84	0.0	0.0	74,0,0
390	ok	444	0.81	0.12	0.80	61,69,62	439	0.82	0.12	0.80	69,69,62
		414	0.82	0.12	0.80	61,69,62	415	0.81	0.12	0.80	61,69,62
391	ok	397	0.80	0.25	0.79	70,62,62	398	0.81	0.25	0.79	70,62,62
		430	0.81	0.25	0.79	70,62,62	429	0.81	0.25	0.79	70,62,62
392	ok	15	0.91	0.82	0.86	70,62,63	473	0.91	0.82	0.87	66,62,63
		427	0.92	0.82	0.86	66,62,63	17	0.93	0.82	0.86	70,62,63
393	ok	442	0.83	0.0	0.0	69,0,0	449	0.83	0.0	0.0	69,0,0
		412	0.84	0.0	0.0	69,0,0	413	0.82	0.0	0.0	69,0,0
394	ok	449	0.84	0.0	0.0	69,0,0	411	0.84	0.0	0.0	69,0,0
		425	0.85	0.0	0.0	69,0,0	412	0.84	0.0	0.0	69,0,0
395	ok	435	0.81	0.19	0.80	61,69,62	445	0.81	0.19	0.80	61,69,62
		416	0.81	0.19	0.80	61,69,62	417	0.80	0.19	0.80	61,69,62
396	ok	445	0.81	0.15	0.80	61,69,62	444	0.81	0.15	0.80	61,69,62
		415	0.81	0.15	0.80	61,69,62	416	0.81	0.15	0.80	61,69,62
397	ok	438	0.81	0.17	0.80	70,62,81	447	0.81	0.17	0.80	70,62,81
		461	0.82	0.17	0.80	70,62,81	459	0.81	0.17	0.80	70,62,81
398	ok	432	0.80	0.32	0.80	61,69,78	431	0.81	0.32	0.80	61,69,78
		418	0.80	0.32	0.80	61,69,78	419	0.80	0.32	0.80	61,69,78
399	ok	450	0.80	0.42	0.81	61,69,78	432	0.81	0.42	0.81	61,69,78
		419	0.80	0.42	0.81	61,69,78	420	0.80	0.42	0.81	61,69,78
400	ok	454	0.81	0.26	0.82	61,69,78	458	0.81	0.26	0.82	61,69,78
		435	0.81	0.26	0.82	61,69,78	431	0.80	0.26	0.82	61,69,78
401	ok	462	0.82	0.12	0.80	61,69,78	466	0.82	0.12	0.80	61,69,78
		439	0.82	0.12	0.80	61,69,78	444	0.81	0.12	0.80	66,69,78
402	ok	464	0.83	0.0	0.0	70,0,0	441	0.84	0.0	0.0	70,0,0
		436	0.84	0.0	0.0	70,0,0	467	0.83	0.0	0.0	70,0,0



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403	ok	401	0.82	0.0	0.0	70,0,0	402	0.83	0.0	0.0	70,0,0
		443	0.83	0.0	0.0	70,0,0	446	0.83	0.0	0.0	70,0,0
404	ok	466	0.83	0.0	0.0	61,0,0	465	0.83	0.0	0.0	69,0,0
		442	0.83	0.0	0.0	69,0,0	439	0.82	0.0	0.0	61,0,0
405	ok	402	0.83	0.0	0.0	62,0,0	403	0.84	0.0	0.0	62,0,0
		448	0.84	0.0	0.0	62,0,0	443	0.83	0.0	0.0	62,0,0
406	ok	434	0.84	0.0	0.0	74,0,0	407	0.85	0.0	0.0	74,0,0
		408	0.85	0.0	0.0	74,0,0	433	0.84	0.0	0.0	74,0,0
407	ok	429	0.80	0.27	0.82	70,62,81	430	0.81	0.27	0.82	70,62,81
		457	0.81	0.27	0.82	70,62,81	453	0.81	0.27	0.82	70,62,81
408	ok	474	0.81	0.26	0.92	61,69,78	471	0.81	0.26	0.92	61,69,78
		458	0.81	0.26	0.92	61,69,78	454	0.81	0.26	0.92	61,69,78
409	ok	466	0.82	0.0	0.0	69,0,0	437	0.83	0.0	0.0	69,0,0
		440	0.84	0.0	0.0	69,0,0	465	0.83	0.0	0.0	69,0,0
410	ok	451	0.80	0.55	0.89	70,74,78	468	0.81	0.55	0.89	61,74,78
		450	0.80	0.55	0.89	61,74,78	452	0.80	0.55	0.89	61,74,78
411	ok	451	0.80	0.46	0.91	70,66,79	428	0.80	0.46	0.91	70,74,79
		463	0.81	0.46	0.91	61,74,79	468	0.81	0.46	0.91	61,74,79
412	ok	456	0.83	0.0	0.0	74,0,0	434	0.83	0.0	0.0	74,0,0
		433	0.83	0.0	0.0	74,0,0	455	0.83	0.0	0.0	66,0,0
413	ok	395	0.80	0.45	0.81	70,62,81	396	0.80	0.45	0.81	70,62,81
		428	0.81	0.45	0.81	70,62,81	451	0.80	0.45	0.81	70,62,81
414	ok	439	0.82	0.0	0.0	69,0,0	442	0.83	0.0	0.0	69,0,0
		413	0.83	0.0	0.0	69,0,0	414	0.81	0.0	0.0	61,0,0
415	ok	460	0.81	0.16	0.81	61,69,78	462	0.82	0.16	0.81	61,69,78
		444	0.81	0.16	0.81	61,69,78	445	0.80	0.16	0.81	66,69,78
416	ok	459	0.81	0.16	0.87	70,62,81	461	0.81	0.16	0.87	70,62,81
		470	0.82	0.16	0.87	74,70,81	472	0.81	0.16	0.87	66,62,81
417	ok	453	0.80	0.26	0.93	70,74,79	457	0.80	0.26	0.93	70,74,79
		471	0.81	0.26	0.93	61,74,79	474	0.81	0.26	0.93	66,74,79
418	ok	467	0.83	0.0	0.0	70,0,0	436	0.84	0.0	0.0	74,0,0
		434	0.84	0.0	0.0	74,0,0	456	0.83	0.0	0.0	74,0,0
419	ok	455	0.82	0.0	0.0	74,0,0	433	0.83	0.0	0.0	69,0,0
		437	0.83	0.0	0.0	66,0,0	466	0.82	0.0	0.0	74,0,0
420	ok	461	0.82	0.12	0.83	70,62,81	467	0.82	0.12	0.83	70,62,81
		456	0.83	0.12	0.83	74,62,81	470	0.82	0.12	0.83	74,62,81
421	ok	471	0.81	0.20	0.89	61,69,78	472	0.81	0.20	0.89	61,69,78
		460	0.81	0.20	0.89	61,69,78	458	0.81	0.20	0.89	66,69,78
422	ok	457	0.81	0.20	0.93	70,74,79	459	0.81	0.20	0.93	70,74,79
		472	0.81	0.20	0.93	66,74,79	471	0.81	0.20	0.93	66,74,79
423	ok	468	0.81	0.44	0.88	61,69,78	463	0.81	0.44	0.88	61,69,78
		432	0.81	0.44	0.88	61,69,78	450	0.80	0.44	0.88	61,69,78
424	ok	470	0.82	0.12	0.87	74,74,78	456	0.83	0.12	0.87	74,74,78
		455	0.82	0.12	0.87	66,74,78	469	0.82	0.12	0.87	66,74,78
425	ok	472	0.81	0.16	0.86	66,69,78	469	0.82	0.16	0.86	61,69,78
		462	0.81	0.16	0.86	66,69,78	460	0.81	0.16	0.86	66,69,78



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426	ok	428	0.80	0.35	0.84	70,62,79	429	0.80	0.35	0.84	70,62,79
		453	0.81	0.35	0.84	70,62,79	463	0.81	0.35	0.84	61,62,79
427	ok	446	0.82	0.0	0.0	70,0,0	443	0.83	0.0	0.0	70,0,0
		464	0.84	0.0	0.0	62,0,0	467	0.83	0.0	0.0	70,0,0
428	ok	469	0.82	0.12	0.83	61,69,78	455	0.83	0.12	0.83	69,69,78
		466	0.82	0.12	0.83	66,69,78	462	0.81	0.12	0.83	66,69,78
429	ok	463	0.80	0.31	0.83	61,74,78	453	0.80	0.31	0.83	70,74,78
		474	0.81	0.31	0.83	61,74,78	454	0.80	0.31	0.83	61,74,78
430	ok	427	0.91	0.85	0.91	74,74,79	452	0.80	0.64	0.88	61,74,78
		426	0.89	0.76	0.82	74,74,78					
431	ok	472	0.81	0.13	0.87	66,74,78	470	0.82	0.15	0.80	74,74,79
		469	0.82	0.15	0.79	66,74,78					
432	ok	499	0.84	0.36	0.82	82,78,81	528	0.80	0.36	0.82	78,78,81
		578	0.79	0.36	0.82	80,78,81	24	0.87	0.36	0.82	78,78,81
433	ok	506	0.82	0.0	0.0	82,0,0	551	0.82	0.0	0.0	78,0,0
		552	0.82	0.0	0.0	78,0,0	505	0.81	0.0	0.0	82,0,0
434	ok	523	0.81	0.33	0.80	70,65,69	522	0.81	0.33	0.80	70,65,69
		390	0.81	0.33	0.80	70,65,69	391	0.81	0.33	0.80	70,65,69
435	ok	527	0.84	0.0	0.0	62,0,0	476	0.81	0.0	0.0	62,0,0
		370	0.23	0.0	0.0	62,0,0	383	0.85	0.0	0.0	62,0,0
436	ok	489	0.62	0.0	0.0	78,0,0	530	0.74	0.0	0.0	78,0,0
		508	0.84	0.0	0.0	78,0,0	490	0.80	0.0	0.0	78,0,0
437	ok	546	0.83	0.0	0.0	62,0,0	515	0.84	0.0	0.0	62,0,0
		516	0.84	0.0	0.0	62,0,0	553	0.84	0.0	0.0	62,0,0
438	ok	578	0.81	0.54	0.82	66,62,84	556	0.82	0.54	0.82	66,62,84
		557	0.79	0.54	0.82	78,62,84	532	0.78	0.54	0.82	66,62,84
439	ok	26	0.89	0.77	0.79	78,62,72	532	0.78	0.77	0.79	78,62,72
		531	0.80	0.77	0.79	62,62,72	25	0.85	0.77	0.79	62,62,72
440	ok	525	0.79	0.47	0.80	82,65,69	524	0.80	0.47	0.80	82,65,69
		392	0.81	0.47	0.80	82,65,69	393	0.80	0.47	0.80	82,65,69
441	ok	491	0.86	0.0	0.0	78,0,0	507	0.82	0.0	0.0	78,0,0
		506	0.82	0.0	0.0	78,0,0	492	0.85	0.0	0.0	78,0,0
442	ok	503	0.80	0.15	0.93	82,78,81	535	0.81	0.15	0.93	82,78,81
		534	0.81	0.15	0.93	82,78,81	502	0.80	0.15	0.93	82,78,81
443	ok	570	0.83	0.0	0.0	62,0,0	546	0.83	0.0	0.0	62,0,0
		553	0.83	0.0	0.0	62,0,0	547	0.83	0.0	0.0	62,0,0
444	ok	475	0.12	0.10	0.80	77,61,61	487	0.04	0.10	0.80	69,61,61
		526	0.41	0.10	0.80	78,61,61	488	0.51	0.10	0.80	78,61,61
445	ok	526	0.43	0.0	0.0	78,0,0	487	0.07	0.0	0.0	66,0,0
		486	0.19	0.0	0.0	78,0,0	530	0.75	0.0	0.0	78,0,0
446	ok	505	0.81	0.0	0.0	82,0,0	552	0.82	0.0	0.0	78,0,0
		543	0.81	0.0	0.0	78,0,0	504	0.81	0.0	0.0	82,0,0
447	ok	490	0.77	0.0	0.0	78,0,0	508	0.83	0.0	0.0	78,0,0
		507	0.83	0.0	0.0	78,0,0	491	0.86	0.0	0.0	78,0,0
448	ok	508	0.83	0.0	0.0	78,0,0	554	0.83	0.0	0.0	78,0,0
		548	0.82	0.0	0.0	78,0,0	507	0.82	0.0	0.0	78,0,0



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449	ok	482	0.88	0.0	0.0	62,0,0	481	0.87	0.0	0.0	62,0,0
		513	0.85	0.0	0.0	62,0,0	512	0.85	0.0	0.0	62,0,0
450	ok	511	0.85	0.0	0.0	62,0,0	512	0.85	0.0	0.0	62,0,0
		539	0.83	0.0	0.0	62,0,0	541	0.84	0.0	0.0	62,0,0
451	ok	518	0.83	0.12	0.80	62,65,65	517	0.83	0.12	0.80	62,65,65
		385	0.84	0.12	0.80	62,65,65	386	0.83	0.12	0.80	62,65,65
452	ok	521	0.82	0.23	0.80	70,65,65	520	0.82	0.23	0.80	70,65,65
		388	0.82	0.23	0.80	62,65,65	389	0.82	0.23	0.80	62,65,65
453	ok	571	0.83	0.0	0.0	62,0,0	570	0.83	0.0	0.0	62,0,0
		547	0.83	0.0	0.0	62,0,0	544	0.82	0.0	0.0	62,0,0
454	ok	529	0.84	0.0	0.0	62,0,0	527	0.84	0.0	0.0	62,0,0
		383	0.80	0.0	0.0	62,0,0	384	0.85	0.0	0.0	62,0,0
455	ok	477	0.84	0.0	0.0	62,0,0	476	0.86	0.0	0.0	62,0,0
		527	0.84	0.0	0.0	62,0,0	529	0.83	0.0	0.0	62,0,0
456	ok	514	0.85	0.0	0.0	62,0,0	480	0.86	0.0	0.0	62,0,0
		479	0.86	0.0	0.0	62,0,0	515	0.85	0.0	0.0	62,0,0
457	ok	519	0.82	0.15	0.80	70,65,65	518	0.83	0.15	0.80	62,65,65
		386	0.83	0.15	0.80	62,65,65	387	0.83	0.15	0.80	62,65,65
458	ok	483	0.90	0.0	0.0	78,0,0	482	0.88	0.0	0.0	78,0,0
		512	0.85	0.0	0.0	62,0,0	511	0.84	0.0	0.0	62,0,0
459	ok	504	0.81	0.11	0.92	82,78,81	543	0.81	0.11	0.92	82,78,81
		535	0.81	0.11	0.92	82,78,81	503	0.80	0.11	0.92	82,78,81
460	ok	524	0.80	0.40	0.80	70,65,69	523	0.81	0.40	0.80	70,65,69
		391	0.81	0.40	0.80	70,65,69	392	0.80	0.40	0.80	70,65,69
461	ok	531	0.79	0.54	0.80	82,62,69	525	0.80	0.54	0.80	82,62,69
		393	0.80	0.54	0.80	82,62,69	394	0.80	0.54	0.80	62,62,69
462	ok	536	0.81	0.21	0.79	70,62,62	540	0.81	0.21	0.79	62,62,62
		522	0.81	0.21	0.79	62,62,62	523	0.81	0.21	0.79	62,62,62
463	ok	478	0.84	0.0	0.0	62,0,0	477	0.85	0.0	0.0	62,0,0
		529	0.85	0.0	0.0	62,0,0	516	0.84	0.0	0.0	62,0,0
464	ok	549	0.82	0.12	0.79	62,62,62	544	0.83	0.12	0.79	62,62,62
		519	0.82	0.12	0.79	62,62,62	520	0.82	0.12	0.79	62,62,62
465	ok	553	0.84	0.0	0.0	62,0,0	516	0.83	0.0	0.0	62,0,0
		529	0.84	0.0	0.0	62,0,0	517	0.84	0.0	0.0	62,0,0
466	ok	528	0.81	0.42	0.93	82,62,81	500	0.82	0.42	0.93	80,62,81
		556	0.84	0.42	0.93	66,62,81	578	0.81	0.42	0.93	66,62,81
467	ok	492	0.85	0.0	0.0	78,0,0	506	0.82	0.0	0.0	82,0,0
		505	0.82	0.0	0.0	82,0,0	493	0.84	0.0	0.0	78,0,0
468	ok	495	0.82	0.13	0.87	82,77,81	503	0.80	0.13	0.87	80,77,81
		502	0.80	0.13	0.87	80,77,81	496	0.81	0.13	0.87	67,77,81
469	ok	557	0.79	0.46	0.80	62,62,62	555	0.80	0.46	0.80	82,62,62
		525	0.80	0.46	0.80	82,62,62	531	0.78	0.46	0.80	62,62,62
470	ok	25	0.89	0.58	0.86	62,62,62	531	0.80	0.58	0.86	82,62,62
		394	0.82	0.58	0.86	62,62,62	15	0.91	0.58	0.86	62,62,62
471	ok	494	0.83	0.10	0.85	78,77,81	504	0.81	0.10	0.85	82,77,81
		503	0.81	0.10	0.85	82,77,81	495	0.81	0.10	0.85	82,85,81



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472	ok	485	0.42	0.0	0.0	78,0,0	484	0.65	0.0	0.0	78,0,0
		510	0.84	0.0	0.0	78,0,0	509	0.84	0.0	0.0	78,0,0
473	ok	551	0.81	0.0	0.0	78,0,0	572	0.83	0.0	0.0	78,0,0
		566	0.82	0.0	0.0	78,0,0	552	0.81	0.0	0.0	82,0,0
474	ok	515	0.84	0.0	0.0	62,0,0	479	0.85	0.0	0.0	62,0,0
		478	0.86	0.0	0.0	62,0,0	516	0.85	0.0	0.0	62,0,0
475	ok	568	0.81	0.26	0.80	62,62,78	559	0.82	0.26	0.80	62,62,78
		536	0.81	0.26	0.80	62,62,78	537	0.80	0.26	0.80	62,62,78
476	ok	513	0.85	0.0	0.0	62,0,0	481	0.87	0.0	0.0	62,0,0
		480	0.87	0.0	0.0	62,0,0	514	0.85	0.0	0.0	62,0,0
477	ok	510	0.84	0.0	0.0	62,0,0	484	0.66	0.0	0.0	78,0,0
		483	0.89	0.0	0.0	78,0,0	511	0.84	0.0	0.0	78,0,0
478	ok	496	0.81	0.17	0.93	82,61,81	502	0.81	0.17	0.93	80,61,81
		501	0.80	0.17	0.93	80,61,81	497	0.81	0.17	0.93	67,69,81
479	ok	563	0.82	0.15	0.80	62,62,78	565	0.82	0.15	0.80	62,62,78
		550	0.82	0.15	0.80	62,62,78	540	0.81	0.15	0.80	62,62,78
480	ok	493	0.84	0.09	0.84	78,81,81	505	0.81	0.09	0.84	82,81,81
		504	0.81	0.09	0.84	82,81,81	494	0.83	0.09	0.84	78,81,81
481	ok	517	0.84	0.0	0.0	62,0,0	529	0.84	0.0	0.0	62,0,0
		384	0.84	0.0	0.0	62,0,0	385	0.84	0.0	0.0	62,0,0
482	ok	522	0.81	0.27	0.80	70,65,69	521	0.81	0.27	0.80	70,65,69
		389	0.82	0.27	0.80	70,65,69	390	0.81	0.27	0.80	70,65,69
483	ok	24	0.85	0.67	0.92	78,77,81	578	0.79	0.67	0.92	66,77,81
		532	0.79	0.67	0.92	66,77,81	26	0.86	0.67	0.92	78,85,81
484	ok	502	0.80	0.22	0.93	82,62,81	534	0.81	0.22	0.93	82,62,81
		533	0.80	0.22	0.93	78,62,81	501	0.80	0.22	0.93	80,62,81
485	ok	488	0.46	0.0	0.0	78,0,0	526	0.42	0.0	0.0	78,0,0
		530	0.72	0.0	0.0	78,0,0	489	0.68	0.0	0.0	78,0,0
486	ok	530	0.77	0.0	0.0	78,0,0	486	0.21	0.0	0.0	78,0,0
		485	0.41	0.0	0.0	78,0,0	509	0.83	0.0	0.0	78,0,0
487	ok	520	0.82	0.18	0.80	70,65,65	519	0.82	0.18	0.80	70,65,65
		387	0.83	0.18	0.80	62,65,65	388	0.82	0.18	0.80	62,65,65
488	ok	498	0.81	0.32	0.87	80,81,78	500	0.82	0.32	0.87	80,81,78
		528	0.81	0.32	0.87	80,81,78	499	0.80	0.32	0.87	80,81,78
489	ok	509	0.85	0.0	0.0	78,0,0	510	0.84	0.0	0.0	78,0,0
		545	0.83	0.0	0.0	78,0,0	554	0.83	0.0	0.0	78,0,0
490	ok	543	0.81	0.15	0.86	82,62,78	564	0.82	0.15	0.86	78,62,78
		562	0.82	0.15	0.86	78,62,78	535	0.81	0.15	0.86	82,62,78
491	ok	514	0.84	0.0	0.0	62,0,0	515	0.85	0.0	0.0	62,0,0
		546	0.84	0.0	0.0	62,0,0	542	0.83	0.0	0.0	62,0,0
492	ok	497	0.80	0.23	0.89	80,81,84	501	0.81	0.23	0.89	80,81,84
		500	0.81	0.23	0.89	80,81,84	498	0.81	0.23	0.89	64,81,84
493	ok	547	0.83	0.0	0.0	62,0,0	553	0.83	0.0	0.0	62,0,0
		517	0.84	0.0	0.0	62,0,0	518	0.83	0.0	0.0	62,0,0
494	ok	530	0.71	0.0	0.0	78,0,0	509	0.84	0.0	0.0	78,0,0
		554	0.83	0.0	0.0	78,0,0	508	0.83	0.0	0.0	78,0,0



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495	ok	540	0.81	0.17	0.79	70,62,62	550	0.82	0.17	0.79	62,62,62
		521	0.82	0.17	0.79	62,62,62	522	0.81	0.17	0.79	62,62,62
496	ok	550	0.82	0.14	0.79	62,62,62	549	0.82	0.14	0.79	62,62,62
		520	0.82	0.14	0.79	70,62,62	521	0.82	0.14	0.79	62,62,62
497	ok	554	0.83	0.0	0.0	78,0,0	545	0.83	0.0	0.0	78,0,0
		569	0.83	0.0	0.0	78,0,0	548	0.82	0.0	0.0	78,0,0
498	ok	552	0.81	0.12	0.86	82,62,78	566	0.82	0.12	0.86	78,62,78
		564	0.82	0.12	0.86	78,62,78	543	0.81	0.12	0.86	82,62,78
499	ok	545	0.84	0.0	0.0	62,0,0	510	0.85	0.0	0.0	62,0,0
		511	0.84	0.0	0.0	78,0,0	541	0.83	0.0	0.0	62,0,0
500	ok	537	0.81	0.26	0.80	62,69,62	536	0.81	0.26	0.79	70,69,62
		523	0.81	0.26	0.80	70,69,62	524	0.80	0.26	0.80	70,69,62
501	ok	555	0.80	0.34	0.80	62,62,62	537	0.81	0.34	0.80	62,62,62
		524	0.80	0.34	0.80	62,62,62	525	0.80	0.34	0.80	62,62,62
502	ok	559	0.81	0.20	0.80	62,62,78	563	0.82	0.20	0.80	62,62,78
		540	0.81	0.20	0.80	62,62,78	536	0.81	0.20	0.80	62,62,78
503	ok	569	0.82	0.0	0.0	78,0,0	545	0.83	0.0	0.0	78,0,0
		541	0.83	0.0	0.0	78,0,0	572	0.83	0.0	0.0	78,0,0
504	ok	507	0.82	0.0	0.0	78,0,0	548	0.82	0.0	0.0	78,0,0
		551	0.82	0.0	0.0	78,0,0	506	0.82	0.0	0.0	82,0,0
505	ok	538	0.83	0.0	0.0	62,0,0	513	0.84	0.0	0.0	62,0,0
		514	0.84	0.0	0.0	62,0,0	542	0.83	0.0	0.0	62,0,0
506	ok	539	0.84	0.0	0.0	62,0,0	512	0.85	0.0	0.0	62,0,0
		513	0.85	0.0	0.0	62,0,0	538	0.84	0.0	0.0	62,0,0
507	ok	567	0.82	0.08	0.79	62,62,62	571	0.83	0.08	0.79	62,62,62
		544	0.82	0.08	0.79	62,62,62	549	0.82	0.08	0.79	62,62,62
508	ok	535	0.81	0.19	0.87	82,62,78	562	0.82	0.19	0.87	78,62,78
		558	0.81	0.19	0.87	78,62,78	534	0.80	0.19	0.87	82,62,78
509	ok	579	0.82	0.19	0.81	62,62,78	576	0.82	0.19	0.81	62,62,78
		563	0.82	0.19	0.81	62,62,78	559	0.81	0.19	0.81	62,62,78
510	ok	542	0.83	0.0	0.0	62,0,0	546	0.84	0.0	0.0	62,0,0
		570	0.83	0.0	0.0	62,0,0	571	0.82	0.0	0.0	62,0,0
511	ok	556	0.83	0.42	0.81	66,62,78	573	0.80	0.42	0.81	62,62,78
		555	0.80	0.42	0.81	82,62,78	557	0.79	0.42	0.81	66,62,78
512	ok	533	0.81	0.35	0.83	62,62,78	568	0.81	0.35	0.83	62,62,78
		573	0.80	0.35	0.83	78,62,78	556	0.82	0.35	0.83	66,62,78
513	ok	561	0.83	0.0	0.0	62,0,0	539	0.84	0.0	0.0	62,0,0
		538	0.83	0.0	0.0	62,0,0	560	0.83	0.0	0.0	78,0,0
514	ok	501	0.80	0.32	0.89	80,62,81	533	0.81	0.32	0.89	78,62,81
		556	0.81	0.32	0.89	66,62,81	500	0.80	0.32	0.89	80,62,81
515	ok	544	0.83	0.09	0.79	62,62,62	547	0.83	0.09	0.79	62,62,62
		518	0.83	0.09	0.79	62,62,62	519	0.82	0.09	0.79	62,62,62
516	ok	565	0.82	0.11	0.80	62,74,78	567	0.82	0.11	0.80	78,74,78
		549	0.82	0.11	0.80	62,74,78	550	0.82	0.11	0.80	62,74,78
517	ok	566	0.82	0.11	0.82	78,62,78	575	0.82	0.11	0.82	78,62,78
		577	0.82	0.11	0.82	78,62,78	564	0.82	0.11	0.82	78,62,78



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518	ok	562	0.81	0.19	0.82	62,62,78	576	0.82	0.19	0.82	62,62,78
		579	0.82	0.19	0.82	78,62,78	558	0.81	0.19	0.82	78,62,78
519	ok	541	0.84	0.0	0.0	62,0,0	539	0.83	0.0	0.0	62,0,0
		561	0.83	0.0	0.0	62,0,0	572	0.83	0.0	0.0	62,0,0
520	ok	538	0.83	0.0	0.0	62,0,0	542	0.83	0.0	0.0	62,0,0
		571	0.83	0.0	0.0	62,0,0	560	0.83	0.0	0.0	62,0,0
521	ok	572	0.83	0.0	0.0	78,0,0	561	0.83	0.0	0.0	78,0,0
		575	0.83	0.0	0.0	78,0,0	566	0.82	0.0	0.0	62,0,0
522	ok	576	0.82	0.15	0.81	62,62,78	577	0.82	0.15	0.81	62,62,78
		565	0.82	0.15	0.81	62,62,78	563	0.82	0.15	0.81	62,62,78
523	ok	564	0.82	0.15	0.82	78,62,78	577	0.82	0.15	0.82	78,62,78
		576	0.82	0.15	0.82	78,62,78	562	0.81	0.15	0.82	62,62,78
524	ok	573	0.81	0.33	0.80	62,62,78	568	0.81	0.33	0.80	62,62,78
		537	0.81	0.33	0.81	62,62,78	555	0.80	0.33	0.81	62,62,78
525	ok	575	0.83	0.0	0.0	62,0,0	561	0.83	0.0	0.0	62,0,0
		560	0.82	0.0	0.0	62,0,0	574	0.82	0.0	0.0	78,0,0
526	ok	577	0.82	0.11	0.80	62,62,78	574	0.83	0.11	0.80	62,62,78
		567	0.82	0.11	0.80	78,62,78	565	0.82	0.11	0.80	62,62,78
527	ok	534	0.80	0.26	0.85	82,62,78	558	0.81	0.26	0.85	78,62,78
		568	0.81	0.26	0.85	78,62,78	533	0.81	0.26	0.85	78,62,78
528	ok	548	0.82	0.0	0.0	78,0,0	569	0.83	0.0	0.0	78,0,0
		572	0.83	0.0	0.0	78,0,0	551	0.81	0.0	0.0	78,0,0
529	ok	574	0.82	0.0	0.0	62,0,0	560	0.83	0.0	0.0	62,0,0
		571	0.83	0.0	0.0	62,0,0	567	0.82	0.0	0.0	62,0,0
530	ok	558	0.82	0.24	0.81	62,62,78	579	0.82	0.24	0.81	62,62,78
		559	0.81	0.24	0.81	62,62,78	568	0.81	0.24	0.81	62,62,78
531	ok	532	0.78	0.67	0.80	62,62,62	557	0.79	0.50	0.81	62,62,62
		531	0.78	0.55	0.81	62,62,62					
532	ok	577	0.82	0.10	0.82	62,62,78	575	0.82	0.12	0.84	62,62,78
		574	0.82	0.09	0.80	78,62,62					
533	ok	594	0.42	0.0	0.0	61,0,0	634	0.70	0.0	0.0	66,0,0
		613	0.81	0.0	0.0	66,0,0	595	0.33	0.0	0.0	66,0,0
534	ok	595	0.49	0.13	0.80	61,61,69	613	0.83	0.13	0.80	61,61,69
		612	0.82	0.13	0.80	61,61,69	596	0.37	0.13	0.80	61,61,69
535	ok	627	0.80	0.42	0.80	64,62,90	495	0.81	0.42	0.80	87,62,90
		496	0.81	0.42	0.80	87,62,90	628	0.80	0.42	0.80	64,62,90
536	ok	581	0.80	0.12	0.80	78,69,61	475	0.17	0.12	0.80	78,69,61
		488	0.51	0.12	0.80	78,69,61	631	0.78	0.12	0.80	78,69,61
537	ok	631	0.79	0.08	0.80	78,61,61	488	0.49	0.08	0.80	78,61,61
		489	0.66	0.08	0.80	78,61,65	635	0.83	0.08	0.80	78,61,61
538	ok	661	0.87	0.34	0.86	61,65,88	662	0.80	0.34	0.86	64,65,88
		637	0.78	0.34	0.86	64,65,88	683	0.78	0.34	0.86	67,65,88
539	ok	637	0.80	0.45	0.80	64,65,65	636	0.80	0.45	0.80	80,65,65
		34	0.78	0.45	0.80	64,65,65	35	0.88	0.45	0.80	87,65,65
540	ok	604	0.91	0.53	0.87	85,85,85	633	0.79	0.53	0.87	64,85,85
		683	0.84	0.53	0.87	77,85,85	33	0.92	0.53	0.87	87,85,85



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541	ok	629	0.80	0.58	0.88	64,62,85	497	0.81	0.58	0.88	80,62,85
		498	0.80	0.58	0.88	64,62,85	630	0.79	0.58	0.88	64,62,85
542	ok	597	0.75	0.20	0.80	61,65,69	611	0.84	0.20	0.80	61,65,69
		610	0.84	0.20	0.80	61,65,69	598	0.61	0.20	0.80	61,65,69
543	ok	607	0.89	0.15	0.84	61,62,85	639	0.89	0.15	0.84	61,62,85
		638	0.89	0.15	0.84	61,62,85	606	0.88	0.15	0.84	61,62,85
544	ok	659	0.83	0.0	0.0	66,0,0	651	0.84	0.0	0.0	61,0,0
		674	0.83	0.0	0.0	66,0,0	653	0.83	0.0	0.0	66,0,0
545	ok	580	0.14	0.13	0.81	61,74,66	592	0.45	0.13	0.81	66,74,66
		632	0.47	0.13	0.81	86,74,66	593	0.23	0.13	0.81	66,74,66
546	ok	592	0.47	0.0	0.0	86,0,0	591	0.49	0.0	0.0	86,0,0
		634	0.67	0.0	0.0	66,0,0	632	0.45	0.0	0.0	66,0,0
547	ok	593	0.34	0.0	0.0	61,0,0	632	0.43	0.0	0.0	86,0,0
		634	0.73	0.0	0.0	86,0,0	594	0.28	0.0	0.0	66,0,0
548	ok	615	0.73	0.0	0.0	66,0,0	616	0.76	0.0	0.0	80,0,0
		646	0.83	0.0	0.0	82,0,0	651	0.83	0.0	0.0	82,0,0
549	ok	587	0.31	0.0	0.0	84,0,0	586	0.52	0.0	0.0	84,0,0
		618	0.85	0.0	0.0	78,0,0	617	0.84	0.0	0.0	78,0,0
550	ok	588	0.13	0.0	0.0	84,0,0	587	0.31	0.0	0.0	84,0,0
		617	0.85	0.0	0.0	82,0,0	616	0.82	0.0	0.0	82,0,0
551	ok	621	0.82	0.0	0.0	78,0,0	635	0.83	0.0	0.0	78,0,0
		622	0.83	0.0	0.0	78,0,0	658	0.82	0.0	0.0	78,0,0
552	ok	625	0.81	0.28	0.79	82,62,74	493	0.82	0.28	0.79	82,62,74
		494	0.82	0.28	0.79	78,62,74	626	0.79	0.28	0.79	64,62,74
553	ok	619	0.84	0.0	0.0	78,0,0	620	0.84	0.0	0.0	78,0,0
		650	0.83	0.0	0.0	78,0,0	647	0.82	0.0	0.0	82,0,0
554	ok	622	0.82	0.14	0.79	78,62,62	490	0.86	0.14	0.79	78,62,62
		491	0.86	0.14	0.79	78,62,62	623	0.81	0.14	0.79	78,62,62
555	ok	583	0.86	0.0	0.0	78,0,0	582	0.86	0.0	0.0	78,0,0
		635	0.84	0.0	0.0	78,0,0	621	0.83	0.0	0.0	78,0,0
556	ok	585	0.72	0.0	0.0	78,0,0	584	0.88	0.0	0.0	78,0,0
		620	0.85	0.0	0.0	78,0,0	619	0.84	0.0	0.0	78,0,0
557	ok	623	0.82	0.19	0.79	82,62,62	491	0.85	0.19	0.79	78,62,62
		492	0.85	0.19	0.79	78,62,62	624	0.80	0.19	0.79	82,62,62
558	ok	609	0.87	0.09	0.83	61,85,85	648	0.87	0.09	0.82	61,85,85
		640	0.86	0.09	0.82	61,85,85	608	0.86	0.09	0.83	61,85,85
559	ok	628	0.80	0.51	0.85	64,62,88	496	0.80	0.51	0.85	64,62,88
		497	0.80	0.51	0.85	67,62,88	629	0.80	0.51	0.85	64,62,88
560	ok	630	0.80	0.58	0.81	80,62,85	498	0.82	0.58	0.81	80,62,85
		499	0.80	0.58	0.81	80,62,85	636	0.79	0.58	0.81	80,62,85
561	ok	645	0.92	0.18	0.81	77,78,85	627	0.80	0.18	0.81	80,78,85
		628	0.80	0.18	0.81	82,78,85	641	0.89	0.18	0.81	77,78,85
562	ok	591	0.49	0.0	0.0	86,0,0	590	0.38	0.0	0.0	86,0,0
		614	0.78	0.0	0.0	66,0,0	634	0.70	0.0	0.0	86,0,0
563	ok	590	0.39	0.0	0.0	86,0,0	589	0.23	0.0	0.0	86,0,0
		615	0.75	0.0	0.0	86,0,0	614	0.79	0.0	0.0	86,0,0



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564	ok	656	0.85	0.0	0.0	61,0,0	677	0.85	0.0	0.0	61,0,0
		671	0.84	0.0	0.0	61,0,0	657	0.84	0.0	0.0	61,0,0
565	ok	605	0.90	0.30	0.87	77,65,85	661	0.87	0.30	0.87	61,65,85
		683	0.78	0.30	0.87	64,65,85	633	0.86	0.30	0.87	61,65,85
566	ok	655	0.87	0.15	0.81	77,78,85	626	0.80	0.15	0.81	82,78,85
		627	0.80	0.15	0.81	82,78,85	645	0.87	0.15	0.81	77,78,85
567	ok	611	0.85	0.0	0.0	61,0,0	656	0.85	0.0	0.0	61,0,0
		657	0.84	0.0	0.0	61,0,0	610	0.85	0.0	0.0	61,0,0
568	ok	600	0.92	0.35	0.85	77,65,81	608	0.88	0.35	0.85	61,65,81
		607	0.86	0.35	0.85	61,65,81	601	0.93	0.35	0.85	77,65,81
569	ok	620	0.83	0.0	0.0	78,0,0	621	0.83	0.0	0.0	78,0,0
		658	0.83	0.0	0.0	78,0,0	650	0.83	0.0	0.0	78,0,0
570	ok	660	0.83	0.28	0.82	77,65,78	630	0.81	0.28	0.82	80,65,78
		636	0.79	0.28	0.82	80,65,78	662	0.79	0.28	0.82	61,65,78
571	ok	636	0.80	0.49	0.80	64,78,78	499	0.87	0.49	0.81	78,78,78
		24	0.78	0.49	0.81	64,78,78	34	0.79	0.49	0.81	64,78,78
572	ok	599	0.91	0.29	0.82	77,65,69	609	0.86	0.29	0.82	61,65,69
		608	0.86	0.29	0.82	61,65,69	600	0.93	0.29	0.82	77,65,69
573	ok	584	0.86	0.0	0.0	78,0,0	583	0.87	0.0	0.0	78,0,0
		621	0.84	0.0	0.0	78,0,0	620	0.84	0.0	0.0	78,0,0
574	ok	664	0.90	0.15	0.84	77,65,78	641	0.90	0.15	0.84	77,65,78
		642	0.87	0.15	0.84	77,65,78	673	0.90	0.15	0.84	61,65,78
575	ok	586	0.52	0.0	0.0	78,0,0	585	0.72	0.0	0.0	78,0,0
		619	0.85	0.0	0.0	78,0,0	618	0.84	0.0	0.0	78,0,0
576	ok	589	0.24	0.0	0.0	86,0,0	588	0.13	0.0	0.0	88,0,0
		616	0.83	0.0	0.0	80,0,0	615	0.75	0.0	0.0	86,0,0
577	ok	602	0.93	0.48	0.81	77,65,78	606	0.91	0.48	0.81	61,65,78
		605	0.90	0.48	0.81	61,65,78	603	0.92	0.48	0.81	85,65,78
578	ok	658	0.81	0.0	0.0	78,0,0	622	0.82	0.0	0.0	78,0,0
		623	0.82	0.0	0.0	78,0,0	652	0.81	0.0	0.0	82,0,0
579	ok	601	0.93	0.41	0.93	77,65,84	607	0.89	0.41	0.93	61,65,84
		606	0.87	0.41	0.93	61,65,84	602	0.93	0.41	0.93	77,65,84
580	ok	598	0.90	0.24	0.81	77,65,69	610	0.85	0.24	0.81	61,65,69
		609	0.85	0.24	0.81	61,65,69	599	0.77	0.24	0.81	61,65,69
581	ok	635	0.83	0.09	0.79	78,65,65	489	0.70	0.09	0.79	78,65,65
		490	0.86	0.09	0.79	78,65,65	622	0.82	0.09	0.79	78,65,65
582	ok	626	0.80	0.34	0.79	80,62,74	494	0.82	0.34	0.79	87,62,74
		495	0.80	0.34	0.79	80,62,74	627	0.80	0.34	0.79	80,62,74
583	ok	670	0.86	0.08	0.82	77,78,78	655	0.85	0.08	0.82	77,78,78
		645	0.88	0.08	0.82	77,78,78	668	0.87	0.08	0.82	61,78,78
584	ok	610	0.86	0.0	0.0	61,0,0	657	0.86	0.0	0.0	61,0,0
		648	0.85	0.0	0.0	61,0,0	609	0.85	0.0	0.0	61,0,0
585	ok	582	0.84	0.0	0.0	78,0,0	581	0.82	0.0	0.0	78,0,0
		631	0.77	0.0	0.0	78,0,0	635	0.82	0.0	0.0	78,0,0
586	ok	634	0.67	0.0	0.0	66,0,0	614	0.76	0.0	0.0	66,0,0
		659	0.82	0.0	0.0	66,0,0	613	0.83	0.0	0.0	66,0,0



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587	ok	614	0.76	0.0	0.0	66,0,0	615	0.73	0.0	0.0	66,0,0
		651	0.83	0.0	0.0	80,0,0	659	0.83	0.0	0.0	66,0,0
588	ok	624	0.80	0.23	0.79	82,62,74	492	0.84	0.23	0.79	78,62,74
		493	0.84	0.23	0.79	78,62,74	625	0.80	0.23	0.79	82,62,74
589	ok	603	0.93	0.59	0.81	77,65,65	605	0.89	0.59	0.81	61,65,65
		633	0.86	0.59	0.81	77,65,65	604	0.89	0.59	0.81	87,65,65
590	ok	596	0.60	0.17	0.80	61,65,69	612	0.84	0.17	0.80	61,65,69
		611	0.83	0.17	0.80	61,65,69	597	0.48	0.17	0.80	61,65,69
591	ok	648	0.86	0.0	0.0	61,0,0	669	0.87	0.0	0.0	61,0,0
		667	0.86	0.0	0.0	61,0,0	640	0.85	0.0	0.0	61,0,0
592	ok	616	0.76	0.0	0.0	82,0,0	617	0.85	0.0	0.0	82,0,0
		644	0.83	0.0	0.0	82,0,0	646	0.83	0.0	0.0	82,0,0
593	ok	649	0.81	0.0	0.0	82,0,0	624	0.81	0.0	0.0	82,0,0
		625	0.81	0.0	0.0	82,0,0	654	0.81	0.0	0.0	82,0,0
594	ok	618	0.84	0.0	0.0	82,0,0	619	0.84	0.0	0.0	82,0,0
		647	0.83	0.0	0.0	82,0,0	643	0.83	0.0	0.0	82,0,0
595	ok	608	0.88	0.11	0.83	61,85,85	640	0.87	0.11	0.83	61,85,85
		639	0.87	0.11	0.83	61,85,85	607	0.87	0.11	0.83	61,85,85
596	ok	683	0.82	0.45	0.93	64,85,85	637	0.79	0.45	0.93	64,85,85
		35	0.79	0.45	0.93	67,85,85	33	0.91	0.45	0.93	87,85,85
597	ok	613	0.83	0.0	0.0	61,0,0	659	0.83	0.0	0.0	61,0,0
		653	0.83	0.0	0.0	66,0,0	612	0.83	0.0	0.0	61,0,0
598	ok	675	0.82	0.0	0.0	82,0,0	652	0.82	0.0	0.0	82,0,0
		649	0.81	0.0	0.0	82,0,0	676	0.81	0.0	0.0	82,0,0
599	ok	654	0.80	0.12	0.83	82,78,85	625	0.81	0.12	0.83	82,78,85
		626	0.79	0.12	0.83	82,78,85	655	0.83	0.12	0.83	77,78,85
600	ok	657	0.85	0.0	0.0	61,0,0	671	0.86	0.0	0.0	61,0,0
		669	0.85	0.0	0.0	61,0,0	648	0.85	0.0	0.0	61,0,0
601	ok	641	0.90	0.21	0.80	77,78,65	628	0.80	0.21	0.80	80,78,65
		629	0.80	0.21	0.80	80,78,65	642	0.88	0.21	0.80	77,78,65
602	ok	642	0.88	0.23	0.80	77,78,78	629	0.80	0.23	0.81	80,78,78
		630	0.79	0.23	0.81	80,78,78	660	0.83	0.23	0.81	77,78,78
603	ok	668	0.88	0.10	0.82	77,65,78	645	0.91	0.10	0.82	77,65,78
		641	0.90	0.10	0.82	77,65,78	664	0.89	0.10	0.82	77,65,78
604	ok	676	0.81	0.0	0.0	82,0,0	649	0.80	0.0	0.0	82,0,0
		654	0.81	0.0	0.0	82,0,0	672	0.84	0.0	0.0	61,0,0
605	ok	651	0.83	0.0	0.0	66,0,0	646	0.83	0.0	0.0	61,0,0
		677	0.83	0.0	0.0	61,0,0	674	0.83	0.0	0.0	61,0,0
606	ok	612	0.84	0.0	0.0	61,0,0	653	0.84	0.0	0.0	61,0,0
		656	0.84	0.0	0.0	61,0,0	611	0.84	0.0	0.0	61,0,0
607	ok	650	0.82	0.0	0.0	82,0,0	658	0.82	0.0	0.0	78,0,0
		652	0.81	0.0	0.0	78,0,0	675	0.82	0.0	0.0	82,0,0
608	ok	617	0.84	0.0	0.0	82,0,0	618	0.85	0.0	0.0	82,0,0
		643	0.83	0.0	0.0	82,0,0	644	0.83	0.0	0.0	82,0,0
609	ok	640	0.87	0.11	0.92	61,62,85	667	0.88	0.11	0.92	61,62,85
		663	0.87	0.11	0.92	61,62,85	639	0.86	0.11	0.92	61,62,85



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610	ok	681	0.87	0.10	0.87	61,65,78	668	0.89	0.10	0.87	77,65,78
		664	0.89	0.10	0.87	61,65,78	684	0.87	0.10	0.87	61,65,78
611	ok	647	0.82	0.0	0.0	82,0,0	650	0.83	0.0	0.0	78,0,0
		675	0.82	0.0	0.0	82,0,0	676	0.81	0.0	0.0	82,0,0
612	ok	678	0.87	0.27	0.89	77,65,84	660	0.83	0.27	0.89	77,65,84
		662	0.79	0.27	0.89	64,65,84	661	0.87	0.27	0.89	61,65,84
613	ok	638	0.91	0.22	0.88	61,65,84	673	0.90	0.22	0.88	61,65,84
		678	0.88	0.22	0.88	61,65,84	661	0.87	0.22	0.88	61,65,92
614	ok	644	0.83	0.0	0.0	61,0,0	643	0.83	0.0	0.0	82,0,0
		665	0.84	0.0	0.0	61,0,0	666	0.83	0.0	0.0	61,0,0
615	ok	606	0.90	0.22	0.87	61,62,85	638	0.91	0.22	0.87	61,62,85
		661	0.87	0.22	0.87	61,62,85	605	0.90	0.22	0.87	61,62,85
616	ok	652	0.81	0.0	0.0	82,0,0	623	0.81	0.0	0.0	82,0,0
		624	0.81	0.0	0.0	82,0,0	649	0.81	0.0	0.0	82,0,0
617	ok	672	0.85	0.0	0.0	61,0,0	654	0.80	0.0	0.0	82,0,0
		655	0.83	0.0	0.0	77,0,0	670	0.86	0.0	0.0	61,0,0
618	ok	671	0.85	0.0	0.0	61,0,0	680	0.86	0.0	0.0	61,0,0
		682	0.85	0.0	0.0	61,0,0	669	0.84	0.0	0.0	61,0,0
619	ok	667	0.87	0.11	0.91	61,65,84	681	0.88	0.11	0.91	61,65,84
		684	0.87	0.11	0.91	61,65,84	663	0.86	0.11	0.91	61,65,84
620	ok	646	0.83	0.0	0.0	61,0,0	644	0.84	0.0	0.0	61,0,0
		666	0.84	0.0	0.0	61,0,0	677	0.83	0.0	0.0	61,0,0
621	ok	643	0.82	0.0	0.0	82,0,0	647	0.82	0.0	0.0	82,0,0
		676	0.82	0.0	0.0	82,0,0	665	0.83	0.0	0.0	61,0,0
622	ok	677	0.84	0.0	0.0	61,0,0	666	0.85	0.0	0.0	61,0,0
		680	0.84	0.0	0.0	61,0,0	671	0.84	0.0	0.0	61,0,0
623	ok	682	0.86	0.0	0.0	61,0,0	670	0.88	0.0	0.0	77,0,0
		668	0.88	0.0	0.0	61,0,0	681	0.86	0.0	0.0	61,0,0
624	ok	669	0.86	0.0	0.0	61,0,0	682	0.87	0.0	0.0	61,0,0
		681	0.86	0.0	0.0	61,0,0	667	0.85	0.0	0.0	61,0,0
625	ok	673	0.91	0.21	0.85	77,65,78	642	0.87	0.21	0.85	77,65,78
		660	0.83	0.21	0.85	77,65,78	678	0.87	0.21	0.85	77,65,78
626	ok	666	0.84	0.0	0.0	61,0,0	665	0.85	0.0	0.0	61,0,0
		679	0.85	0.0	0.0	61,0,0	680	0.84	0.0	0.0	61,0,0
627	ok	679	0.85	0.0	0.0	61,0,0	672	0.86	0.0	0.0	61,0,0
		670	0.87	0.0	0.0	61,0,0	682	0.85	0.0	0.0	61,0,0
628	ok	639	0.88	0.16	0.84	61,65,85	663	0.89	0.16	0.84	61,65,85
		673	0.90	0.16	0.84	61,65,85	638	0.88	0.16	0.84	61,65,85
629	ok	653	0.84	0.0	0.0	61,0,0	674	0.83	0.0	0.0	61,0,0
		677	0.83	0.0	0.0	61,0,0	656	0.84	0.0	0.0	61,0,0
630	ok	665	0.84	0.0	0.0	61,0,0	676	0.82	0.0	0.0	82,0,0
		672	0.85	0.0	0.0	61,0,0	679	0.84	0.0	0.0	61,0,0
631	ok	663	0.89	0.14	0.92	61,65,84	684	0.88	0.14	0.92	61,65,84
		664	0.91	0.14	0.92	77,65,84	673	0.90	0.14	0.93	61,65,84
632	ok	637	0.78	0.41	0.92	64,65,84	662	0.80	0.29	0.87	64,65,84
		636	0.79	0.34	0.82	64,65,84					



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633	ok	680	0.85	0.0	0.0	61,0,0	679	0.86	0.0	0.0	61,0,0
		682	0.85	0.0	0.0	61,0,0					
634	ok	738	0.81	0.51	0.80	65,62,62	788	0.83	0.51	0.80	89,62,62
		42	0.81	0.51	0.80	89,62,62	709	0.83	0.51	0.80	89,62,62
635	ok	756	0.84	0.0	0.0	86,0,0	779	0.83	0.0	0.0	78,0,0
		758	0.83	0.0	0.0	86,0,0	764	0.84	0.0	0.0	86,0,0
636	ok	731	0.86	0.15	0.82	61,90,90	599	0.53	0.15	0.82	87,90,90
		600	0.81	0.15	0.82	61,90,90	732	0.86	0.15	0.82	61,90,90
637	ok	686	0.40	0.10	0.80	88,74,74	580	0.12	0.10	0.80	73,74,74
		593	0.21	0.10	0.80	90,74,74	737	0.44	0.10	0.80	88,74,74
638	ok	740	0.64	0.0	0.0	84,0,0	718	0.81	0.0	0.0	84,0,0
		700	0.55	0.0	0.0	72,0,0	699	0.45	0.0	0.0	84,0,0
639	ok	763	0.70	0.0	0.0	66,0,0	727	0.68	0.0	0.0	80,0,0
		728	0.80	0.0	0.0	66,0,0	757	0.83	0.0	0.0	66,0,0
640	ok	766	0.86	0.45	0.83	89,62,85	767	0.86	0.45	0.83	85,62,85
		742	0.83	0.45	0.84	85,62,85	788	0.82	0.45	0.83	85,62,85
641	ok	742	0.83	0.72	0.83	65,78,85	741	0.89	0.72	0.83	67,78,85
		43	0.82	0.72	0.83	65,78,85	44	0.80	0.72	0.83	65,78,85
642	ok	734	0.89	0.30	0.90	77,78,90	602	0.86	0.30	0.90	85,78,90
		603	0.91	0.30	0.90	77,78,90	735	0.87	0.30	0.90	77,78,90
643	ok	717	0.83	0.14	0.80	86,62,62	716	0.83	0.14	0.80	86,62,62
		702	0.84	0.14	0.80	84,62,90	701	0.69	0.14	0.80	84,62,62
644	ok	745	0.86	0.17	0.80	66,62,65	744	0.85	0.17	0.80	66,62,65
		712	0.86	0.17	0.80	87,62,65	713	0.85	0.17	0.80	66,62,65
645	ok	750	0.87	0.09	0.84	61,85,78	732	0.89	0.09	0.84	61,85,78
		733	0.88	0.09	0.84	61,85,78	746	0.86	0.09	0.84	61,85,78
646	ok	697	0.51	0.0	0.0	78,0,0	736	0.47	0.0	0.0	72,0,0
		698	0.35	0.0	0.0	72,0,0	685	0.13	0.0	0.0	78,0,0
647	ok	697	0.53	0.0	0.0	84,0,0	696	0.65	0.0	0.0	84,0,0
		740	0.59	0.0	0.0	84,0,0	736	0.48	0.0	0.0	84,0,0
648	ok	719	0.75	0.0	0.0	86,0,0	764	0.84	0.0	0.0	84,0,0
		718	0.79	0.0	0.0	84,0,0	740	0.63	0.0	0.0	84,0,0
649	ok	718	0.79	0.11	0.80	86,62,62	717	0.83	0.11	0.80	84,62,62
		701	0.68	0.11	0.80	72,62,90	700	0.56	0.11	0.80	84,62,62
650	ok	720	0.79	0.0	0.0	92,0,0	721	0.81	0.0	0.0	86,0,0
		751	0.83	0.0	0.0	86,0,0	756	0.83	0.0	0.0	78,0,0
651	ok	691	0.30	0.0	0.0	84,0,0	723	0.74	0.0	0.0	84,0,0
		722	0.81	0.0	0.0	84,0,0	692	0.46	0.0	0.0	84,0,0
652	ok	727	0.67	0.10	0.80	80,90,90	595	0.40	0.10	0.80	89,90,90
		596	0.25	0.10	0.80	66,90,90	728	0.81	0.10	0.80	80,90,90
653	ok	730	0.85	0.14	0.81	61,90,90	598	0.50	0.14	0.81	89,90,90
		599	0.63	0.14	0.81	61,90,90	731	0.85	0.14	0.81	61,90,90
654	ok	725	0.55	0.0	0.0	86,0,0	755	0.74	0.0	0.0	86,0,0
		752	0.83	0.0	0.0	86,0,0	724	0.66	0.0	0.0	86,0,0
655	ok	737	0.39	0.0	0.0	88,0,0	593	0.33	0.0	0.0	89,0,0
		594	0.24	0.0	0.0	82,0,0	739	0.65	0.0	0.0	88,0,0



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656	ok	686	0.43	0.0	0.0	88,0,0	737	0.41	0.0	0.0	88,0,0
		739	0.58	0.0	0.0	88,0,0	687	0.41	0.0	0.0	88,0,0
657	ok	690	0.15	0.0	0.0	84,0,0	689	0.11	0.0	0.0	88,0,0
		725	0.57	0.0	0.0	88,0,0	724	0.70	0.0	0.0	84,0,0
658	ok	728	0.83	0.12	0.81	66,90,90	596	0.43	0.12	0.81	89,90,90
		597	0.37	0.12	0.81	61,90,90	729	0.83	0.12	0.81	66,90,90
659	ok	692	0.46	0.0	0.0	84,0,0	722	0.80	0.0	0.0	84,0,0
		721	0.83	0.0	0.0	84,0,0	693	0.59	0.0	0.0	84,0,0
660	ok	733	0.88	0.23	0.84	61,78,90	601	0.69	0.23	0.84	67,78,90
		602	0.92	0.23	0.84	77,78,90	734	0.87	0.23	0.84	61,78,90
661	ok	735	0.88	0.34	0.92	67,78,85	603	0.90	0.34	0.92	89,78,85
		604	0.91	0.34	0.92	61,78,85	741	0.86	0.34	0.92	67,78,85
662	ok	732	0.86	0.17	0.82	61,78,90	600	0.59	0.17	0.82	87,78,90
		601	0.92	0.17	0.82	77,78,90	733	0.87	0.17	0.82	61,78,90
663	ok	687	0.41	0.0	0.0	88,0,0	739	0.63	0.0	0.0	88,0,0
		726	0.65	0.0	0.0	88,0,0	688	0.27	0.0	0.0	88,0,0
664	ok	725	0.55	0.0	0.0	86,0,0	726	0.60	0.0	0.0	88,0,0
		763	0.71	0.0	0.0	88,0,0	755	0.75	0.0	0.0	86,0,0
665	ok	726	0.60	0.0	0.0	82,0,0	739	0.57	0.0	0.0	88,0,0
		727	0.69	0.0	0.0	88,0,0	763	0.71	0.0	0.0	80,0,0
666	ok	710	0.84	0.40	0.80	89,62,85	766	0.86	0.40	0.80	89,62,85
		788	0.82	0.40	0.80	85,62,85	738	0.82	0.40	0.80	89,62,85
667	ok	716	0.84	0.17	0.80	86,62,62	715	0.83	0.17	0.80	66,62,62
		703	0.84	0.17	0.80	78,62,62	702	0.85	0.17	0.80	86,62,62
668	ok	761	0.84	0.09	0.80	66,65,65	762	0.84	0.09	0.80	66,65,65
		715	0.84	0.09	0.80	78,65,65	716	0.84	0.09	0.80	86,65,65
669	ok	713	0.86	0.29	0.80	66,62,66	712	0.85	0.29	0.80	66,62,74
		706	0.84	0.29	0.80	73,62,74	705	0.86	0.29	0.80	73,62,74
670	ok	765	0.87	0.38	0.92	85,65,88	735	0.89	0.38	0.92	85,65,88
		741	0.88	0.38	0.92	67,65,88	767	0.85	0.38	0.92	65,65,88
671	ok	741	0.90	0.44	0.90	67,85,88	604	0.92	0.44	0.90	64,85,88
		33	0.89	0.43	0.90	89,85,88	43	0.80	0.44	0.90	85,85,88
672	ok	714	0.85	0.24	0.80	66,62,66	713	0.85	0.24	0.80	62,62,74
		705	0.85	0.24	0.80	73,62,74	704	0.87	0.24	0.80	65,62,74
673	ok	694	0.65	0.0	0.0	92,0,0	720	0.80	0.0	0.0	84,0,0
		719	0.76	0.0	0.0	84,0,0	695	0.68	0.0	0.0	92,0,0
674	ok	689	0.11	0.0	0.0	88,0,0	688	0.27	0.0	0.0	88,0,0
		726	0.67	0.0	0.0	88,0,0	725	0.57	0.0	0.0	84,0,0
675	ok	769	0.87	0.20	0.80	61,65,65	746	0.88	0.20	0.80	61,65,65
		747	0.87	0.20	0.80	61,65,65	778	0.86	0.20	0.80	61,65,65
676	ok	691	0.31	0.0	0.0	84,0,0	690	0.15	0.0	0.0	84,0,0
		724	0.69	0.0	0.0	84,0,0	723	0.75	0.0	0.0	84,0,0
677	ok	694	0.66	0.0	0.0	92,0,0	693	0.58	0.0	0.0	92,0,0
		721	0.83	0.0	0.0	84,0,0	720	0.80	0.0	0.0	84,0,0
678	ok	712	0.86	0.34	0.80	66,62,86	711	0.84	0.34	0.80	89,62,86
		707	0.84	0.34	0.80	89,62,78	706	0.85	0.34	0.80	89,62,86



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679	ok	775	0.85	0.11	0.83	61,65,74	760	0.87	0.11	0.83	61,65,74
		750	0.86	0.11	0.83	61,65,74	773	0.85	0.11	0.83	61,65,74
680	ok	715	0.84	0.20	0.80	66,62,66	714	0.84	0.20	0.80	62,62,74
		704	0.84	0.20	0.80	62,62,74	703	0.85	0.20	0.80	86,62,74
681	ok	739	0.60	0.0	0.0	80,0,0	594	0.38	0.0	0.0	89,0,0
		595	0.23	0.0	0.0	80,0,0	727	0.76	0.0	0.0	80,0,0
682	ok	760	0.86	0.0	0.0	61,0,0	731	0.88	0.0	0.0	61,0,0
		732	0.87	0.0	0.0	61,0,0	750	0.86	0.0	0.0	61,0,0
683	ok	753	0.86	0.13	0.80	66,62,65	745	0.85	0.13	0.80	66,62,65
		713	0.84	0.13	0.80	62,62,65	714	0.85	0.13	0.80	66,62,65
684	ok	762	0.85	0.11	0.80	66,65,65	753	0.84	0.11	0.80	66,65,65
		714	0.84	0.11	0.80	62,65,65	715	0.84	0.11	0.80	66,65,65
685	ok	788	0.83	0.50	0.80	89,62,62	742	0.83	0.50	0.80	85,62,62
		44	0.80	0.50	0.80	85,62,62	42	0.82	0.50	0.80	85,62,62
686	ok	744	0.86	0.23	0.80	66,62,85	743	0.85	0.23	0.80	89,62,85
		711	0.85	0.23	0.80	89,62,85	712	0.88	0.23	0.80	89,62,85
687	ok	736	0.49	0.0	0.0	84,0,0	740	0.66	0.0	0.0	84,0,0
		699	0.43	0.0	0.0	72,0,0	698	0.33	0.0	0.0	72,0,0
688	ok	696	0.65	0.0	0.0	92,0,0	695	0.68	0.0	0.0	92,0,0
		719	0.75	0.0	0.0	84,0,0	740	0.63	0.0	0.0	84,0,0
689	ok	729	0.84	0.12	0.81	61,90,90	597	0.47	0.12	0.81	89,90,90
		598	0.49	0.12	0.81	61,90,90	730	0.84	0.12	0.81	61,90,90
690	ok	710	0.84	0.48	0.80	89,65,62	738	0.82	0.48	0.80	89,65,62
		709	0.81	0.48	0.80	89,65,62	708	0.83	0.48	0.80	89,65,62
691	ok	782	0.84	0.0	0.0	66,0,0	776	0.84	0.0	0.0	66,0,0
		762	0.83	0.0	0.0	66,0,0	761	0.84	0.0	0.0	66,0,0
692	ok	720	0.79	0.0	0.0	86,0,0	756	0.83	0.0	0.0	78,0,0
		764	0.83	0.0	0.0	84,0,0	719	0.75	0.0	0.0	92,0,0
693	ok	774	0.86	0.12	0.82	66,65,85	772	0.85	0.12	0.82	66,65,85
		745	0.84	0.12	0.82	66,65,85	753	0.85	0.12	0.82	66,65,85
694	ok	722	0.78	0.0	0.0	86,0,0	749	0.83	0.0	0.0	86,0,0
		751	0.83	0.0	0.0	78,0,0	721	0.81	0.0	0.0	92,0,0
695	ok	754	0.84	0.0	0.0	66,0,0	729	0.86	0.0	0.0	61,0,0
		730	0.85	0.0	0.0	61,0,0	759	0.84	0.0	0.0	61,0,0
696	ok	723	0.72	0.0	0.0	86,0,0	724	0.66	0.0	0.0	86,0,0
		752	0.83	0.0	0.0	86,0,0	748	0.83	0.0	0.0	86,0,0
697	ok	711	0.86	0.40	0.80	89,62,62	710	0.83	0.40	0.80	89,62,62
		708	0.82	0.40	0.80	73,62,62	707	0.84	0.40	0.80	89,62,62
698	ok	764	0.84	0.0	0.0	86,0,0	758	0.84	0.0	0.0	78,0,0
		717	0.84	0.0	0.0	78,0,0	718	0.79	0.0	0.0	86,0,0
699	ok	780	0.83	0.0	0.0	66,0,0	757	0.84	0.0	0.0	66,0,0
		754	0.84	0.0	0.0	66,0,0	781	0.84	0.0	0.0	66,0,0
700	ok	759	0.85	0.0	0.0	61,0,0	730	0.87	0.0	0.0	61,0,0
		731	0.86	0.0	0.0	61,0,0	760	0.85	0.0	0.0	61,0,0
701	ok	776	0.85	0.09	0.81	66,65,85	774	0.84	0.09	0.81	66,65,85
		753	0.84	0.09	0.81	66,65,85	762	0.85	0.09	0.81	66,65,85



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702	ok	746	0.87	0.15	0.84	61,85,78	733	0.90	0.15	0.84	61,85,78
		734	0.88	0.15	0.84	61,85,78	747	0.86	0.15	0.84	61,85,78
703	ok	747	0.87	0.24	0.87	61,85,88	734	0.90	0.24	0.87	61,85,88
		735	0.87	0.24	0.87	77,85,88	765	0.86	0.24	0.87	85,85,88
704	ok	773	0.86	0.15	0.89	61,65,88	750	0.87	0.15	0.89	61,65,88
		746	0.87	0.15	0.89	61,65,88	769	0.86	0.15	0.89	61,65,88
705	ok	781	0.84	0.0	0.0	66,0,0	754	0.84	0.0	0.0	66,0,0
		759	0.85	0.0	0.0	66,0,0	777	0.84	0.0	0.0	66,0,0
706	ok	756	0.84	0.0	0.0	86,0,0	751	0.83	0.0	0.0	86,0,0
		782	0.83	0.0	0.0	86,0,0	779	0.84	0.0	0.0	86,0,0
707	ok	758	0.84	0.0	0.0	86,0,0	761	0.83	0.0	0.0	86,0,0
		716	0.84	0.0	0.0	78,0,0	717	0.84	0.0	0.0	86,0,0
708	ok	755	0.75	0.0	0.0	86,0,0	763	0.69	0.0	0.0	66,0,0
		757	0.83	0.0	0.0	66,0,0	780	0.83	0.0	0.0	86,0,0
709	ok	722	0.78	0.0	0.0	92,0,0	723	0.72	0.0	0.0	86,0,0
		748	0.83	0.0	0.0	86,0,0	749	0.83	0.0	0.0	86,0,0
710	ok	772	0.86	0.16	0.82	66,65,85	768	0.85	0.16	0.82	66,65,85
		744	0.85	0.16	0.82	66,65,85	745	0.85	0.16	0.82	66,65,85
711	ok	786	0.85	0.15	0.94	66,65,85	773	0.86	0.15	0.93	61,65,85
		769	0.86	0.15	0.93	61,65,85	789	0.86	0.15	0.93	61,65,85
712	ok	755	0.75	0.0	0.0	66,0,0	780	0.82	0.0	0.0	86,0,0
		781	0.83	0.0	0.0	66,0,0	752	0.83	0.0	0.0	86,0,0
713	ok	783	0.86	0.35	0.94	89,65,85	765	0.87	0.35	0.94	85,65,85
		767	0.85	0.35	0.94	65,65,85	766	0.85	0.35	0.94	85,65,85
714	ok	778	0.88	0.29	0.86	61,65,85	783	0.86	0.29	0.86	85,65,85
		766	0.84	0.29	0.86	85,65,85	743	0.89	0.29	0.86	89,65,85
715	ok	749	0.83	0.0	0.0	86,0,0	748	0.83	0.0	0.0	86,0,0
		770	0.83	0.0	0.0	66,0,0	771	0.83	0.0	0.0	86,0,0
716	ok	743	0.88	0.30	0.81	89,62,85	766	0.83	0.30	0.81	85,62,85
		710	0.83	0.30	0.81	89,62,85	711	0.88	0.30	0.81	89,62,85
717	ok	757	0.83	0.0	0.0	66,0,0	728	0.79	0.0	0.0	66,0,0
		729	0.85	0.0	0.0	61,0,0	754	0.83	0.0	0.0	66,0,0
718	ok	777	0.84	0.0	0.0	66,0,0	759	0.85	0.0	0.0	61,0,0
		760	0.86	0.0	0.0	61,0,0	775	0.84	0.0	0.0	66,0,0
719	ok	785	0.85	0.0	0.0	66,0,0	787	0.84	0.0	0.0	66,0,0
		774	0.84	0.0	0.0	66,0,0	776	0.85	0.0	0.0	66,0,0
720	ok	786	0.86	0.15	0.86	66,65,85	789	0.85	0.15	0.86	61,65,85
		768	0.85	0.15	0.86	61,65,85	772	0.86	0.15	0.86	66,65,85
721	ok	749	0.83	0.0	0.0	86,0,0	771	0.83	0.0	0.0	66,0,0
		782	0.83	0.0	0.0	86,0,0	751	0.84	0.0	0.0	86,0,0
722	ok	752	0.83	0.0	0.0	66,0,0	781	0.83	0.0	0.0	66,0,0
		770	0.83	0.0	0.0	66,0,0	748	0.83	0.0	0.0	86,0,0
723	ok	771	0.84	0.0	0.0	66,0,0	785	0.84	0.0	0.0	66,0,0
		776	0.83	0.0	0.0	66,0,0	782	0.84	0.0	0.0	66,0,0
724	ok	787	0.85	0.11	0.93	66,65,85	775	0.86	0.11	0.93	61,65,85
		773	0.86	0.11	0.93	61,65,85	786	0.85	0.11	0.93	66,65,85



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725	ok	787	0.86	0.12	0.85	66,65,85	786	0.85	0.12	0.85	66,65,85
		772	0.85	0.12	0.85	66,65,85	774	0.85	0.12	0.85	66,65,85
726	ok	778	0.87	0.27	0.87	65,65,85	747	0.88	0.27	0.87	61,65,85
		765	0.86	0.27	0.87	85,65,85	783	0.86	0.27	0.87	85,65,85
727	ok	771	0.83	0.0	0.0	66,0,0	770	0.84	0.0	0.0	66,0,0
		784	0.84	0.0	0.0	66,0,0	785	0.83	0.0	0.0	66,0,0
728	ok	784	0.84	0.0	0.0	66,0,0	777	0.85	0.0	0.0	66,0,0
		775	0.85	0.0	0.0	61,0,0	787	0.84	0.0	0.0	66,0,0
729	ok	768	0.86	0.22	0.83	61,65,85	778	0.86	0.22	0.83	65,65,85
		743	0.87	0.22	0.84	89,65,85	744	0.86	0.22	0.84	66,65,85
730	ok	779	0.84	0.0	0.0	86,0,0	782	0.83	0.0	0.0	86,0,0
		761	0.83	0.0	0.0	86,0,0	758	0.84	0.0	0.0	86,0,0
731	ok	770	0.84	0.0	0.0	66,0,0	781	0.85	0.0	0.0	66,0,0
		777	0.84	0.0	0.0	66,0,0	784	0.84	0.0	0.0	66,0,0
732	ok	789	0.86	0.19	0.90	61,65,85	769	0.87	0.19	0.90	61,65,85
		778	0.86	0.19	0.90	61,65,85	768	0.86	0.19	0.90	61,65,85
733	ok	767	0.86	0.39	0.92	85,62,85	741	0.91	0.52	0.91	67,62,88
		742	0.83	0.55	0.88	85,62,85					
734	ok	785	0.84	0.0	0.0	66,0,0	784	0.85	0.0	0.0	66,0,0
		787	0.84	0.0	0.0	66,0,0					
735	ok	845	0.40	0.0	0.0	63,0,0	823	0.57	0.0	0.0	63,0,0
		805	0.53	0.0	0.0	63,0,0	804	0.41	0.0	0.0	63,0,0
736	ok	823	0.57	0.0	0.0	63,0,0	822	0.75	0.0	0.0	63,0,0
		806	0.67	0.0	0.0	63,0,0	805	0.52	0.0	0.0	63,0,0
737	ok	705	0.88	0.09	0.90	66,85,85	706	0.84	0.0	0.0	89,0,0
		838	0.85	0.0	0.0	66,0,0	837	0.85	0.0	0.0	66,0,0
738	ok	685	0.08	0.0	0.0	75,0,0	698	0.35	0.0	0.0	72,0,0
		842	0.28	0.0	0.0	72,0,0	791	0.12	0.0	0.0	87,0,0
739	ok	869	0.60	0.0	0.0	72,0,0	863	0.78	0.0	0.0	84,0,0
		885	0.76	0.0	0.0	72,0,0	860	0.65	0.0	0.0	72,0,0
740	ok	872	0.87	0.59	0.90	73,74,91	847	0.87	0.59	0.90	86,74,91
		893	0.83	0.59	0.90	86,74,91	871	0.88	0.59	0.90	86,74,91
741	ok	846	0.83	0.96	0.91	89,62,90	52	0.82	0.96	0.91	89,62,90
		53	0.84	0.96	0.91	66,65,90	847	0.87	0.96	0.91	73,65,90
742	ok	843	0.84	0.46	0.88	86,74,74	893	0.83	0.46	0.89	66,74,74
		51	0.82	0.46	0.89	66,74,74	814	0.85	0.46	0.89	66,74,74
743	ok	707	0.85	0.19	0.84	73,85,85	708	0.82	0.19	0.84	73,85,85
		840	0.84	0.19	0.84	89,85,85	839	0.87	0.19	0.84	89,85,85
744	ok	821	0.84	0.0	0.0	89,0,0	820	0.84	0.0	0.0	89,0,0
		808	0.85	0.0	0.0	89,0,0	807	0.83	0.0	0.0	87,0,0
745	ok	849	0.86	0.26	0.80	73,74,85	848	0.88	0.26	0.80	86,74,85
		816	0.85	0.26	0.80	86,74,85	817	0.87	0.26	0.80	73,74,85
746	ok	862	0.77	0.0	0.0	87,0,0	866	0.84	0.0	0.0	87,0,0
		821	0.85	0.0	0.0	89,0,0	822	0.76	0.0	0.0	87,0,0
747	ok	802	0.16	0.0	0.0	92,0,0	841	0.29	0.0	0.0	63,0,0
		803	0.35	0.0	0.0	63,0,0	790	0.09	0.0	0.0	76,0,0



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748	ok	801	0.29	0.0	0.0	76,0,0	845	0.41	0.0	0.0	63,0,0
		841	0.30	0.0	0.0	76,0,0	802	0.18	0.0	0.0	76,0,0
749	ok	824	0.48	0.0	0.0	63,0,0	868	0.60	0.0	0.0	63,0,0
		823	0.56	0.0	0.0	63,0,0	845	0.40	0.0	0.0	63,0,0
750	ok	799	0.54	0.0	0.0	76,0,0	825	0.55	0.0	0.0	76,0,0
		824	0.49	0.0	0.0	63,0,0	800	0.43	0.0	0.0	76,0,0
751	ok	826	0.62	0.0	0.0	63,0,0	856	0.70	0.0	0.0	76,0,0
		861	0.63	0.0	0.0	63,0,0	825	0.56	0.0	0.0	63,0,0
752	ok	887	0.83	0.10	0.80	63,74,65	881	0.85	0.10	0.80	89,74,65
		867	0.86	0.10	0.80	89,74,65	866	0.84	0.10	0.80	87,74,65
753	ok	796	0.66	0.0	0.0	75,0,0	828	0.65	0.0	0.0	72,0,0
		827	0.65	0.0	0.0	72,0,0	797	0.67	0.0	0.0	75,0,0
754	ok	797	0.66	0.0	0.0	76,0,0	827	0.65	0.0	0.0	76,0,0
		826	0.62	0.0	0.0	76,0,0	798	0.63	0.0	0.0	76,0,0
755	ok	700	0.51	0.0	0.0	72,0,0	701	0.67	0.0	0.0	72,0,0
		833	0.77	0.0	0.0	84,0,0	832	0.59	0.0	0.0	84,0,0
756	ok	703	0.85	0.0	0.0	78,0,0	704	0.85	0.0	0.0	66,0,0
		836	0.84	0.0	0.0	78,0,0	835	0.84	0.0	0.0	86,0,0
757	ok	829	0.63	0.0	0.0	72,0,0	857	0.72	0.0	0.0	72,0,0
		853	0.74	0.0	0.0	72,0,0	828	0.65	0.0	0.0	72,0,0
758	ok	698	0.31	0.0	0.0	72,0,0	699	0.44	0.0	0.0	72,0,0
		844	0.40	0.0	0.0	72,0,0	842	0.29	0.0	0.0	72,0,0
759	ok	791	0.14	0.0	0.0	67,0,0	842	0.30	0.0	0.0	75,0,0
		844	0.41	0.0	0.0	72,0,0	792	0.25	0.0	0.0	67,0,0
760	ok	794	0.52	0.0	0.0	67,0,0	830	0.56	0.0	0.0	72,0,0
		829	0.63	0.0	0.0	75,0,0	795	0.60	0.0	0.0	67,0,0
761	ok	701	0.65	0.0	0.0	72,0,0	702	0.85	0.0	0.0	84,0,0
		834	0.84	0.0	0.0	84,0,0	833	0.79	0.0	0.0	84,0,0
762	ok	858	0.85	0.16	0.80	73,74,74	850	0.85	0.16	0.80	73,74,74
		818	0.86	0.16	0.80	73,74,74	819	0.86	0.16	0.80	73,74,74
763	ok	706	0.86	0.12	0.87	73,85,85	707	0.83	0.12	0.87	89,85,85
		839	0.86	0.12	0.87	89,85,85	838	0.86	0.12	0.87	66,85,85
764	ok	708	0.83	0.34	0.81	73,85,85	709	0.81	0.34	0.81	73,85,85
		846	0.83	0.34	0.81	89,85,85	840	0.85	0.34	0.81	89,85,85
765	ok	837	0.86	0.19	0.80	66,65,74	838	0.86	0.19	0.80	66,65,74
		851	0.85	0.19	0.80	66,65,74	855	0.86	0.19	0.80	66,65,74
766	ok	792	0.26	0.0	0.0	67,0,0	844	0.43	0.0	0.0	72,0,0
		831	0.49	0.0	0.0	72,0,0	793	0.39	0.0	0.0	67,0,0
767	ok	831	0.49	0.0	0.0	72,0,0	869	0.61	0.0	0.0	72,0,0
		860	0.65	0.0	0.0	72,0,0	830	0.56	0.0	0.0	72,0,0
768	ok	863	0.78	0.0	0.0	84,0,0	859	0.85	0.0	0.0	92,0,0
		886	0.85	0.0	0.0	84,0,0	885	0.76	0.0	0.0	72,0,0
769	ok	871	0.87	0.47	0.82	86,74,91	893	0.85	0.47	0.82	86,74,91
		843	0.84	0.47	0.82	86,74,91	815	0.86	0.47	0.82	86,74,91
770	ok	834	0.85	0.0	0.0	86,0,0	835	0.85	0.0	0.0	86,0,0
		864	0.85	0.0	0.0	86,0,0	859	0.85	0.0	0.0	84,0,0



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771	ok	866	0.84	0.0	0.0	87,0,0	867	0.85	0.0	0.0	89,0,0
		820	0.85	0.0	0.0	89,0,0	821	0.86	0.0	0.0	89,0,0
772	ok	818	0.86	0.12	0.86	73,90,90	817	0.85	0.12	0.86	73,90,90
		811	0.85	0.12	0.86	86,90,90	810	0.88	0.12	0.86	74,90,90
773	ok	840	0.85	0.49	0.83	89,65,90	846	0.83	0.49	0.83	73,65,90
		872	0.87	0.49	0.83	86,65,90	870	0.88	0.49	0.84	89,65,90
774	ok	709	0.82	0.54	0.80	89,65,88	42	0.81	0.54	0.80	89,65,88
		52	0.84	0.54	0.80	89,65,88	846	0.86	0.54	0.80	89,65,88
775	ok	819	0.85	0.0	0.0	73,0,0	818	0.85	0.0	0.0	73,0,0
		810	0.85	0.0	0.0	86,0,0	809	0.87	0.0	0.0	73,0,0
776	ok	868	0.60	0.0	0.0	63,0,0	862	0.76	0.0	0.0	63,0,0
		822	0.76	0.0	0.0	87,0,0	823	0.56	0.0	0.0	79,0,0
777	ok	793	0.40	0.0	0.0	67,0,0	831	0.50	0.0	0.0	72,0,0
		830	0.56	0.0	0.0	72,0,0	794	0.51	0.0	0.0	67,0,0
778	ok	851	0.86	0.28	0.85	66,65,90	852	0.87	0.28	0.85	86,65,90
		883	0.86	0.28	0.85	86,65,90	874	0.86	0.28	0.86	66,65,90
779	ok	795	0.61	0.0	0.0	67,0,0	829	0.62	0.0	0.0	72,0,0
		828	0.65	0.0	0.0	72,0,0	796	0.66	0.0	0.0	67,0,0
780	ok	798	0.62	0.0	0.0	76,0,0	826	0.62	0.0	0.0	76,0,0
		825	0.56	0.0	0.0	76,0,0	799	0.55	0.0	0.0	76,0,0
781	ok	816	0.88	0.22	0.84	86,90,90	815	0.85	0.22	0.84	66,90,90
		813	0.83	0.22	0.84	66,90,90	812	0.85	0.22	0.84	86,90,90
782	ok	825	0.56	0.0	0.0	76,0,0	861	0.64	0.0	0.0	63,0,0
		868	0.60	0.0	0.0	63,0,0	824	0.48	0.0	0.0	63,0,0
783	ok	817	0.86	0.16	0.85	73,90,90	816	0.86	0.16	0.85	86,90,90
		812	0.84	0.16	0.85	86,90,90	811	0.86	0.16	0.85	66,90,90
784	ok	820	0.84	0.0	0.0	89,0,0	819	0.84	0.0	0.0	89,0,0
		809	0.85	0.0	0.0	73,0,0	808	0.85	0.0	0.0	73,0,0
785	ok	699	0.41	0.0	0.0	72,0,0	700	0.53	0.0	0.0	72,0,0
		832	0.58	0.0	0.0	72,0,0	844	0.41	0.0	0.0	72,0,0
786	ok	704	0.86	0.0	0.0	66,0,0	705	0.85	0.0	0.0	89,0,0
		837	0.84	0.0	0.0	66,0,0	836	0.84	0.0	0.0	66,0,0
787	ok	865	0.86	0.17	0.82	86,65,90	855	0.86	0.17	0.82	86,65,90
		878	0.86	0.17	0.82	86,65,90	880	0.86	0.17	0.82	86,65,90
788	ok	867	0.85	0.12	0.80	89,74,74	858	0.85	0.12	0.80	89,74,74
		819	0.85	0.12	0.80	89,74,74	820	0.86	0.12	0.80	89,74,74
789	ok	841	0.29	0.0	0.0	63,0,0	845	0.40	0.0	0.0	63,0,0
		804	0.44	0.0	0.0	63,0,0	803	0.31	0.0	0.0	63,0,0
790	ok	800	0.42	0.0	0.0	76,0,0	824	0.48	0.0	0.0	76,0,0
		845	0.42	0.0	0.0	63,0,0	801	0.30	0.0	0.0	76,0,0
791	ok	702	0.81	0.0	0.0	84,0,0	703	0.85	0.0	0.0	86,0,0
		835	0.84	0.0	0.0	86,0,0	834	0.84	0.0	0.0	86,0,0
792	ok	815	0.86	0.29	0.85	86,90,90	843	0.84	0.29	0.85	66,90,90
		814	0.82	0.29	0.85	66,90,90	813	0.84	0.29	0.85	66,90,90
793	ok	822	0.77	0.0	0.0	87,0,0	821	0.84	0.0	0.0	79,0,0
		807	0.84	0.0	0.0	79,0,0	806	0.66	0.0	0.0	63,0,0



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794	ok	879	0.86	0.17	0.82	89,74,85	877	0.85	0.17	0.82	89,74,85
		850	0.86	0.17	0.82	89,74,85	858	0.86	0.17	0.82	89,74,85
795	ok	827	0.65	0.0	0.0	76,0,0	854	0.73	0.0	0.0	76,0,0
		856	0.71	0.0	0.0	67,0,0	826	0.62	0.0	0.0	75,0,0
796	ok	850	0.86	0.20	0.80	73,74,74	849	0.85	0.20	0.80	73,74,74
		817	0.86	0.20	0.80	73,74,74	818	0.87	0.20	0.80	73,74,74
797	ok	847	0.84	0.68	0.86	73,74,75	53	0.85	0.68	0.86	66,74,75
		51	0.79	0.68	0.86	66,74,75	893	0.90	0.68	0.86	74,74,75
798	ok	832	0.57	0.0	0.0	84,0,0	833	0.78	0.0	0.0	84,0,0
		863	0.77	0.0	0.0	72,0,0	869	0.61	0.0	0.0	72,0,0
799	ok	844	0.41	0.0	0.0	72,0,0	832	0.58	0.0	0.0	72,0,0
		869	0.61	0.0	0.0	72,0,0	831	0.48	0.0	0.0	72,0,0
800	ok	836	0.86	0.15	0.80	86,65,74	837	0.85	0.15	0.80	86,65,74
		855	0.85	0.15	0.80	86,65,74	865	0.85	0.15	0.80	86,65,74
801	ok	835	0.86	0.12	0.80	86,65,74	836	0.85	0.12	0.80	86,65,74
		865	0.85	0.12	0.80	86,65,74	864	0.85	0.12	0.80	86,65,74
802	ok	881	0.85	0.13	0.81	89,74,85	879	0.85	0.13	0.81	89,74,85
		858	0.86	0.13	0.81	89,74,85	867	0.86	0.13	0.81	89,74,85
803	ok	838	0.87	0.25	0.81	66,65,90	839	0.85	0.25	0.81	89,65,90
		852	0.85	0.25	0.81	66,65,90	851	0.86	0.25	0.81	66,65,90
804	ok	839	0.87	0.34	0.82	89,65,90	840	0.84	0.34	0.82	89,65,90
		870	0.86	0.34	0.82	66,65,90	852	0.86	0.34	0.82	66,65,90
805	ok	855	0.86	0.21	0.83	86,65,90	851	0.86	0.21	0.83	86,65,90
		874	0.86	0.21	0.83	86,65,90	878	0.86	0.21	0.83	86,65,90
806	ok	860	0.64	0.0	0.0	72,0,0	885	0.75	0.0	0.0	72,0,0
		886	0.85	0.0	0.0	72,0,0	857	0.72	0.0	0.0	72,0,0
807	ok	856	0.70	0.0	0.0	67,0,0	887	0.83	0.0	0.0	63,0,0
		884	0.73	0.0	0.0	63,0,0	861	0.63	0.0	0.0	67,0,0
808	ok	859	0.85	0.0	0.0	84,0,0	864	0.86	0.0	0.0	86,0,0
		882	0.85	0.0	0.0	92,0,0	886	0.84	0.0	0.0	72,0,0
809	ok	828	0.65	0.0	0.0	72,0,0	853	0.74	0.0	0.0	72,0,0
		854	0.73	0.0	0.0	72,0,0	827	0.65	0.0	0.0	72,0,0
810	ok	830	0.56	0.0	0.0	72,0,0	860	0.64	0.0	0.0	72,0,0
		857	0.72	0.0	0.0	72,0,0	829	0.63	0.0	0.0	72,0,0
811	ok	877	0.86	0.22	0.83	73,74,85	873	0.86	0.22	0.83	73,74,85
		849	0.86	0.22	0.83	73,74,85	850	0.86	0.22	0.83	73,74,85
812	ok	878	0.87	0.21	0.94	86,65,90	874	0.86	0.21	0.93	86,65,90
		894	0.87	0.21	0.94	86,65,90	891	0.87	0.21	0.94	86,65,90
813	ok	861	0.63	0.0	0.0	63,0,0	884	0.74	0.0	0.0	63,0,0
		862	0.76	0.0	0.0	87,0,0	868	0.59	0.0	0.0	63,0,0
814	ok	870	0.87	0.46	0.88	89,62,90	872	0.87	0.46	0.88	86,62,90
		871	0.87	0.46	0.88	86,62,90	888	0.87	0.46	0.88	86,62,90
815	ok	883	0.89	0.37	0.93	86,62,91	888	0.87	0.37	0.93	86,70,91
		871	0.85	0.38	0.93	86,70,91	848	0.88	0.38	0.93	86,70,91
816	ok	853	0.74	0.0	0.0	72,0,0	875	0.84	0.0	0.0	72,0,0
		876	0.84	0.0	0.0	72,0,0	854	0.73	0.0	0.0	75,0,0



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817	ok	848	0.89	0.36	0.81	86,74,85	871	0.86	0.36	0.81	86,74,85
		815	0.84	0.36	0.81	86,74,85	816	0.87	0.36	0.81	86,74,85
818	ok	833	0.78	0.0	0.0	92,0,0	834	0.85	0.0	0.0	86,0,0
		859	0.85	0.0	0.0	84,0,0	863	0.78	0.0	0.0	84,0,0
819	ok	864	0.86	0.13	0.82	86,65,90	865	0.86	0.13	0.82	86,65,90
		880	0.86	0.13	0.82	86,65,90	882	0.85	0.13	0.82	86,65,90
820	ok	890	0.84	0.13	0.89	92,74,85	892	0.87	0.13	0.89	86,74,85
		879	0.86	0.13	0.89	89,74,85	881	0.86	0.13	0.89	89,74,85
821	ok	891	0.88	0.21	0.92	86,62,91	894	0.86	0.21	0.92	86,62,91
		873	0.86	0.21	0.92	89,70,91	877	0.87	0.21	0.92	73,70,91
822	ok	854	0.73	0.0	0.0	76,0,0	876	0.84	0.0	0.0	76,0,0
		887	0.84	0.0	0.0	67,0,0	856	0.70	0.0	0.0	67,0,0
823	ok	857	0.72	0.0	0.0	72,0,0	886	0.84	0.0	0.0	72,0,0
		875	0.84	0.0	0.0	72,0,0	853	0.73	0.0	0.0	72,0,0
824	ok	876	0.84	0.0	0.0	76,0,0	890	0.84	0.0	0.0	76,0,0
		881	0.85	0.0	0.0	87,0,0	887	0.84	0.0	0.0	67,0,0
825	ok	880	0.87	0.17	0.91	86,65,90	878	0.86	0.17	0.91	86,65,90
		891	0.86	0.17	0.91	86,65,90	892	0.87	0.17	0.91	66,65,90
826	ok	892	0.88	0.17	0.93	86,62,91	891	0.87	0.17	0.93	86,62,91
		877	0.86	0.17	0.93	89,70,91	879	0.87	0.17	0.93	73,70,91
827	ok	852	0.87	0.36	0.89	86,65,90	870	0.87	0.36	0.89	86,65,90
		888	0.86	0.36	0.89	86,65,90	883	0.86	0.36	0.90	86,65,90
828	ok	875	0.84	0.0	0.0	92,0,0	889	0.85	0.0	0.0	86,0,0
		890	0.83	0.0	0.0	72,0,0	876	0.84	0.0	0.0	75,0,0
829	ok	882	0.86	0.13	0.87	86,65,90	880	0.86	0.13	0.87	86,65,90
		892	0.86	0.13	0.87	86,65,90	889	0.85	0.13	0.87	92,65,90
830	ok	873	0.86	0.28	0.85	86,74,91	883	0.87	0.28	0.85	86,74,91
		848	0.86	0.28	0.85	86,74,91	849	0.87	0.28	0.85	73,74,91
831	ok	884	0.74	0.0	0.0	63,0,0	887	0.84	0.0	0.0	67,0,0
		866	0.85	0.0	0.0	87,0,0	862	0.76	0.0	0.0	87,0,0
832	ok	886	0.85	0.0	0.0	92,0,0	882	0.86	0.0	0.0	86,0,0
		889	0.85	0.0	0.0	92,0,0	875	0.84	0.0	0.0	72,0,0
833	ok	894	0.87	0.25	0.83	86,62,90	874	0.86	0.25	0.83	86,62,90
		883	0.86	0.25	0.83	86,62,90	873	0.87	0.25	0.83	86,62,90
834	ok	872	0.87	0.53	0.85	86,62,90	846	0.84	0.65	0.83	73,62,90
		847	0.86	0.74	0.91	62,62,91					
835	ok	890	0.83	0.12	0.82	87,62,91	889	0.85	0.12	0.81	86,62,90
		892	0.86	0.11	0.85	86,62,90					
836	ok	145	0.83	0.41	0.83	70,85,90	60	0.91	0.41	0.83	86,85,90
		184	0.90	0.41	0.83	70,85,90	95	0.85	0.41	0.83	70,85,90
837	ok	131	0.85	0.0	0.0	73,0,0	110	0.85	0.0	0.0	70,0,0
		119	0.85	0.0	0.0	73,0,0	133	0.85	0.0	0.0	73,0,0
838	ok	810	0.86	0.28	0.80	66,69,65	811	0.84	0.28	0.80	66,69,65
		90	0.86	0.28	0.80	86,69,65	89	0.86	0.28	0.80	73,69,65
839	ok	790	0.13	0.0	0.0	81,0,0	803	0.35	0.0	0.0	63,0,0
		93	0.45	0.0	0.0	63,0,0	895	0.48	0.0	0.0	81,0,0



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840	ok	803	0.33	0.0	0.0	63,0,0	804	0.43	0.0	0.0	63,0,0
		97	0.61	0.0	0.0	79,0,0	93	0.47	0.0	0.0	79,0,0
841	ok	75	0.68	0.0	0.0	83,0,0	175	0.21	0.0	0.0	89,0,0
		174	0.36	0.0	0.0	86,0,0	96	0.53	0.0	0.0	83,0,0
842	ok	124	0.85	0.46	0.87	74,74,88	99	0.83	0.46	0.87	74,74,88
		145	0.84	0.46	0.87	74,74,88	123	0.86	0.46	0.87	74,74,88
843	ok	98	0.84	0.69	0.79	74,74,68	61	0.80	0.68	0.79	74,74,68
		62	0.81	0.68	0.79	74,74,68	99	0.83	0.68	0.79	74,74,68
844	ok	812	0.85	0.39	0.80	86,69,65	813	0.84	0.39	0.80	86,69,65
		92	0.82	0.39	0.80	66,69,65	91	0.86	0.39	0.80	86,69,65
845	ok	913	0.83	0.10	0.81	73,85,69	177	0.42	0.10	0.81	73,85,69
		176	0.39	0.10	0.81	86,85,69	74	0.83	0.10	0.81	73,85,85
846	ok	101	0.86	0.11	0.85	70,90,85	909	0.87	0.11	0.85	70,90,85
		910	0.88	0.11	0.85	70,90,85	102	0.86	0.11	0.85	70,90,85
847	ok	86	0.85	0.09	0.80	89,74,74	87	0.84	0.09	0.80	81,74,74
		116	0.84	0.09	0.80	73,74,74	111	0.85	0.09	0.80	73,74,74
848	ok	94	0.39	0.10	0.80	91,73,73	173	0.21	0.10	0.80	65,73,73
		148	0.11	0.10	0.80	66,73,73	906	0.33	0.10	0.80	91,73,73
849	ok	905	0.33	0.0	0.0	91,0,0	96	0.53	0.0	0.0	91,0,0
		94	0.36	0.0	0.0	91,0,0	906	0.36	0.0	0.0	91,0,0
850	ok	96	0.58	0.0	0.0	91,0,0	174	0.22	0.0	0.0	66,0,0
		173	0.32	0.0	0.0	90,0,0	94	0.34	0.0	0.0	91,0,0
851	ok	74	0.79	0.0	0.0	73,0,0	176	0.29	0.0	0.0	73,0,0
		175	0.38	0.0	0.0	86,0,0	75	0.68	0.0	0.0	73,0,0
852	ok	82	0.77	0.0	0.0	79,0,0	81	0.80	0.0	0.0	79,0,0
		899	0.59	0.0	0.0	79,0,0	898	0.65	0.0	0.0	87,0,0
853	ok	106	0.84	0.0	0.0	81,0,0	108	0.83	0.0	0.0	89,0,0
		78	0.64	0.0	0.0	89,0,0	79	0.71	0.0	0.0	87,0,0
854	ok	97	0.60	0.0	0.0	79,0,0	84	0.75	0.0	0.0	79,0,0
		121	0.84	0.0	0.0	81,0,0	83	0.71	0.0	0.0	89,0,0
855	ok	808	0.85	0.19	0.80	73,69,69	809	0.85	0.19	0.80	73,69,69
		88	0.84	0.19	0.80	73,69,69	87	0.85	0.19	0.80	73,69,69
856	ok	113	0.84	0.0	0.0	81,0,0	109	0.84	0.0	0.0	81,0,0
		81	0.78	0.0	0.0	89,0,0	82	0.76	0.0	0.0	79,0,0
857	ok	805	0.56	0.10	0.80	63,69,69	806	0.68	0.10	0.80	63,69,69
		85	0.83	0.10	0.80	89,69,69	84	0.75	0.10	0.80	89,69,69
858	ok	97	0.59	0.0	0.0	79,0,0	83	0.71	0.0	0.0	79,0,0
		897	0.65	0.0	0.0	87,0,0	896	0.61	0.0	0.0	87,0,0
859	ok	806	0.70	0.13	0.80	79,69,69	807	0.84	0.13	0.80	79,69,69
		86	0.84	0.13	0.80	89,69,69	85	0.84	0.13	0.80	89,69,69
860	ok	79	0.73	0.0	0.0	79,0,0	78	0.68	0.0	0.0	79,0,0
		902	0.19	0.0	0.0	79,0,0	901	0.35	0.0	0.0	79,0,0
861	ok	102	0.85	0.0	0.0	70,0,0	910	0.87	0.0	0.0	70,0,0
		911	0.87	0.0	0.0	70,0,0	110	0.86	0.0	0.0	70,0,0
862	ok	811	0.86	0.33	0.80	86,69,65	812	0.84	0.33	0.80	86,69,65
		91	0.84	0.33	0.80	86,69,65	90	0.89	0.33	0.80	86,69,65



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863	ok	813	0.84	0.44	0.81	86,74,65	814	0.82	0.44	0.81	86,74,65
		98	0.81	0.44	0.81	66,74,65	92	0.84	0.44	0.81	74,74,65
864	ok	89	0.86	0.17	0.80	73,65,74	90	0.87	0.17	0.80	86,65,74
		103	0.89	0.17	0.80	86,65,74	107	0.87	0.17	0.80	73,65,74
865	ok	904	0.18	0.0	0.0	91,0,0	76	0.57	0.0	0.0	91,0,0
		96	0.57	0.0	0.0	91,0,0	905	0.32	0.0	0.0	91,0,0
866	ok	80	0.78	0.0	0.0	79,0,0	79	0.73	0.0	0.0	79,0,0
		901	0.35	0.0	0.0	79,0,0	900	0.49	0.0	0.0	79,0,0
867	ok	110	0.85	0.0	0.0	70,0,0	911	0.86	0.0	0.0	70,0,0
		912	0.87	0.0	0.0	70,0,0	119	0.85	0.0	0.0	70,0,0
868	ok	123	0.86	0.33	0.86	74,74,85	145	0.84	0.33	0.86	74,74,85
		95	0.89	0.33	0.86	76,74,85	907	0.88	0.33	0.86	70,74,85
869	ok	912	0.84	0.11	0.82	70,85,85	178	0.56	0.11	0.82	70,85,85
		177	0.40	0.11	0.82	86,85,85	913	0.84	0.11	0.82	70,85,85
870	ok	119	0.84	0.0	0.0	70,0,0	912	0.85	0.0	0.0	70,0,0
		913	0.85	0.0	0.0	73,0,0	118	0.84	0.0	0.0	73,0,0
871	ok	909	0.86	0.16	0.83	70,89,85	181	0.93	0.16	0.83	82,81,85
		180	0.64	0.16	0.83	70,89,85	910	0.86	0.16	0.83	70,89,85
872	ok	137	0.84	0.0	0.0	89,0,0	138	0.84	0.0	0.0	89,0,0
		109	0.84	0.0	0.0	89,0,0	113	0.84	0.0	0.0	81,0,0



7 Verifiche geotecniche fondazione diretta

La verifica agli S.L.U. delle platee di fondazione risulta particolarmente difficoltosa poiché tali fondazioni spesso hanno forme non rettangolari e pertanto non è possibile valutarne la capacità portante attraverso le classiche formule della geotecnica.

Per potere valutare la portanza delle platee si è quindi implementato un tipo di verifica in cui la fondazione viene modellata per intero (potendo essere costituita, nella forma più generale, da travi, plinti, pali e platee).

In particolare, gli elementi strutturali vengono modellati in campo elastico lineare, mentre il terreno viene modellato come un letto di molle:

a) lineari elastiche e non reagenti a trazione per le platee;

b) molle non lineari elasto-plastiche non reagenti a trazione per le travi Winkler ed i plinti diretti.

Per le molle elastiche delle platee viene calcolato anche il limite elastico, al fine di bloccare il calcolo del moltiplicatore dei carichi qualora venga raggiunto tale limite.

Il legame di tipo elastico reagente a sola compressione è ottenuto utilizzando come rigidità all'origine la costante di Winkler del terreno. Il modello così ottenuto è in grado di tenere in conto dell'eterogeneità del terreno in maniera puntuale. Su tale modello viene quindi condotta un'analisi non lineare a controllo di forza immettendo le forze agenti sulla fondazione.

Il calcolo viene interrotto quando le molle delle platee attingono al loro limite elastico o qualora venga raggiunto uno stato di incipiente formazione di cerniere plastiche nelle travi Winkler. In corrispondenza a tali eventi viene calcolato il moltiplicatore dei carichi.

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

7.1 Capacità portante di fondazioni superficiali

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

$$q_{lim} = q N_q Y_q i_q d_q b_q g_q s_q + c N_c Y_c i_c d_c b_c g_c s_c + \frac{1}{2} G B' N_g Y_g i_g b_g s_g$$

dove

Caratteristiche geometriche della fondazione:

q = carico sul piano di fondazione

B = lato minore della fondazione

L = lato maggiore della fondazione

D = profondità della fondazione



α = inclinazione base della fondazione

G = peso specifico del terreno

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

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

Caratteristiche di carico sulla fondazione:

H = risultante delle forze orizzontali

N = risultante delle forze verticali

eB = eccentricità del carico verticale lungo B

eL = eccentricità del carico verticale lungo L

FhB = forza orizzontale lungo B

FhL = forza orizzontale lungo L

Caratteristiche del terreno di fondazione:

β = inclinazione terreno a valle

c = cu = coesione non drenata (condizioni U)

c = c' = coesione drenata (condizioni D)

Γ = peso specifico apparente (condizioni U)

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

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

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

Fattori di capacità portante:

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

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

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

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



Indici di rigidezza (condizioni D):

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

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

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

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

$$\mu = \text{coefficiente di Poisson}$$

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

Coefficienti di punzonamento (Vesic):

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

$$Yc = Yq - \frac{1 - Yq}{Nq \times \tan \phi'}$$

Coefficienti di inclinazione del carico (Vesic):

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

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

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

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

essendo:

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



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

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

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

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

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

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

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

Coefficienti di inclinazione del piano di posa:

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

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

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

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

Coefficienti di inclinazione del terreno di fondazione:

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

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

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

Coefficienti di forma (De Beer):



$$sg = 1 - 0,4 \frac{B'}{L'}$$

$$sq = 1 + \frac{B'}{L'} \tan \phi$$

$$sc = 1 + \frac{B' Nq}{L' Nc}$$

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

Di seguito viene mostrato lo stato tensionale indotto al sulo allo S.L.U. calcolato applicando i carichi massimi trasferibili in fondazione dall'aerogeneratore corrispondente alla verticale più sollecitata in modo da comprendere come le tensioni si scaricano al suolo ed in che modo disturbano lo stato tensionale naturale del terreno.

Per le analisi geotecniche della fondazione diretta si è utilizzata la stratigrafia preliminare ipotizzate per gli aerogeneratori STT23 e STT25, poiché lungo la verticale si intercettano sabbie argillose con caratteristiche geotecniche certamente peggiori rispetto a quelle che caratterizzano i suoli ipotizzati per le altre stratigrafie.

Unità litologica	Formazione	ϕ (°)	C (kPa)	c_u (kPa)	γ t/m ³
STT23 e STT25	Sabbie gialle o grigie, e sabbie argillose con intercalazioni arenacee o calcaree	27	5	12	19

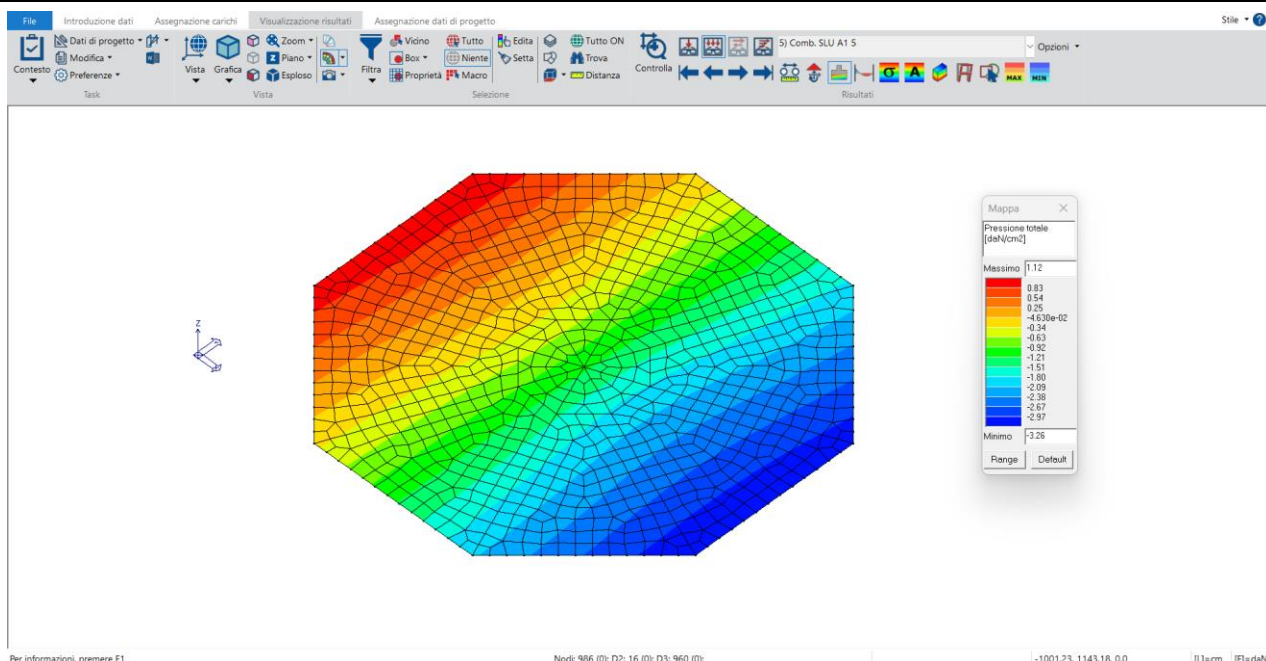


Figura 7: Tensioni indotte al suolo.

Ottenuto lo stato tensionale indotto al suolo si è verificata la portanza dell'insieme suolo-fondazione per le varie combinazioni di carico calcolandone il moltiplicatore ultimo di collasso. Di seguito vengono riportati, in forma tabellare, i dati di carico ed i risultati ottenuti.

Dati di carico degli elementi costituenti le fondazioni superficiali

Cmb n.	Tipo	Sism.	Ecc. B cm	Ecc. L cm	S. Taglio B daN	S. Taglio L daN	S. Normale daN	T.T. min daN/cm ²	T.T. max daN/cm ²
001	SLU STR	No	639.399	-26.853	246905.7	-3910.4	-5083421.0	1.1218	-3.2572
002	SLU STR	No	638.019	-26.795	189927.4	-3007.9	-3918782.0	0.8611	-2.5073
003	SLU STR	No	641.717	-26.951	246905.8	-3910.5	-5065074.0	1.1258	-3.2532
004	SLU STR	No	641.019	-26.922	189927.5	-3008.0	-3900448.0	0.8651	-2.5034
005	SLU STR	No	639.148	-26.842	246905.8	-3910.4	-5085403.0	1.1214	-3.2575
006	SLU STR	No	637.692	-26.779	189927.5	-3007.9	-3920770.0	0.8607	-2.5077
007	SLU STR	No	641.294	-26.932	246905.8	-3910.5	-5068388.0	1.1251	-3.2538
008	SLU STR	No	640.473	-26.897	189927.5	-3008.0	-3903757.0	0.8644	-2.5040
009	SLU STR	No	641.464	-26.940	246905.9	-3910.5	-5067060.0	1.1254	-3.2536
010	SLU STR	No	640.691	-26.907	189927.6	-3008.0	-3902433.0	0.8647	-2.5037
011	SLU STR	No	639.652	-26.865	246905.8	-3910.4	-5081427.0	1.1222	-3.2568
012	SLU STR	No	638.344	-26.809	189927.3	-3007.9	-3916795.0	0.8614	-2.5070
013	SLU STR	No	641.971	-26.963	246905.9	-3910.5	-5063086.0	1.1261	-3.2528
014	SLU STR	No	641.349	-26.937	189927.5	-3008.0	-3898459.0	0.8654	-2.5030
015	SLU STR	No	642.140	-26.971	246905.9	-3910.5	-5061763.0	1.1264	-3.2526
016	SLU STR	No	641.568	-26.947	189927.6	-3008.0	-3897130.0	0.8657	-2.5028
017	SLU STR	No	639.148	-26.842	246905.8	-3910.4	-5085403.0	1.1214	-3.2575
018	SLU STR	No	637.692	-26.779	189927.5	-3007.9	-3920770.0	0.8607	-2.5077
019	SLU STR	No	641.464	-26.940	246905.9	-3910.5	-5067060.0	1.1254	-3.2536
020	SLU STR	No	640.691	-26.907	189927.6	-3008.0	-3902433.0	0.8647	-2.5037
021	SLU STR	No	641.294	-26.932	246905.8	-3910.5	-5068388.0	1.1251	-3.2538
022	SLU STR	No	640.473	-26.897	189927.5	-3008.0	-3903757.0	0.8644	-2.5040
023	SLU STR	No	639.652	-26.865	246905.8	-3910.4	-5081427.0	1.1222	-3.2568
024	SLU STR	No	638.344	-26.809	189927.3	-3007.9	-3916795.0	0.8614	-2.5070
025	SLU STR	No	641.971	-26.963	246905.9	-3910.5	-5063086.0	1.1261	-3.2528
026	SLU STR	No	641.349	-26.937	189927.5	-3008.0	-3898459.0	0.8654	-2.5030
027	SLU STR	No	642.140	-26.971	246905.9	-3910.5	-5061763.0	1.1264	-3.2526
028	SLU STR	No	641.568	-26.947	189927.6	-3008.0	-3897130.0	0.8657	-2.5028
029	SLV A1	Si	666.769	-20.216	1153841.0	286444.1	-3882306.0	0.9202	-2.5548
030	SLV A1	Si	666.786	-33.879	1153878.0	-292326.5	-3882218.0	0.9348	-2.5632
031	SLV A1	Si	621.313	-20.222	-774022.3	286309.9	-3881996.0	0.8033	-2.4366



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032	SLV A1	Si	621.328	-33.885	-773985.7	-292460.3	-3881909.0	0.8178	-2.4454
033	SLV A1	Si	666.770	-20.221	1153852.0	286236.7	-3882305.0	0.9202	-2.5548
034	SLV A1	Si	666.785	-33.874	1153868.0	-292118.6	-3882221.0	0.9348	-2.5632
035	SLV A1	Si	621.313	-20.227	-774012.9	286102.3	-3881993.0	0.8033	-2.4366
036	SLV A1	Si	621.327	-33.880	-773995.7	-292252.9	-3881907.0	0.8179	-2.4454
037	SLV A1	Si	666.787	-20.217	1154533.0	286411.5	-3882301.0	0.9204	-2.5548
038	SLV A1	Si	666.803	-33.879	1154570.0	-292358.9	-3882210.0	0.9350	-2.5632
039	SLV A1	Si	621.296	-20.221	-774714.0	286342.7	-3882002.0	0.8031	-2.4366
040	SLV A1	Si	621.310	-33.885	-774677.3	-292427.9	-3881914.0	0.8176	-2.4455
041	SLV A1	Si	666.789	-20.222	1154542.0	286203.8	-3882298.0	0.9204	-2.5548
042	SLV A1	Si	666.802	-33.874	1154560.0	-292151.3	-3882215.0	0.9350	-2.5632
043	SLV A1	Si	621.296	-20.226	-774704.4	286134.9	-3882000.0	0.8031	-2.4366
044	SLV A1	Si	621.310	-33.880	-774686.0	-292220.2	-3881916.0	0.8177	-2.4455
045	SLV A1	Si	650.843	-4.279	479046.0	961629.0	-3882301.0	0.8702	-2.5093
046	SLV A1	Si	650.895	-49.822	479169.3	-967605.4	-3882002.0	0.9108	-2.5384
047	SLV A1	Si	637.205	-4.280	-99313.4	961589.0	-3882211.0	0.8348	-2.4738
048	SLV A1	Si	637.257	-49.824	-99190.3	-967645.5	-3881911.0	0.8757	-2.5032
049	SLV A1	Si	650.847	-4.279	479253.1	961620.0	-3882301.0	0.8702	-2.5093
050	SLV A1	Si	650.899	-49.822	479375.9	-967614.8	-3882002.0	0.9109	-2.5383
051	SLV A1	Si	637.201	-4.280	-99520.8	961598.6	-3882208.0	0.8348	-2.4738
052	SLV A1	Si	637.252	-49.824	-99397.7	-967635.8	-3881911.0	0.8757	-2.5032
053	SLV A1	Si	650.844	-4.295	479077.8	960938.1	-3882296.0	0.8703	-2.5093
054	SLV A1	Si	650.893	-49.805	479136.6	-966912.9	-3882007.0	0.9109	-2.5382
055	SLV A1	Si	637.208	-4.297	-99281.2	960897.3	-3882200.0	0.8348	-2.4738
056	SLV A1	Si	637.255	-49.808	-99222.7	-966953.4	-3881919.0	0.8758	-2.5030
057	SLV A1	Si	650.849	-4.296	479285.2	960928.0	-3882295.0	0.8703	-2.5093
058	SLV A1	Si	650.898	-49.806	479343.8	-966923.1	-3882009.0	0.9110	-2.5382
059	SLV A1	Si	637.203	-4.296	-99488.6	960907.3	-3882203.0	0.8348	-2.4738
060	SLV A1	Si	637.250	-49.807	-99430.0	-966943.4	-3881918.0	0.8758	-2.5030
061	SLD	Si	660.858	-21.996	902963.0	211064.7	-3882249.0	0.9069	-2.5401
062	SLD	Si	660.869	-32.101	902987.6	-216993.7	-3882183.0	0.9177	-2.5466
063	SLD	Si	627.231	-22.000	-523132.6	210977.5	-3882028.0	0.8204	-2.4528
064	SLD	Si	627.242	-32.105	-523108.0	-217081.0	-3881964.0	0.8312	-2.4594
065	SLD	Si	660.859	-21.999	902969.7	210948.9	-3882247.0	0.9069	-2.5401
066	SLD	Si	660.868	-32.098	902981.7	-216877.8	-3882186.0	0.9177	-2.5465
067	SLD	Si	627.231	-22.003	-523126.3	210861.4	-3882028.0	0.8204	-2.4528
068	SLD	Si	627.241	-32.103	-523114.3	-216965.1	-3881963.0	0.8312	-2.4594
069	SLD	Si	660.867	-21.996	903350.0	211044.2	-3882244.0	0.9070	-2.5401
070	SLD	Si	660.878	-32.101	903373.3	-217014.0	-3882182.0	0.9178	-2.5465
071	SLD	Si	627.221	-21.999	-523518.5	210998.0	-3882034.0	0.8203	-2.4528
072	SLD	Si	627.232	-32.105	-523494.3	-217060.4	-3881966.0	0.8310	-2.4594
073	SLD	Si	660.867	-21.999	903355.6	210928.2	-3882242.0	0.9070	-2.5401
074	SLD	Si	660.879	-32.098	903367.7	-216898.1	-3882182.0	0.9178	-2.5465
075	SLD	Si	627.221	-22.002	-523512.5	210881.8	-3882032.0	0.8202	-2.4528
076	SLD	Si	627.231	-32.102	-523500.4	-216944.5	-3881970.0	0.8310	-2.4594
077	SLD	Si	649.076	-10.208	403801.7	710435.3	-3882244.0	0.8674	-2.5055
078	SLD	Si	649.112	-43.892	403882.0	-716425.5	-3882035.0	0.8999	-2.5274
079	SLD	Si	638.987	-10.210	-24026.8	710409.6	-3882180.0	0.8412	-2.4793
080	SLD	Si	639.023	-43.893	-23946.6	-716451.8	-3881968.0	0.8740	-2.5014
081	SLD	Si	649.079	-10.209	403917.8	710428.6	-3882241.0	0.8674	-2.5055
082	SLD	Si	649.116	-43.892	403997.8	-716432.1	-3882031.0	0.9000	-2.5274
083	SLD	Si	638.985	-10.209	-24142.7	710415.9	-3882177.0	0.8412	-2.4793
084	SLD	Si	639.021	-43.893	-24062.4	-716444.9	-3881967.0	0.8739	-2.5014
085	SLD	Si	649.077	-10.218	403822.0	710048.8	-3882240.0	0.8674	-2.5055
086	SLD	Si	649.112	-43.883	403862.0	-716039.2	-3882037.0	0.9000	-2.5273
087	SLD	Si	638.989	-10.219	-24006.7	710022.8	-3882174.0	0.8412	-2.4793
088	SLD	Si	639.023	-43.884	-23966.7	-716065.7	-3881971.0	0.8741	-2.5013
089	SLD	Si	649.080	-10.218	403938.3	710042.6	-3882239.0	0.8674	-2.5055
090	SLD	Si	649.114	-43.883	403977.8	-716044.9	-3882038.0	0.9001	-2.5273
091	SLD	Si	638.985	-10.219	-24122.5	710028.8	-3882178.0	0.8412	-2.4793
092	SLD	Si	639.019	-43.884	-24082.6	-716059.1	-3881974.0	0.8740	-2.5013
093	SLE rare	No	640.017	-26.879	189927.5	-3008.0	-3906555.0	0.8637	-2.5047
094	SLE rare	No	642.027	-26.965	189927.6	-3008.1	-3894330.0	0.8664	-2.5020
095	SLE rare	No	639.798	-26.869	189927.5	-3008.0	-3907881.0	0.8635	-2.5049
096	SLE rare	No	641.661	-26.948	189927.7	-3008.1	-3896538.0	0.8660	-2.5025
097	SLE rare	No	641.807	-26.954	189927.6	-3008.1	-3895658.0	0.8661	-2.5023
098	SLE rare	No	640.235	-26.889	189927.5	-3008.0	-3905230.0	0.8640	-2.5044
099	SLE rare	No	642.247	-26.975	189927.6	-3008.1	-3893007.0	0.8666	-2.5018
100	SLE rare	No	642.394	-26.981	189927.5	-3008.1	-3892123.0	0.8668	-2.5016
101	SLE rare	No	639.798	-26.869	189927.5	-3008.0	-3907881.0	0.8635	-2.5049
102	SLE rare	No	641.807	-26.954	189927.6	-3008.1	-3895658.0	0.8661	-2.5023
103	SLE rare	No	641.661	-26.948	189927.7	-3008.1	-3896538.0	0.8660	-2.5025
104	SLE rare	No	640.235	-26.889	189927.5	-3008.0	-3905230.0	0.8640	-2.5044
105	SLE rare	No	642.247	-26.975	189927.6	-3008.1	-3893007.0	0.8666	-2.5018
106	SLE rare	No	642.394	-26.981	189927.5	-3008.1	-3892123.0	0.8668	-2.5016
107	SLE freq	No	643.239	-27.016	189927.6	-3008.1	-3886996.0	0.8680	-2.5005



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108	SLE freq	No	644.049	-27.050	189927.7	-3008.2	-3882107.0	0.8690	-2.4994
109	SLE freq	No	643.977	-27.047	189927.6	-3008.2	-3882545.0	0.8689	-2.4995
110	SLE freq	No	644.123	-27.054	189927.7	-3008.2	-3881667.0	0.8691	-2.4993
111	SLE freq	No	643.977	-27.047	189927.6	-3008.2	-3882545.0	0.8689	-2.4995
112	SLE freq	No	644.123	-27.054	189927.7	-3008.2	-3881667.0	0.8691	-2.4993
113	SLE q.p.	No	644.049	-27.050	189927.7	-3008.2	-3882107.0	0.8690	-2.4994

Valori di calcolo della portanza per fondazioni superficiali

Cmb. n.	Qmax daN/cm ²	Qlim daN/cm ²	Qmax/Qlim	TL daN	TLim daN	TL/TLim	TB daN	TBlim daN	TB/TBlim	Stato
1	3.2572	4.7637	0.684	3910.4	1704918.0	0.002	246905.7	1704918.0	0.145	Ok
2	2.5073	4.7803	0.525	3007.9	1342591.0	0.002	189927.4	1342591.0	0.141	Ok
3	3.2532	4.7384	0.687	3910.5	1698924.0	0.002	246905.8	1698924.0	0.145	Ok
4	2.5034	4.7475	0.527	3008.0	1336518.0	0.002	189927.5	1336518.0	0.142	Ok
5	3.2575	4.7664	0.683	3910.4	1705565.0	0.002	246905.8	1705565.0	0.145	Ok
6	2.5077	4.7839	0.524	3007.9	1343250.0	0.002	189927.5	1343250.0	0.141	Ok
7	3.2538	4.7430	0.686	3910.5	1700007.0	0.002	246905.8	1700007.0	0.145	Ok
8	2.5040	4.7535	0.527	3008.0	1337615.0	0.002	189927.5	1337615.0	0.142	Ok
9	3.2536	4.7412	0.686	3910.5	1699573.0	0.002	246905.9	1699573.0	0.145	Ok
10	2.5037	4.7511	0.527	3008.0	1337176.0	0.002	189927.6	1337176.0	0.142	Ok
11	3.2568	4.7609	0.684	3910.4	1704266.0	0.002	246905.8	1704266.0	0.145	Ok
12	2.5070	4.7767	0.525	3007.9	1341933.0	0.002	189927.3	1341933.0	0.142	Ok
13	3.2528	4.7356	0.687	3910.5	1698274.0	0.002	246905.9	1698274.0	0.145	Ok
14	2.5030	4.7439	0.528	3008.0	1335858.0	0.002	189927.5	1335858.0	0.142	Ok
15	3.2526	4.7338	0.687	3910.5	1697841.0	0.002	246905.9	1697841.0	0.145	Ok
16	2.5028	4.7415	0.528	3008.0	1335418.0	0.002	189927.6	1335418.0	0.142	Ok
17	3.2575	4.7664	0.683	3910.4	1705565.0	0.002	246905.8	1705565.0	0.145	Ok
18	2.5077	4.7839	0.524	3007.9	1343250.0	0.002	189927.5	1343250.0	0.141	Ok
19	3.2536	4.7412	0.686	3910.5	1699573.0	0.002	246905.9	1699573.0	0.145	Ok
20	2.5037	4.7511	0.527	3008.0	1337176.0	0.002	189927.6	1337176.0	0.142	Ok
21	3.2538	4.7430	0.686	3910.5	1700007.0	0.002	246905.8	1700007.0	0.145	Ok
22	2.5040	4.7535	0.527	3008.0	1337615.0	0.002	189927.5	1337615.0	0.142	Ok
23	3.2568	4.7609	0.684	3910.4	1704266.0	0.002	246905.8	1704266.0	0.145	Ok
24	2.5070	4.7767	0.525	3007.9	1341933.0	0.002	189927.3	1341933.0	0.142	Ok
25	3.2528	4.7356	0.687	3910.5	1698274.0	0.002	246905.9	1698274.0	0.145	Ok
26	2.5030	4.7439	0.528	3008.0	1335858.0	0.002	189927.5	1335858.0	0.142	Ok
27	3.2526	4.7338	0.687	3910.5	1697841.0	0.002	246905.9	1697841.0	0.145	Ok
28	2.5028	4.7415	0.528	3008.0	1335418.0	0.002	189927.6	1335418.0	0.142	Ok
29	2.5548	2.5798	0.990	286444.1	1305756.0	0.219	1153841.0	1305756.0	0.884	Ok
30	2.5632	2.5792	0.994	292326.5	1305345.0	0.224	1153878.0	1305345.0	0.884	Ok
31	2.4366	3.5784	0.681	286309.9	1311204.0	0.218	774022.3	1311204.0	0.590	Ok
32	2.4454	3.5779	0.683	292460.3	1310703.0	0.223	773985.7	1310703.0	0.591	Ok
33	2.5548	2.5797	0.990	286236.7	1305755.0	0.219	1153852.0	1305755.0	0.884	Ok
34	2.5632	2.5792	0.994	292118.6	1305346.0	0.224	1153868.0	1305346.0	0.884	Ok
35	2.4366	3.5784	0.681	286102.3	1311203.0	0.218	774012.9	1311203.0	0.590	Ok
36	2.4454	3.5779	0.683	292252.9	1310703.0	0.223	773995.7	1310703.0	0.591	Ok
37	2.5548	2.5785	0.991	286411.5	1305752.0	0.219	1154533.0	1305752.0	0.884	Ok
38	2.5632	2.5779	0.994	292358.9	1305340.0	0.224	1154570.0	1305340.0	0.884	Ok
39	2.4366	3.5770	0.681	286342.7	1311208.0	0.218	774714.0	1311208.0	0.591	Ok
40	2.4455	3.5765	0.684	292427.9	1310707.0	0.223	774677.3	1310707.0	0.591	Ok
41	2.5548	2.5785	0.991	286203.8	1305751.0	0.219	1154542.0	1305751.0	0.884	Ok
42	2.5632	2.5779	0.994	292151.3	1305342.0	0.224	1154560.0	1305342.0	0.884	Ok
43	2.4366	3.5770	0.681	286134.9	1311207.0	0.218	774704.4	1311207.0	0.591	Ok
44	2.4455	3.5765	0.684	292220.2	1310708.0	0.223	774686.0	1310708.0	0.591	Ok
45	2.5093	3.0117	0.833	961629.0	1308179.0	0.735	479046.0	1308179.0	0.366	Ok
46	2.5384	2.9987	0.846	967605.4	1306702.0	0.740	479169.3	1306702.0	0.367	Ok
47	2.4738	3.0931	0.800	961589.0	1309846.0	0.734	99313.4	1309846.0	0.076	Ok
48	2.5032	3.0794	0.813	967645.5	1308279.0	0.740	99190.3	1308279.0	0.076	Ok
49	2.5093	3.0117	0.833	961620.0	1308179.0	0.735	479253.1	1308179.0	0.366	Ok
50	2.5383	2.9986	0.847	967614.8	1306702.0	0.741	479375.9	1306702.0	0.367	Ok
51	2.4738	3.0931	0.800	961598.6	1309846.0	0.734	99520.8	1309846.0	0.076	Ok
52	2.5032	3.0794	0.813	967635.8	1308279.0	0.740	99397.7	1308279.0	0.076	Ok
53	2.5093	3.0130	0.833	960938.1	1308177.0	0.735	479077.8	1308177.0	0.366	Ok
54	2.5382	3.0000	0.846	966912.9	1306705.0	0.740	479136.6	1306705.0	0.367	Ok
55	2.4738	3.0944	0.799	960897.3	1309842.0	0.734	99281.2	1309842.0	0.076	Ok
56	2.5030	3.0808	0.812	966953.4	1308282.0	0.739	99222.7	1308282.0	0.076	Ok
57	2.5093	3.0130	0.833	960928.0	1308176.0	0.735	479285.2	1308176.0	0.366	Ok
58	2.5382	2.9999	0.846	966923.1	1306704.0	0.740	479343.8	1306704.0	0.367	Ok
59	2.4738	3.0945	0.799	960907.3	1309844.0	0.734	99488.6	1309844.0	0.076	Ok
60	2.5030	3.0808	0.812	966943.4	1308282.0	0.739	99430.0	1308282.0	0.076	Ok
61	2.5401	3.0605	0.830	211064.7	1306408.0	0.162	902963.0	1306408.0	0.691	Ok
62	2.5466	3.0601	0.832	216993.7	1306095.0	0.166	902987.6	1306095.0	0.691	Ok



63	2.4528	4.0886	0.600	210977.5	1310432.0	0.161	523132.6	1310432.0	0.399	Ok
64	2.4594	4.0883	0.602	217081.0	1310071.0	0.166	523108.0	1310071.0	0.399	Ok
65	2.5401	3.0605	0.830	210948.9	1306407.0	0.161	902969.7	1306407.0	0.691	Ok
66	2.5465	3.0601	0.832	216877.8	1306096.0	0.166	902981.7	1306096.0	0.691	Ok
67	2.4528	4.0886	0.600	210861.4	1310432.0	0.161	523126.3	1310432.0	0.399	Ok
68	2.4594	4.0883	0.602	216965.1	1310070.0	0.166	523114.3	1310070.0	0.399	Ok
69	2.5401	3.0598	0.830	211044.2	1306405.0	0.162	903350.0	1306405.0	0.691	Ok
70	2.5465	3.0594	0.832	217014.0	1306094.0	0.166	903373.3	1306094.0	0.692	Ok
71	2.4528	4.0878	0.600	210998.0	1310435.0	0.161	523518.5	1310435.0	0.399	Ok
72	2.4594	4.0875	0.602	217060.4	1310072.0	0.166	523494.3	1310072.0	0.400	Ok
73	2.5401	3.0598	0.830	210928.2	1306404.0	0.161	903355.6	1306404.0	0.691	Ok
74	2.5465	3.0594	0.832	216898.1	1306094.0	0.166	903367.7	1306094.0	0.692	Ok
75	2.4528	4.0878	0.600	210881.8	1310434.0	0.161	523512.5	1310434.0	0.399	Ok
76	2.4594	4.0875	0.602	216944.5	1310074.0	0.166	523500.4	1310074.0	0.400	Ok
77	2.5055	3.5159	0.713	710435.3	1308200.0	0.543	403801.7	1308200.0	0.309	Ok
78	2.5274	3.5025	0.722	716425.5	1307103.0	0.548	403882.0	1307103.0	0.309	Ok
79	2.4793	3.5884	0.691	710409.6	1309426.0	0.543	24026.8	1309426.0	0.018	Ok
80	2.5014	3.5746	0.700	716451.8	1308278.0	0.548	23946.6	1308278.0	0.018	Ok
81	2.5055	3.5159	0.713	710428.6	1308199.0	0.543	403917.8	1308199.0	0.309	Ok
82	2.5274	3.5024	0.722	716432.1	1307102.0	0.548	403997.8	1307102.0	0.309	Ok
83	2.4793	3.5884	0.691	710415.9	1309425.0	0.543	24142.7	1309425.0	0.018	Ok
84	2.5014	3.5746	0.700	716444.9	1308278.0	0.548	24062.4	1308278.0	0.018	Ok
85	2.5055	3.5166	0.712	710048.8	1308199.0	0.543	403822.0	1308199.0	0.309	Ok
86	2.5273	3.5033	0.721	716039.2	1307104.0	0.548	403862.0	1307104.0	0.309	Ok
87	2.4793	3.5892	0.691	710022.8	1309423.0	0.542	24006.7	1309423.0	0.018	Ok
88	2.5013	3.5754	0.700	716065.7	1308279.0	0.547	23966.7	1308279.0	0.018	Ok
89	2.5055	3.5166	0.712	710042.6	1308198.0	0.543	403938.3	1308198.0	0.309	Ok
90	2.5273	3.5032	0.721	716044.9	1307104.0	0.548	403977.8	1307104.0	0.309	Ok
91	2.4793	3.5892	0.691	710028.8	1309425.0	0.542	24122.5	1309425.0	0.018	Ok
92	2.5013	3.5754	0.700	716059.1	1308281.0	0.547	24082.6	1308281.0	0.018	Ok

Risultati più gravosi per cmb. di tipo **SLU STR**:

Sgm. Lt (tens. litostatica) = -0.3895 daN/cm²

Qlim = Qlim c + Qlim q + Qlim g + Qres P = 0.5661 + 2.2952 + 1.8724 + 0.0000

Qmax / Qlim = 3.2526 / 4.7338 = 0,687 **Ok** (Cmb. n. 015)

TB / TBlim = 246905.9 / 1697841.0 = 0,145 **Ok** (Cmb. n. 015)

TL / TLLim = 3910.5 / 1697841.0 = 0,002 **Ok** (Cmb. n. 015)

Risultati più gravosi per cmb. di tipo **SLV A1 sism.**:

Sgm. Lt (tens. litostatica) = -0.3895 daN/cm²

Qlim = Qlim c + Qlim q + Qlim g + Qres P = 0.3392 + 1.4570 + 0.7817 + 0.0000

Qmax / Qlim = 2.5632 / 2.5779 = 0,994 **Ok** (Cmb. n. 038)

TB / TBlim = 1154570.0 / 1305340.0 = 0,884 **Ok** (Cmb. n. 038)

TL / TLLim = 967614.8 / 1306702.0 = 0,741 **Ok** (Cmb. n. 050)

Risultati più gravosi per cmb. di tipo **SLD sism.**:

Sgm. Lt (tens. litostatica) = -0.3895 daN/cm²

Qlim = Qlim c + Qlim q + Qlim g + Qres P = 0.3945 + 1.6622 + 1.0026 + 0.0000

Qmax / Qlim = 2.5465 / 3.0594 = 0,832 **Ok** (Cmb. n. 070)

TB / TBlim = 903373.3 / 1306094.0 = 0,692 **Ok** (Cmb. n. 070)

TL / TLLim = 716432.1 / 1307102.0 = 0,548 **Ok** (Cmb. n. 082)



7.2 Verifica a scorrimento

La verifica allo scorrimento sul piano di posa della fondazione consiste nell'imporre l'equilibrio alla traslazione orizzontale tra tutte le forze instabilizzanti e resistenti che intervengono nel problema, richiedendo che l'equilibrio sia soddisfatto con un opportuno fattore di sicurezza alla traslazione, imposto dalle norme.

Il piano su cui scorre l'opera di sostegno è rappresentato dalla base della fondazione.

Si riporta a seguire la verifica a scorrimento per le varie combinazioni di carico.

Verifica allo scorrimento longitudinale

Cmb. Tipo	TL (daN)	TLlim (daN)	TL/TLlim (ok<1)	Stato
001 SLU STR	3910.4	1704918.0	0.002	Ok
002 SLU STR	3007.9	1342591.0	0.002	Ok
003 SLU STR	3910.5	1698924.0	0.002	Ok
004 SLU STR	3008.0	1336518.0	0.002	Ok
005 SLU STR	3910.4	1705565.0	0.002	Ok
006 SLU STR	3007.9	1343250.0	0.002	Ok
007 SLU STR	3910.5	1700007.0	0.002	Ok
008 SLU STR	3008.0	1337615.0	0.002	Ok
009 SLU STR	3910.5	1699573.0	0.002	Ok
010 SLU STR	3008.0	1337176.0	0.002	Ok
011 SLU STR	3910.4	1704266.0	0.002	Ok
012 SLU STR	3007.9	1341933.0	0.002	Ok
013 SLU STR	3910.5	1698274.0	0.002	Ok
014 SLU STR	3008.0	1335858.0	0.002	Ok
015 SLU STR	3910.5	1697841.0	0.002	Ok
016 SLU STR	3008.0	1335418.0	0.002	Ok
017 SLU STR	3910.4	1705565.0	0.002	Ok
018 SLU STR	3007.9	1343250.0	0.002	Ok
019 SLU STR	3910.5	1699573.0	0.002	Ok
020 SLU STR	3008.0	1337176.0	0.002	Ok
021 SLU STR	3910.5	1700007.0	0.002	Ok
022 SLU STR	3008.0	1337615.0	0.002	Ok
023 SLU STR	3910.4	1704266.0	0.002	Ok
024 SLU STR	3007.9	1341933.0	0.002	Ok
025 SLU STR	3910.5	1698274.0	0.002	Ok
026 SLU STR	3008.0	1335858.0	0.002	Ok
027 SLU STR	3910.5	1697841.0	0.002	Ok
028 SLU STR	3008.0	1335418.0	0.002	Ok
029 SLV A1 sism.	286444.1	1305756.0	0.219	Ok
030 SLV A1 sism.	292326.5	1305345.0	0.224	Ok
031 SLV A1 sism.	286309.9	1311204.0	0.218	Ok
032 SLV A1 sism.	292460.3	1310703.0	0.223	Ok
033 SLV A1 sism.	286236.7	1305755.0	0.219	Ok
034 SLV A1 sism.	292118.6	1305346.0	0.224	Ok
035 SLV A1 sism.	286102.3	1311203.0	0.218	Ok
036 SLV A1 sism.	292252.9	1310703.0	0.223	Ok
037 SLV A1 sism.	286411.5	1305752.0	0.219	Ok
038 SLV A1 sism.	292358.9	1305340.0	0.224	Ok
039 SLV A1 sism.	286342.7	1311208.0	0.218	Ok
040 SLV A1 sism.	292427.9	1310707.0	0.223	Ok
041 SLV A1 sism.	286203.8	1305751.0	0.219	Ok
042 SLV A1 sism.	292151.3	1305342.0	0.224	Ok
043 SLV A1 sism.	286134.9	1311207.0	0.218	Ok
044 SLV A1 sism.	292220.2	1310708.0	0.223	Ok
045 SLV A1 sism.	961629.0	1308179.0	0.735	Ok
046 SLV A1 sism.	967605.4	1306702.0	0.740	Ok
047 SLV A1 sism.	961589.0	1309846.0	0.734	Ok



048 SLV A1 sism.	967645.5	1308279.0	0.740	Ok
049 SLV A1 sism.	961620.0	1308179.0	0.735	Ok
050 SLV A1 sism.	967614.8	1306702.0	0.741	Ok
051 SLV A1 sism.	961598.6	1309846.0	0.734	Ok
052 SLV A1 sism.	967635.8	1308279.0	0.740	Ok
053 SLV A1 sism.	960938.1	1308177.0	0.735	Ok
054 SLV A1 sism.	966912.9	1306705.0	0.740	Ok
055 SLV A1 sism.	960897.3	1309842.0	0.734	Ok
056 SLV A1 sism.	966953.4	1308282.0	0.739	Ok
057 SLV A1 sism.	960928.0	1308176.0	0.735	Ok
058 SLV A1 sism.	966923.1	1306704.0	0.740	Ok
059 SLV A1 sism.	960907.3	1309844.0	0.734	Ok
060 SLV A1 sism.	966943.4	1308282.0	0.739	Ok
061 SLD sism.	211064.7	1306408.0	0.162	Ok
062 SLD sism.	216993.7	1306095.0	0.166	Ok
063 SLD sism.	210977.5	1310432.0	0.161	Ok
064 SLD sism.	217081.0	1310071.0	0.166	Ok
065 SLD sism.	210948.9	1306407.0	0.161	Ok
066 SLD sism.	216877.8	1306096.0	0.166	Ok
067 SLD sism.	210861.4	1310432.0	0.161	Ok
068 SLD sism.	216965.1	1310070.0	0.166	Ok
069 SLD sism.	211044.2	1306405.0	0.162	Ok
070 SLD sism.	217014.0	1306094.0	0.166	Ok
071 SLD sism.	210998.0	1310435.0	0.161	Ok
072 SLD sism.	217060.4	1310072.0	0.166	Ok
073 SLD sism.	210928.2	1306404.0	0.161	Ok
074 SLD sism.	216898.1	1306094.0	0.166	Ok
075 SLD sism.	210881.8	1310434.0	0.161	Ok
076 SLD sism.	216944.5	1310074.0	0.166	Ok
077 SLD sism.	710435.3	1308200.0	0.543	Ok
078 SLD sism.	716425.5	1307103.0	0.548	Ok
079 SLD sism.	710409.6	1309426.0	0.543	Ok
080 SLD sism.	716451.8	1308278.0	0.548	Ok
081 SLD sism.	710428.6	1308199.0	0.543	Ok
082 SLD sism.	716432.1	1307102.0	0.548	Ok
083 SLD sism.	710415.9	1309425.0	0.543	Ok
084 SLD sism.	716444.9	1308278.0	0.548	Ok
085 SLD sism.	710048.8	1308199.0	0.543	Ok
086 SLD sism.	716039.2	1307104.0	0.548	Ok
087 SLD sism.	710022.8	1309423.0	0.542	Ok
088 SLD sism.	716065.7	1308279.0	0.547	Ok
089 SLD sism.	710042.6	1308198.0	0.543	Ok
090 SLD sism.	716044.9	1307104.0	0.548	Ok
091 SLD sism.	710028.8	1309425.0	0.542	Ok
092 SLD sism.	716059.1	1308281.0	0.547	Ok

Verifica allo scorrimento trasversale

Cmb. Tipo	TB (daN)	TBlim (daN)	TB/TBlim (ok<1)	Stato
001 SLU STR	246905.7	1704918.0	0.145	Ok
002 SLU STR	189927.4	1342591.0	0.141	Ok
003 SLU STR	246905.8	1698924.0	0.145	Ok
004 SLU STR	189927.5	1336518.0	0.142	Ok
005 SLU STR	246905.8	1705565.0	0.145	Ok
006 SLU STR	189927.5	1343250.0	0.141	Ok
007 SLU STR	246905.8	1700007.0	0.145	Ok
008 SLU STR	189927.5	1337615.0	0.142	Ok
009 SLU STR	246905.9	1699573.0	0.145	Ok
010 SLU STR	189927.6	1337176.0	0.142	Ok
011 SLU STR	246905.8	1704266.0	0.145	Ok
012 SLU STR	189927.3	1341933.0	0.142	Ok
013 SLU STR	246905.9	1698274.0	0.145	Ok



INTERNAL CODE

C23FSTR002WR02300

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014 SLU STR	189927.5	1335858.0	0.142	Ok
015 SLU STR	246905.9	1697841.0	0.145	Ok
016 SLU STR	189927.6	1335418.0	0.142	Ok
017 SLU STR	246905.8	1705565.0	0.145	Ok
018 SLU STR	189927.5	1343250.0	0.141	Ok
019 SLU STR	246905.9	1699573.0	0.145	Ok
020 SLU STR	189927.6	1337176.0	0.142	Ok
021 SLU STR	246905.8	1700007.0	0.145	Ok
022 SLU STR	189927.5	1337615.0	0.142	Ok
023 SLU STR	246905.8	1704266.0	0.145	Ok
024 SLU STR	189927.3	1341933.0	0.142	Ok
025 SLU STR	246905.9	1698274.0	0.145	Ok
026 SLU STR	189927.5	1335858.0	0.142	Ok
027 SLU STR	246905.9	1697841.0	0.145	Ok
028 SLU STR	189927.6	1335418.0	0.142	Ok
029 SLV A1 sism.	1153841.0	1305756.0	0.884	Ok
030 SLV A1 sism.	1153878.0	1305345.0	0.884	Ok
031 SLV A1 sism.	774022.3	1311204.0	0.590	Ok
032 SLV A1 sism.	773985.7	1310703.0	0.591	Ok
033 SLV A1 sism.	1153852.0	1305755.0	0.884	Ok
034 SLV A1 sism.	1153868.0	1305346.0	0.884	Ok
035 SLV A1 sism.	774012.9	1311203.0	0.590	Ok
036 SLV A1 sism.	773995.7	1310703.0	0.591	Ok
037 SLV A1 sism.	1154533.0	1305752.0	0.884	Ok
038 SLV A1 sism.	1154570.0	1305340.0	0.884	Ok
039 SLV A1 sism.	774714.0	1311208.0	0.591	Ok
040 SLV A1 sism.	774677.3	1310707.0	0.591	Ok
041 SLV A1 sism.	1154542.0	1305751.0	0.884	Ok
042 SLV A1 sism.	1154560.0	1305342.0	0.884	Ok
043 SLV A1 sism.	774704.4	1311207.0	0.591	Ok
044 SLV A1 sism.	774686.0	1310708.0	0.591	Ok
045 SLV A1 sism.	479046.0	1308179.0	0.366	Ok
046 SLV A1 sism.	479169.3	1306702.0	0.367	Ok
047 SLV A1 sism.	99313.4	1309846.0	0.076	Ok
048 SLV A1 sism.	99190.3	1308279.0	0.076	Ok
049 SLV A1 sism.	479253.1	1308179.0	0.366	Ok
050 SLV A1 sism.	479375.9	1306702.0	0.367	Ok
051 SLV A1 sism.	99520.8	1309846.0	0.076	Ok
052 SLV A1 sism.	99397.7	1308279.0	0.076	Ok
053 SLV A1 sism.	479077.8	1308177.0	0.366	Ok
054 SLV A1 sism.	479136.6	1306705.0	0.367	Ok
055 SLV A1 sism.	99281.2	1309842.0	0.076	Ok
056 SLV A1 sism.	99222.7	1308282.0	0.076	Ok
057 SLV A1 sism.	479285.2	1308176.0	0.366	Ok
058 SLV A1 sism.	479343.8	1306704.0	0.367	Ok
059 SLV A1 sism.	99488.6	1309844.0	0.076	Ok
060 SLV A1 sism.	99430.0	1308282.0	0.076	Ok
061 SLD sism.	902963.0	1306408.0	0.691	Ok
062 SLD sism.	902987.6	1306095.0	0.691	Ok
063 SLD sism.	523132.6	1310432.0	0.399	Ok
064 SLD sism.	523108.0	1310071.0	0.399	Ok
065 SLD sism.	902969.7	1306407.0	0.691	Ok
066 SLD sism.	902981.7	1306096.0	0.691	Ok
067 SLD sism.	523126.3	1310432.0	0.399	Ok
068 SLD sism.	523114.3	1310070.0	0.399	Ok
069 SLD sism.	903350.0	1306405.0	0.691	Ok
070 SLD sism.	903373.3	1306094.0	0.692	Ok
071 SLD sism.	523518.5	1310435.0	0.399	Ok
072 SLD sism.	523494.3	1310072.0	0.400	Ok
073 SLD sism.	903355.6	1306404.0	0.691	Ok
074 SLD sism.	903367.7	1306094.0	0.692	Ok
075 SLD sism.	523512.5	1310434.0	0.399	Ok
076 SLD sism.	523500.4	1310074.0	0.400	Ok
077 SLD sism.	403801.7	1308200.0	0.309	Ok
078 SLD sism.	403882.0	1307103.0	0.309	Ok
079 SLD sism.	24026.8	1309426.0	0.018	Ok
080 SLD sism.	23946.6	1308278.0	0.018	Ok
081 SLD sism.	403917.8	1308199.0	0.309	Ok



082 SLD sism.	403997.8	1307102.0	0.309	Ok
083 SLD sism.	24142.7	1309425.0	0.018	Ok
084 SLD sism.	24062.4	1308278.0	0.018	Ok
085 SLD sism.	403822.0	1308199.0	0.309	Ok
086 SLD sism.	403862.0	1307104.0	0.309	Ok
087 SLD sism.	24006.7	1309423.0	0.018	Ok
088 SLD sism.	23966.7	1308279.0	0.018	Ok
089 SLD sism.	403938.3	1308198.0	0.309	Ok
090 SLD sism.	403977.8	1307104.0	0.309	Ok
091 SLD sism.	24122.5	1309425.0	0.018	Ok
092 SLD sism.	24082.6	1308281.0	0.018	Ok

7.3 Calcolo dei cedimenti

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

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

essendo

E = modulo elastico o edometrico

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

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

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

con:

$$M = B / z; N = L / z; V = M^2 + N^2 + 1; V1 = (M \times N)^2$$

Il valore massimo dei cedimenti elastici calcolati risulta essere pari a 5,626 cm, assolutamente compatibile con le dimensioni e la tipologia di struttura.

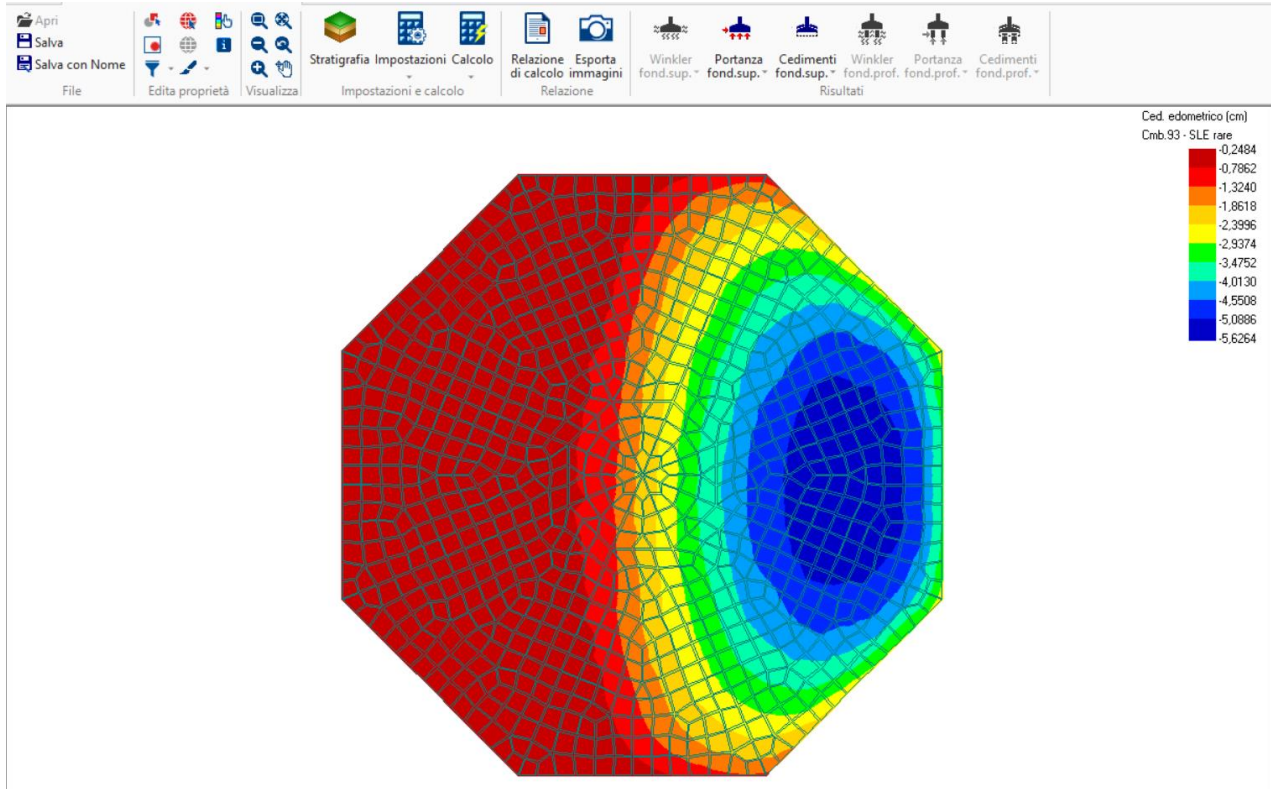


Figura 8: Cedimenti elastici.

7.4 Verifica a ribaltamento

Il calcolo si basa sulla valutazione dell'equilibrio alla rotazione intorno ad ognuno dei lati della fondazione, considerandoli come una cerniera lineare fissa, proiettando tutti i momenti (ribaltanti e stabilizzanti) nel piano verticale ortogonale ai singoli lati di base escludendo qualsivoglia forza di reazione del terreno (che allo stato limite di rotazione rigida infatti è privo di contatto con la fondazione).

Si tratta quindi di controllare se il rapporto tra il momento stabilizzante ed il momento ribaltante M_{stab}/M_{rib} sia superiore al fattore di sicurezza parziale $YR = 1,15$.

Il momento ribaltante è pari al valore massimo di momento trasmesso alla fondazione dall'aerogeneratore che, da scheda tecnica, vale:

$$M_r = 248548,63 \text{ kNm}$$

Il momento stabilizzante è dato dal prodotto del peso del plinto di fondazione più il peso del terreno di copertura moltiplicato per il braccio, ossia la distanza tra il baricentro del plinto di fondazione ed il punto di rotazione attorno al quale si studia l'equilibrio.

Il plinto di fondazione ha un peso di 19000 kN, il terreno di riempimento ha un volume di circa 620 mc, che moltiplicati per il peso specifico di 19 kN/mc ci da un peso di 11780 kN. Il braccio del



momento stabilizzante è pari al raggio della base del plinto circolare, ossia 12,25 m.

Otteniamo dunque che il momento stabilizzante vale:

$$M_s = \frac{(19000 \text{ kN} + 11780 \text{ kN}) * 12,25}{1,15} = 327873,91 \text{ kN}$$

Poiché M_s (327873,91 kNm) > M_r (248548,63 kNm) la verifica a ribaltamento risulta soddisfatta.



8 Verifiche geotecniche fondazione su pali

Come anticipato data la carenza di informazioni riguardo i terreni presenti in situ si è proceduti alla verifica delle opere di fondazione ipotizzate profonde. Nel dettaglio il plinto di diametro 30 m è stato modellato con la presenza di 15 pali di fondazione, di profondità 25 m e diametro 70 cm.

8.1 Capacità portante di fondazioni su pali

a) Pali resistenti a compressione

Il carico ultimo del palo a compressione risulta:

$$Q_{lim} = Q_{punta} + Q_{later} - P_{palo} - P_{attr_neg}$$

Q_{punta}: RESISTENZA ALLA PUNTA

- In terreni coesivi in condizioni non drenate:

$$Q_{punta} = (C_{up} \times N_c + \sigma_v) \times A_p \times R_c$$

essendo

C_{up} = coesione non drenata terreno alla quota della punta

N_c = coeff. di capacità portante = 9

σ_v = tensione verticale totale in punta

A_p = area della punta del palo

R_c = coeff. di Meyerhof per le argille S/C

$$R_c = \frac{D+1}{2D+1} \quad \text{per pali trivellati} \quad R_c = \frac{D+0,5}{2D} \quad \text{per pali infissi}$$

D = diametro del palo

- In terreni coesivi in condizioni drenate (secondo Vesic):

$$Q_{punta} = (\mu \times \sigma_v' \times N_q + c' \times N_c) \times A_p$$

essendo

$$\mu = \frac{1+2(1-\sin\phi')}{3}$$

$$N_q = \frac{3}{3-\sin\phi'} \exp \left[\left(\left(\frac{\pi}{2} - \phi' \right) \tan \phi' \right) \tan^2 \left(\frac{\pi}{4} + \frac{\phi'}{2} \right) \times Irr^{\frac{4 \sin \phi'}{3(1+\sin \phi')}} \right]$$



Irr = indice di rigidezza ridotta

$$Irr \approx Ir = \text{indice di rigidezza} = \frac{G}{c' + \sigma'_v \tan \phi'}$$

G = modulo elastico di taglio

σ'_v = tensione verticale efficace in punta

$$Nc = (Nq - 1) \cot \phi'$$

- In terreni incoerenti (secondo *Berezantzev*):

$$Q_{\text{punta}} = \sigma'_v \times \alpha q \times Nq \times Ap$$

essendo

αq = coeff. di riduzione per effetto silos in funzione di L/D

Nq = calcolato con ϕ^* secondo *Kishida*:

$$\phi^* = \phi' - 3^\circ \quad \text{per pali trivellati}$$

$$\phi^* = (\phi' + 40^\circ) / 2 \quad \text{per pali infissi}$$

L = lunghezza del palo

Qlater: RESISTENZA LATERALE

- In terreni coesivi in condizioni non drenate:

$$Q_{\text{later}} = \alpha \times C_{um} \times A_s$$

essendo

C_{um} = coesione non drenata media lungo lo strato

A_s = area della superficie laterale del palo

α = coeff. riduttivo in funzione delle modalità esecutive:

- per pali infissi:

$$\alpha = 1 \quad \text{per } C_u \leq 25 \text{ kPa (0,25 kg/cm}^2\text{)}$$

$$\alpha = 1 - 0,011(C_u - 25) \quad \text{per } 25 < C_u < 70 \text{ kPa}$$

$$\alpha = 0,5 \quad \text{per } C_u \geq 70 \text{ kPa (0,70 kg/cm}^2\text{)}$$

- per pali trivellati:

$$\alpha = 0,7 \quad \text{per } C_u \leq 25 \text{ kPa (0,25 kg/cm}^2\text{)}$$

$$\alpha = 0,7 - 0,008(C_u - 25) \quad \text{per } 25 < C_u < 70 \text{ kPa}$$

$$\alpha = 0,35 \quad \text{per } C_u \geq 70 \text{ kPa (0,70 kg/cm}^2\text{)}$$



- In terreni coesivi in condizioni drenate:

$$Q_{later} = (1 - \sin \phi') \cdot \sigma'_v(z) \cdot \mu \cdot A_s$$

essendo

$$\sigma'_v(z) = \text{tensione verticale efficace lungo il fusto del palo}$$

μ = coefficiente di attrito:

$$\mu = \tan \phi' \quad \text{per pali trivellati}$$

$$\mu = \tan (3/4 \cdot \phi') \quad \text{per pali infissi prefabbricati}$$

- In terreni incoerenti:

$$Q_{later} = K \cdot \sigma'_v(z) \cdot \mu \cdot A_s$$

essendo

$$\sigma'_v(z) = \text{tensione verticale efficace lungo il fusto del palo}$$

K = coefficiente di spinta:

$$K = (1 - \sin \phi') \quad \text{per pali trivellati}$$

$$K = 1 \quad \text{per pali infissi}$$

μ = coefficiente di attrito:

$$\mu = \tan \phi' \quad \text{per pali trivellati}$$

$$\mu = \tan(3/4 \cdot \phi') \quad \text{per pali infissi prefabbricati}$$

Patr_neg: CARICO DA ATTRITO NEGATIVO

$$Patr_neg = 0 \quad \text{in terreni coesivi in condizioni non drenate}$$

$$Patr_neg = A_s \times \beta \times \sigma'_m \quad \text{in terreni incoerenti o coesivi in condizioni drenate}$$

essendo

β = coeff. di Lambe

$$\sigma'_m = \text{pressione verticale efficace media lungo lo strato deformabile}$$

Il carico ammissibile risulta pari a:

$$Q_{amm} = \left(\frac{Q_{punta}}{\mu_p} + \frac{Q_{later} - P_{palo} - Patr_neg}{\mu_L} \right) \times E_g$$



dove:

μ_p = coefficiente di sicurezza del palo per resistenza di punta

μ_L = coefficiente di sicurezza del palo per resistenza laterale

E_g = coefficiente di efficienza dei pali in gruppo:

- in terreni coesivi:

a) per plinti rettangolari (secondo *Converse-La Barre*):

$$E_g = 1 - \arctan \frac{D}{i} \cdot \frac{(n-1)m + (m-1)n}{90mn}$$

con

m = numero delle file dei pali nel gruppo

n = numero di pali per ciascuna fila

i = interasse fra i pali

b) per plinti triangolari (secondo *Barla*):

$$E_g = 1 - \arctan \frac{D}{i} \cdot 7.05E - 03$$

c) per plinti rettangolari a cinque pali (secondo *Barla*):

$$E_g = 1 - \arctan \frac{D}{i} \cdot 10.85E - 03$$

- in terreni incoerenti:

$E_g = 1$ per pali infissi

$E_g = 2/3$ per pali trivellati

b) Pali resistenti a trazione

- Il carico ultimo del palo a trazione vale:

$$Q_{lim} = Q_{later} + P_{palo}$$

- Il carico ammissibile risulta invece pari a:

$$Q_{amm} = Q_{lim} / \mu_L$$

Per le analisi geotecniche si è utilizzata la stratigrafia preliminare ipotizzata per la STT04, STT10, STT14, STT18, STT19, STT21, STT24, STT26, STT27, STT28, STT29, STT30, STT31 in quanto

risultano essere le verticali dove si intercettano argille con caratteristiche geotecniche certamente peggiori rispetto a quelle che caratterizzano i suoli ipotizzati per le altre stratigrafie.

Unità litologica	Formazione	ϕ ($^{\circ}$)	C (kPa)	c_u (kPa)	γ t/m ³
STT04, STT10, STT14, STT18, STT19, STT21, STT24, STT26, STT27, STT28, STT29, STT30, STT31	Argille siltose e marnose da grigio-azzurre a grigio-chiare	25	20	50	19,5

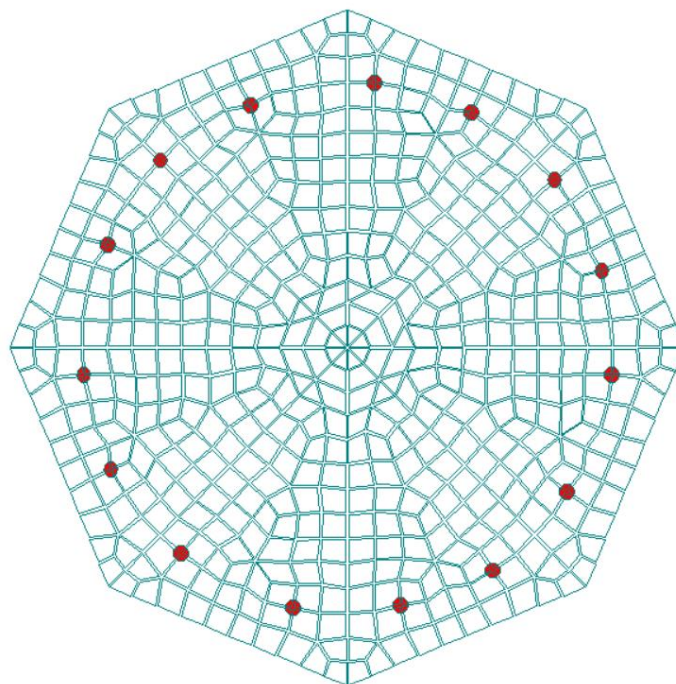


Figura 9: Discretizzazione mediante elementi shell della fondazione.

Archivio terreni

Descrizione terreno: **Argille siltose e marnose da grigio-azzurre a grigio-chiare**

Comportamento del terreno: condizione non drenata

Peso Spec.	P. Spec. Sat.	Coes.non dren.	Mod.Elast.	Mod.Edom.	Dens.Rel.	Poisson	C. Ades.
daN/c+mc	daN/cm ²	daN/cm ²	daN/cm ²	daN/cm ²	%	%	
1,950 E-3	1,950 E-3	0,500	112,000	240,000	60,0	0,400	0,80



Valori di calcolo della portanza verticale per fondazioni profonde

Elemento: 66 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-175000.0	-317123.8	0,552	Ver. OK
002	SLU STR	1	0.000	0.000	-134900.0	-317123.8	0,425	Ver. OK
003	SLU STR	1	0.000	0.000	-174300.0	-317123.8	0,550	Ver. OK
004	SLU STR	1	0.000	0.000	-134300.0	-317123.8	0,423	Ver. OK
005	SLU STR	1	0.000	0.000	-175000.0	-317123.8	0,552	Ver. OK
006	SLU STR	1	0.000	0.000	-134900.0	-317123.8	0,425	Ver. OK
007	SLU STR	1	0.000	0.000	-174300.0	-317123.8	0,550	Ver. OK
008	SLU STR	1	0.000	0.000	-134200.0	-317123.8	0,423	Ver. OK
009	SLU STR	1	0.000	0.000	-174300.0	-317123.8	0,550	Ver. OK
010	SLU STR	1	0.000	0.000	-134200.0	-317123.8	0,423	Ver. OK
011	SLU STR	1	0.000	0.000	-175000.0	-317123.8	0,552	Ver. OK
012	SLU STR	1	0.000	0.000	-135000.0	-317123.8	0,426	Ver. OK
013	SLU STR	1	0.000	0.000	-174400.0	-317123.8	0,550	Ver. OK
014	SLU STR	1	0.000	0.000	-134300.0	-317123.8	0,423	Ver. OK
015	SLU STR	1	0.000	0.000	-174400.0	-317123.8	0,550	Ver. OK
016	SLU STR	1	0.000	0.000	-134300.0	-317123.8	0,423	Ver. OK
017	SLU STR	1	0.000	0.000	-175000.0	-317123.8	0,552	Ver. OK
018	SLU STR	1	0.000	0.000	-134900.0	-317123.8	0,425	Ver. OK
019	SLU STR	1	0.000	0.000	-174300.0	-317123.8	0,550	Ver. OK
020	SLU STR	1	0.000	0.000	-134200.0	-317123.8	0,423	Ver. OK
021	SLU STR	1	0.000	0.000	-174300.0	-317123.8	0,550	Ver. OK
022	SLU STR	1	0.000	0.000	-134200.0	-317123.8	0,423	Ver. OK
023	SLU STR	1	0.000	0.000	-175000.0	-317123.8	0,552	Ver. OK
024	SLU STR	1	0.000	0.000	-135000.0	-317123.8	0,426	Ver. OK
025	SLU STR	1	0.000	0.000	-174400.0	-317123.8	0,550	Ver. OK
026	SLU STR	1	0.000	0.000	-134300.0	-317123.8	0,423	Ver. OK
027	SLU STR	1	0.000	0.000	-174400.0	-317123.8	0,550	Ver. OK
028	SLU STR	1	0.000	0.000	-134300.0	-317123.8	0,423	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-136000.0	-317123.8	0,429	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-132300.0	-317123.8	0,417	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-134900.0	-317123.8	0,425	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-131200.0	-317123.8	0,414	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-136000.0	-317123.8	0,429	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-132300.0	-317123.8	0,417	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-134900.0	-317123.8	0,425	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-131200.0	-317123.8	0,414	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-136000.0	-317123.8	0,429	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-132300.0	-317123.8	0,417	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-134900.0	-317123.8	0,425	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-131200.0	-317123.8	0,414	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-136000.0	-317123.8	0,429	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-132300.0	-317123.8	0,417	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-134900.0	-317123.8	0,425	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-131200.0	-317123.8	0,414	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-139900.0	-317123.8	0,441	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-127600.0	-317123.8	0,402	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-139600.0	-317123.8	0,440	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-127300.0	-317123.8	0,401	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-139900.0	-317123.8	0,441	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-127600.0	-317123.8	0,402	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-139600.0	-317123.8	0,440	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-127300.0	-317123.8	0,401	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-139900.0	-317123.8	0,441	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-127600.0	-317123.8	0,402	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-139600.0	-317123.8	0,440	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-127300.0	-317123.8	0,401	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-139900.0	-317123.8	0,441	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-127600.0	-317123.8	0,402	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-139600.0	-317123.8	0,440	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-127300.0	-317123.8	0,401	Ver. OK



061	SLD sism.	1	0.000	0.000	-135500.0	-317123.8	0,427	Ver. OK
062	SLD sism.	1	0.000	0.000	-132600.0	-317123.8	0,418	Ver. OK
063	SLD sism.	1	0.000	0.000	-134600.0	-317123.8	0,424	Ver. OK
064	SLD sism.	1	0.000	0.000	-131700.0	-317123.8	0,415	Ver. OK
065	SLD sism.	1	0.000	0.000	-135400.0	-317123.8	0,427	Ver. OK
066	SLD sism.	1	0.000	0.000	-132600.0	-317123.8	0,418	Ver. OK
067	SLD sism.	1	0.000	0.000	-134600.0	-317123.8	0,424	Ver. OK
068	SLD sism.	1	0.000	0.000	-131700.0	-317123.8	0,415	Ver. OK
069	SLD sism.	1	0.000	0.000	-135500.0	-317123.8	0,427	Ver. OK
070	SLD sism.	1	0.000	0.000	-132600.0	-317123.8	0,418	Ver. OK
071	SLD sism.	1	0.000	0.000	-134600.0	-317123.8	0,424	Ver. OK
072	SLD sism.	1	0.000	0.000	-131700.0	-317123.8	0,415	Ver. OK
073	SLD sism.	1	0.000	0.000	-135500.0	-317123.8	0,427	Ver. OK
074	SLD sism.	1	0.000	0.000	-132600.0	-317123.8	0,418	Ver. OK
075	SLD sism.	1	0.000	0.000	-134600.0	-317123.8	0,424	Ver. OK
076	SLD sism.	1	0.000	0.000	-131700.0	-317123.8	0,415	Ver. OK
077	SLD sism.	1	0.000	0.000	-138500.0	-317123.8	0,437	Ver. OK
078	SLD sism.	1	0.000	0.000	-128900.0	-317123.8	0,406	Ver. OK
079	SLD sism.	1	0.000	0.000	-138200.0	-317123.8	0,436	Ver. OK
080	SLD sism.	1	0.000	0.000	-128700.0	-317123.8	0,406	Ver. OK
081	SLD sism.	1	0.000	0.000	-138500.0	-317123.8	0,437	Ver. OK
082	SLD sism.	1	0.000	0.000	-128900.0	-317123.8	0,406	Ver. OK
083	SLD sism.	1	0.000	0.000	-138200.0	-317123.8	0,436	Ver. OK
084	SLD sism.	1	0.000	0.000	-128700.0	-317123.8	0,406	Ver. OK
085	SLD sism.	1	0.000	0.000	-138500.0	-317123.8	0,437	Ver. OK
086	SLD sism.	1	0.000	0.000	-128900.0	-317123.8	0,406	Ver. OK
087	SLD sism.	1	0.000	0.000	-138200.0	-317123.8	0,436	Ver. OK
088	SLD sism.	1	0.000	0.000	-128700.0	-317123.8	0,406	Ver. OK
089	SLD sism.	1	0.000	0.000	-138500.0	-317123.8	0,437	Ver. OK
090	SLD sism.	1	0.000	0.000	-128900.0	-317123.8	0,406	Ver. OK
091	SLD sism.	1	0.000	0.000	-138200.0	-317123.8	0,436	Ver. OK
092	SLD sism.	1	0.000	0.000	-128700.0	-317123.8	0,406	Ver. OK

Situazione più gravosa in cmb n. 1

Elemento: 82 - Palo singolo

$N_q = 14.371$, $\sigma_{\text{punta}} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{\text{punta}} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-229400.0	-317123.8	0,723	Ver. OK
002	SLU STR	1	0.000	0.000	-176700.0	-317123.8	0,557	Ver. OK
003	SLU STR	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
004	SLU STR	1	0.000	0.000	-176100.0	-317123.8	0,555	Ver. OK
005	SLU STR	1	0.000	0.000	-229300.0	-317123.8	0,723	Ver. OK
006	SLU STR	1	0.000	0.000	-176700.0	-317123.8	0,557	Ver. OK
007	SLU STR	1	0.000	0.000	-228600.0	-317123.8	0,721	Ver. OK
008	SLU STR	1	0.000	0.000	-176000.0	-317123.8	0,555	Ver. OK
009	SLU STR	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
010	SLU STR	1	0.000	0.000	-176000.0	-317123.8	0,555	Ver. OK
011	SLU STR	1	0.000	0.000	-229400.0	-317123.8	0,723	Ver. OK
012	SLU STR	1	0.000	0.000	-176800.0	-317123.8	0,558	Ver. OK
013	SLU STR	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
014	SLU STR	1	0.000	0.000	-176100.0	-317123.8	0,555	Ver. OK
015	SLU STR	1	0.000	0.000	-228800.0	-317123.8	0,721	Ver. OK
016	SLU STR	1	0.000	0.000	-176100.0	-317123.8	0,555	Ver. OK
017	SLU STR	1	0.000	0.000	-229300.0	-317123.8	0,723	Ver. OK
018	SLU STR	1	0.000	0.000	-176700.0	-317123.8	0,557	Ver. OK
019	SLU STR	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
020	SLU STR	1	0.000	0.000	-176000.0	-317123.8	0,555	Ver. OK
021	SLU STR	1	0.000	0.000	-228600.0	-317123.8	0,721	Ver. OK
022	SLU STR	1	0.000	0.000	-176000.0	-317123.8	0,555	Ver. OK
023	SLU STR	1	0.000	0.000	-229400.0	-317123.8	0,723	Ver. OK
024	SLU STR	1	0.000	0.000	-176800.0	-317123.8	0,558	Ver. OK
025	SLU STR	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
026	SLU STR	1	0.000	0.000	-176100.0	-317123.8	0,555	Ver. OK
027	SLU STR	1	0.000	0.000	-228800.0	-317123.8	0,721	Ver. OK



028	SLV STR	1	0.000	0.000	-176100.0	-317123.8	0,555	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-179800.0	-317123.8	0,567	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-176600.0	-317123.8	0,557	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-174300.0	-317123.8	0,550	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-171000.0	-317123.8	0,539	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-179800.0	-317123.8	0,567	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-176600.0	-317123.8	0,557	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-174300.0	-317123.8	0,550	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-171000.0	-317123.8	0,539	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-179900.0	-317123.8	0,567	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-176600.0	-317123.8	0,557	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-174200.0	-317123.8	0,549	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-171000.0	-317123.8	0,539	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-179800.0	-317123.8	0,567	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-176600.0	-317123.8	0,557	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-174200.0	-317123.8	0,549	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-171000.0	-317123.8	0,539	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-181700.0	-317123.8	0,573	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-170800.0	-317123.8	0,539	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-180000.0	-317123.8	0,568	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-169100.0	-317123.8	0,533	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-181700.0	-317123.8	0,573	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-170800.0	-317123.8	0,539	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-180000.0	-317123.8	0,568	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-169100.0	-317123.8	0,533	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-181700.0	-317123.8	0,573	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-170800.0	-317123.8	0,539	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-180000.0	-317123.8	0,568	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-169200.0	-317123.8	0,534	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-181700.0	-317123.8	0,573	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-170800.0	-317123.8	0,539	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-180000.0	-317123.8	0,568	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-169200.0	-317123.8	0,534	Ver. OK
061	SLD sism.	1	0.000	0.000	-178800.0	-317123.8	0,564	Ver. OK
062	SLD sism.	1	0.000	0.000	-176300.0	-317123.8	0,556	Ver. OK
063	SLD sism.	1	0.000	0.000	-174500.0	-317123.8	0,550	Ver. OK
064	SLD sism.	1	0.000	0.000	-172000.0	-317123.8	0,542	Ver. OK
065	SLD sism.	1	0.000	0.000	-178800.0	-317123.8	0,564	Ver. OK
066	SLD sism.	1	0.000	0.000	-176300.0	-317123.8	0,556	Ver. OK
067	SLD sism.	1	0.000	0.000	-174500.0	-317123.8	0,550	Ver. OK
068	SLD sism.	1	0.000	0.000	-172000.0	-317123.8	0,542	Ver. OK
069	SLD sism.	1	0.000	0.000	-178900.0	-317123.8	0,564	Ver. OK
070	SLD sism.	1	0.000	0.000	-176300.0	-317123.8	0,556	Ver. OK
071	SLD sism.	1	0.000	0.000	-174500.0	-317123.8	0,550	Ver. OK
072	SLD sism.	1	0.000	0.000	-172000.0	-317123.8	0,542	Ver. OK
073	SLD sism.	1	0.000	0.000	-178900.0	-317123.8	0,564	Ver. OK
074	SLD sism.	1	0.000	0.000	-176300.0	-317123.8	0,556	Ver. OK
075	SLD sism.	1	0.000	0.000	-174500.0	-317123.8	0,550	Ver. OK
076	SLD sism.	1	0.000	0.000	-172000.0	-317123.8	0,542	Ver. OK
077	SLD sism.	1	0.000	0.000	-180300.0	-317123.8	0,569	Ver. OK
078	SLD sism.	1	0.000	0.000	-171800.0	-317123.8	0,542	Ver. OK
079	SLD sism.	1	0.000	0.000	-179000.0	-317123.8	0,564	Ver. OK
080	SLD sism.	1	0.000	0.000	-170500.0	-317123.8	0,538	Ver. OK
081	SLD sism.	1	0.000	0.000	-180300.0	-317123.8	0,569	Ver. OK
082	SLD sism.	1	0.000	0.000	-171800.0	-317123.8	0,542	Ver. OK
083	SLD sism.	1	0.000	0.000	-179000.0	-317123.8	0,564	Ver. OK
084	SLD sism.	1	0.000	0.000	-170500.0	-317123.8	0,538	Ver. OK
085	SLD sism.	1	0.000	0.000	-180300.0	-317123.8	0,569	Ver. OK
086	SLD sism.	1	0.000	0.000	-171900.0	-317123.8	0,542	Ver. OK
087	SLD sism.	1	0.000	0.000	-179000.0	-317123.8	0,564	Ver. OK
088	SLD sism.	1	0.000	0.000	-170600.0	-317123.8	0,538	Ver. OK
089	SLD sism.	1	0.000	0.000	-180300.0	-317123.8	0,569	Ver. OK
090	SLD sism.	1	0.000	0.000	-171900.0	-317123.8	0,542	Ver. OK
091	SLD sism.	1	0.000	0.000	-179000.0	-317123.8	0,564	Ver. OK
092	SLD sism.	1	0.000	0.000	-170500.0	-317123.8	0,538	Ver. OK



Elemento: 131 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-277300.0	-317123.8	0,874	Ver. OK
002	SLU STR	1	0.000	0.000	-213600.0	-317123.8	0,674	Ver. OK
003	SLU STR	1	0.000	0.000	-276600.0	-317123.8	0,872	Ver. OK
004	SLU STR	1	0.000	0.000	-212900.0	-317123.8	0,671	Ver. OK
005	SLU STR	1	0.000	0.000	-277200.0	-317123.8	0,874	Ver. OK
006	SLU STR	1	0.000	0.000	-213500.0	-317123.8	0,673	Ver. OK
007	SLU STR	1	0.000	0.000	-276500.0	-317123.8	0,872	Ver. OK
008	SLU STR	1	0.000	0.000	-212900.0	-317123.8	0,671	Ver. OK
009	SLU STR	1	0.000	0.000	-276600.0	-317123.8	0,872	Ver. OK
010	SLU STR	1	0.000	0.000	-212900.0	-317123.8	0,671	Ver. OK
011	SLU STR	1	0.000	0.000	-277300.0	-317123.8	0,874	Ver. OK
012	SLU STR	1	0.000	0.000	-213600.0	-317123.8	0,674	Ver. OK
013	SLU STR	1	0.000	0.000	-276600.0	-317123.8	0,872	Ver. OK
014	SLU STR	1	0.000	0.000	-213000.0	-317123.8	0,672	Ver. OK
015	SLU STR	1	0.000	0.000	-276700.0	-317123.8	0,873	Ver. OK
016	SLU STR	1	0.000	0.000	-213000.0	-317123.8	0,672	Ver. OK
017	SLU STR	1	0.000	0.000	-277200.0	-317123.8	0,874	Ver. OK
018	SLU STR	1	0.000	0.000	-213500.0	-317123.8	0,673	Ver. OK
019	SLU STR	1	0.000	0.000	-276600.0	-317123.8	0,872	Ver. OK
020	SLU STR	1	0.000	0.000	-212900.0	-317123.8	0,671	Ver. OK
021	SLU STR	1	0.000	0.000	-276500.0	-317123.8	0,872	Ver. OK
022	SLU STR	1	0.000	0.000	-212900.0	-317123.8	0,671	Ver. OK
023	SLU STR	1	0.000	0.000	-277300.0	-317123.8	0,874	Ver. OK
024	SLU STR	1	0.000	0.000	-213600.0	-317123.8	0,674	Ver. OK
025	SLU STR	1	0.000	0.000	-276600.0	-317123.8	0,872	Ver. OK
026	SLU STR	1	0.000	0.000	-213000.0	-317123.8	0,672	Ver. OK
027	SLU STR	1	0.000	0.000	-276700.0	-317123.8	0,873	Ver. OK
028	SLU STR	1	0.000	0.000	-213000.0	-317123.8	0,672	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-218200.0	-317123.8	0,688	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-215900.0	-317123.8	0,681	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-208700.0	-317123.8	0,658	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-206400.0	-317123.8	0,651	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-218200.0	-317123.8	0,688	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-215900.0	-317123.8	0,681	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-208700.0	-317123.8	0,658	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-206400.0	-317123.8	0,651	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-218200.0	-317123.8	0,688	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-215900.0	-317123.8	0,681	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-208700.0	-317123.8	0,658	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-206300.0	-317123.8	0,651	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-218200.0	-317123.8	0,688	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-215900.0	-317123.8	0,681	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-208600.0	-317123.8	0,658	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-206400.0	-317123.8	0,651	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-217500.0	-317123.8	0,686	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-209800.0	-317123.8	0,662	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-214700.0	-317123.8	0,677	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-207000.0	-317123.8	0,653	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-217500.0	-317123.8	0,686	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-209900.0	-317123.8	0,662	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-214700.0	-317123.8	0,677	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-207000.0	-317123.8	0,653	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-217500.0	-317123.8	0,686	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-209900.0	-317123.8	0,662	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-214700.0	-317123.8	0,677	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-207000.0	-317123.8	0,653	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-217500.0	-317123.8	0,686	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-209900.0	-317123.8	0,662	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-214700.0	-317123.8	0,677	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-207000.0	-317123.8	0,653	Ver. OK
061	SLD sism.	1	0.000	0.000	-216900.0	-317123.8	0,684	Ver. OK
062	SLD sism.	1	0.000	0.000	-215100.0	-317123.8	0,678	Ver. OK



063	SLD sism.	1	0.000	0.000	-209500.0	-317123.8	0,661	Ver. OK
064	SLD sism.	1	0.000	0.000	-207700.0	-317123.8	0,655	Ver. OK
065	SLD sism.	1	0.000	0.000	-216800.0	-317123.8	0,684	Ver. OK
066	SLD sism.	1	0.000	0.000	-215100.0	-317123.8	0,678	Ver. OK
067	SLD sism.	1	0.000	0.000	-209500.0	-317123.8	0,661	Ver. OK
068	SLD sism.	1	0.000	0.000	-207700.0	-317123.8	0,655	Ver. OK
069	SLD sism.	1	0.000	0.000	-216900.0	-317123.8	0,684	Ver. OK
070	SLD sism.	1	0.000	0.000	-215100.0	-317123.8	0,678	Ver. OK
071	SLD sism.	1	0.000	0.000	-209500.0	-317123.8	0,661	Ver. OK
072	SLD sism.	1	0.000	0.000	-207700.0	-317123.8	0,655	Ver. OK
073	SLD sism.	1	0.000	0.000	-216900.0	-317123.8	0,684	Ver. OK
074	SLD sism.	1	0.000	0.000	-215100.0	-317123.8	0,678	Ver. OK
075	SLD sism.	1	0.000	0.000	-209500.0	-317123.8	0,661	Ver. OK
076	SLD sism.	1	0.000	0.000	-207700.0	-317123.8	0,655	Ver. OK
077	SLD sism.	1	0.000	0.000	-216400.0	-317123.8	0,682	Ver. OK
078	SLD sism.	1	0.000	0.000	-210400.0	-317123.8	0,663	Ver. OK
079	SLD sism.	1	0.000	0.000	-214200.0	-317123.8	0,675	Ver. OK
080	SLD sism.	1	0.000	0.000	-208200.0	-317123.8	0,657	Ver. OK
081	SLD sism.	1	0.000	0.000	-216400.0	-317123.8	0,682	Ver. OK
082	SLD sism.	1	0.000	0.000	-210400.0	-317123.8	0,663	Ver. OK
083	SLD sism.	1	0.000	0.000	-214100.0	-317123.8	0,675	Ver. OK
084	SLD sism.	1	0.000	0.000	-208200.0	-317123.8	0,657	Ver. OK
085	SLD sism.	1	0.000	0.000	-216300.0	-317123.8	0,682	Ver. OK
086	SLD sism.	1	0.000	0.000	-210400.0	-317123.8	0,663	Ver. OK
087	SLD sism.	1	0.000	0.000	-214100.0	-317123.8	0,675	Ver. OK
088	SLD sism.	1	0.000	0.000	-208200.0	-317123.8	0,657	Ver. OK
089	SLD sism.	1	0.000	0.000	-216300.0	-317123.8	0,682	Ver. OK
090	SLD sism.	1	0.000	0.000	-210400.0	-317123.8	0,663	Ver. OK
091	SLD sism.	1	0.000	0.000	-214100.0	-317123.8	0,675	Ver. OK
092	SLD sism.	1	0.000	0.000	-208200.0	-317123.8	0,657	Ver. OK

Situazione più gravosa in cmb n. 1

Elemento: 149 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-307100.0	-317123.8	0,968	Ver. OK
002	SLU STR	1	0.000	0.000	-236500.0	-317123.8	0,746	Ver. OK
003	SLU STR	1	0.000	0.000	-306400.0	-317123.8	0,966	Ver. OK
004	SLU STR	1	0.000	0.000	-235900.0	-317123.8	0,744	Ver. OK
005	SLU STR	1	0.000	0.000	-307000.0	-317123.8	0,968	Ver. OK
006	SLU STR	1	0.000	0.000	-236500.0	-317123.8	0,746	Ver. OK
007	SLU STR	1	0.000	0.000	-306400.0	-317123.8	0,966	Ver. OK
008	SLU STR	1	0.000	0.000	-235800.0	-317123.8	0,744	Ver. OK
009	SLU STR	1	0.000	0.000	-306400.0	-317123.8	0,966	Ver. OK
010	SLU STR	1	0.000	0.000	-235800.0	-317123.8	0,744	Ver. OK
011	SLU STR	1	0.000	0.000	-307100.0	-317123.8	0,968	Ver. OK
012	SLU STR	1	0.000	0.000	-236600.0	-317123.8	0,746	Ver. OK
013	SLU STR	1	0.000	0.000	-306500.0	-317123.8	0,966	Ver. OK
014	SLU STR	1	0.000	0.000	-235900.0	-317123.8	0,744	Ver. OK
015	SLU STR	1	0.000	0.000	-306500.0	-317123.8	0,966	Ver. OK
016	SLU STR	1	0.000	0.000	-235900.0	-317123.8	0,744	Ver. OK
017	SLU STR	1	0.000	0.000	-307000.0	-317123.8	0,968	Ver. OK
018	SLU STR	1	0.000	0.000	-236500.0	-317123.8	0,746	Ver. OK
019	SLU STR	1	0.000	0.000	-306400.0	-317123.8	0,966	Ver. OK
020	SLU STR	1	0.000	0.000	-235800.0	-317123.8	0,744	Ver. OK
021	SLU STR	1	0.000	0.000	-306400.0	-317123.8	0,966	Ver. OK
022	SLU STR	1	0.000	0.000	-235800.0	-317123.8	0,744	Ver. OK
023	SLU STR	1	0.000	0.000	-307100.0	-317123.8	0,968	Ver. OK
024	SLU STR	1	0.000	0.000	-236600.0	-317123.8	0,746	Ver. OK
025	SLU STR	1	0.000	0.000	-306500.0	-317123.8	0,966	Ver. OK
026	SLU STR	1	0.000	0.000	-235900.0	-317123.8	0,744	Ver. OK
027	SLU STR	1	0.000	0.000	-306500.0	-317123.8	0,966	Ver. OK
028	SLU STR	1	0.000	0.000	-235900.0	-317123.8	0,744	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK



030	SLV A1 sism.	1	0.000	0.000	-240600.0	-317123.8	0,759	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-229800.0	-317123.8	0,725	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-228800.0	-317123.8	0,721	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-240600.0	-317123.8	0,759	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-229800.0	-317123.8	0,725	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-228800.0	-317123.8	0,721	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-240600.0	-317123.8	0,759	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-229800.0	-317123.8	0,725	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-228800.0	-317123.8	0,721	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-240600.0	-317123.8	0,759	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-229800.0	-317123.8	0,725	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-228800.0	-317123.8	0,721	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-238700.0	-317123.8	0,753	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-231700.0	-317123.8	0,731	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-238700.0	-317123.8	0,753	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-235300.0	-317123.8	0,742	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-231700.0	-317123.8	0,731	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-238700.0	-317123.8	0,753	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-235300.0	-317123.8	0,742	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-235100.0	-317123.8	0,741	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-231700.0	-317123.8	0,731	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-238700.0	-317123.8	0,753	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-235300.0	-317123.8	0,742	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-235100.0	-317123.8	0,741	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-231700.0	-317123.8	0,731	Ver. OK
061	SLD sism.	1	0.000	0.000	-240200.0	-317123.8	0,757	Ver. OK
062	SLD sism.	1	0.000	0.000	-239400.0	-317123.8	0,755	Ver. OK
063	SLD sism.	1	0.000	0.000	-231000.0	-317123.8	0,728	Ver. OK
064	SLD sism.	1	0.000	0.000	-230200.0	-317123.8	0,726	Ver. OK
065	SLD sism.	1	0.000	0.000	-240200.0	-317123.8	0,757	Ver. OK
066	SLD sism.	1	0.000	0.000	-239400.0	-317123.8	0,755	Ver. OK
067	SLD sism.	1	0.000	0.000	-231000.0	-317123.8	0,728	Ver. OK
068	SLD sism.	1	0.000	0.000	-230200.0	-317123.8	0,726	Ver. OK
069	SLD sism.	1	0.000	0.000	-240200.0	-317123.8	0,757	Ver. OK
070	SLD sism.	1	0.000	0.000	-239400.0	-317123.8	0,755	Ver. OK
071	SLD sism.	1	0.000	0.000	-231000.0	-317123.8	0,728	Ver. OK
072	SLD sism.	1	0.000	0.000	-230200.0	-317123.8	0,726	Ver. OK
073	SLD sism.	1	0.000	0.000	-240200.0	-317123.8	0,757	Ver. OK
074	SLD sism.	1	0.000	0.000	-239400.0	-317123.8	0,755	Ver. OK
075	SLD sism.	1	0.000	0.000	-231000.0	-317123.8	0,728	Ver. OK
076	SLD sism.	1	0.000	0.000	-230200.0	-317123.8	0,726	Ver. OK
077	SLD sism.	1	0.000	0.000	-237900.0	-317123.8	0,750	Ver. OK
078	SLD sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
079	SLD sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
080	SLD sism.	1	0.000	0.000	-232500.0	-317123.8	0,733	Ver. OK
081	SLD sism.	1	0.000	0.000	-237900.0	-317123.8	0,750	Ver. OK
082	SLD sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
083	SLD sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
084	SLD sism.	1	0.000	0.000	-232500.0	-317123.8	0,733	Ver. OK
085	SLD sism.	1	0.000	0.000	-237900.0	-317123.8	0,750	Ver. OK
086	SLD sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
087	SLD sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
088	SLD sism.	1	0.000	0.000	-232500.0	-317123.8	0,733	Ver. OK
089	SLD sism.	1	0.000	0.000	-237900.0	-317123.8	0,750	Ver. OK
090	SLD sism.	1	0.000	0.000	-235300.0	-317123.8	0,742	Ver. OK
091	SLD sism.	1	0.000	0.000	-235200.0	-317123.8	0,742	Ver. OK
092	SLD sism.	1	0.000	0.000	-232500.0	-317123.8	0,733	Ver. OK

Situazione più gravosa in cmb n. 1

Elemento: 197 - Palo singolo



$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-316900.0	-317123.8	0,999	Ver. OK
002	SLU STR	1	0.000	0.000	-244100.0	-317123.8	0,770	Ver. OK
003	SLU STR	1	0.000	0.000	-316300.0	-317123.8	0,997	Ver. OK
004	SLU STR	1	0.000	0.000	-243400.0	-317123.8	0,768	Ver. OK
005	SLU STR	1	0.000	0.000	-316900.0	-317123.8	0,999	Ver. OK
006	SLU STR	1	0.000	0.000	-244100.0	-317123.8	0,770	Ver. OK
007	SLU STR	1	0.000	0.000	-316200.0	-317123.8	0,997	Ver. OK
008	SLU STR	1	0.000	0.000	-243400.0	-317123.8	0,768	Ver. OK
009	SLU STR	1	0.000	0.000	-316200.0	-317123.8	0,997	Ver. OK
010	SLU STR	1	0.000	0.000	-243400.0	-317123.8	0,768	Ver. OK
011	SLU STR	1	0.000	0.000	-317000.0	-317123.8	1,000	Ver. OK
012	SLU STR	1	0.000	0.000	-244100.0	-317123.8	0,770	Ver. OK
013	SLU STR	1	0.000	0.000	-316300.0	-317123.8	0,997	Ver. OK
014	SLU STR	1	0.000	0.000	-243500.0	-317123.8	0,768	Ver. OK
015	SLU STR	1	0.000	0.000	-316400.0	-317123.8	0,998	Ver. OK
016	SLU STR	1	0.000	0.000	-243500.0	-317123.8	0,768	Ver. OK
017	SLU STR	1	0.000	0.000	-316900.0	-317123.8	0,999	Ver. OK
018	SLU STR	1	0.000	0.000	-244100.0	-317123.8	0,770	Ver. OK
019	SLU STR	1	0.000	0.000	-316200.0	-317123.8	0,997	Ver. OK
020	SLU STR	1	0.000	0.000	-243400.0	-317123.8	0,768	Ver. OK
021	SLU STR	1	0.000	0.000	-316200.0	-317123.8	0,997	Ver. OK
022	SLU STR	1	0.000	0.000	-243400.0	-317123.8	0,768	Ver. OK
023	SLU STR	1	0.000	0.000	-317000.0	-317123.8	1,000	Ver. OK
024	SLU STR	1	0.000	0.000	-244100.0	-317123.8	0,770	Ver. OK
025	SLU STR	1	0.000	0.000	-316300.0	-317123.8	0,997	Ver. OK
026	SLU STR	1	0.000	0.000	-243500.0	-317123.8	0,768	Ver. OK
027	SLU STR	1	0.000	0.000	-316400.0	-317123.8	0,998	Ver. OK
028	SLU STR	1	0.000	0.000	-243500.0	-317123.8	0,768	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-248700.0	-317123.8	0,784	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-249200.0	-317123.8	0,786	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-236400.0	-317123.8	0,745	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-236800.0	-317123.8	0,747	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-248700.0	-317123.8	0,784	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-249200.0	-317123.8	0,786	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-236400.0	-317123.8	0,745	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-236800.0	-317123.8	0,747	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-248700.0	-317123.8	0,784	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-249200.0	-317123.8	0,786	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-236400.0	-317123.8	0,745	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-236800.0	-317123.8	0,747	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-248700.0	-317123.8	0,784	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-249100.0	-317123.8	0,785	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-236400.0	-317123.8	0,745	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-236800.0	-317123.8	0,747	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-243900.0	-317123.8	0,769	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-245300.0	-317123.8	0,774	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-240200.0	-317123.8	0,757	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-243900.0	-317123.8	0,769	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-245300.0	-317123.8	0,774	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-240300.0	-317123.8	0,758	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-244000.0	-317123.8	0,769	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-245300.0	-317123.8	0,774	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-240300.0	-317123.8	0,758	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-244000.0	-317123.8	0,769	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-245300.0	-317123.8	0,774	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-240300.0	-317123.8	0,758	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-241600.0	-317123.8	0,762	Ver. OK
061	SLD sism.	1	0.000	0.000	-247400.0	-317123.8	0,780	Ver. OK
062	SLD sism.	1	0.000	0.000	-247700.0	-317123.8	0,781	Ver. OK
063	SLD sism.	1	0.000	0.000	-237800.0	-317123.8	0,750	Ver. OK



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064	SLD sism.	1	0.000	0.000	-238200.0	-317123.8	0,751	Ver. OK
065	SLD sism.	1	0.000	0.000	-247400.0	-317123.8	0,780	Ver. OK
066	SLD sism.	1	0.000	0.000	-247700.0	-317123.8	0,781	Ver. OK
067	SLD sism.	1	0.000	0.000	-237800.0	-317123.8	0,750	Ver. OK
068	SLD sism.	1	0.000	0.000	-238100.0	-317123.8	0,751	Ver. OK
069	SLD sism.	1	0.000	0.000	-247400.0	-317123.8	0,780	Ver. OK
070	SLD sism.	1	0.000	0.000	-247700.0	-317123.8	0,781	Ver. OK
071	SLD sism.	1	0.000	0.000	-237800.0	-317123.8	0,750	Ver. OK
072	SLD sism.	1	0.000	0.000	-238200.0	-317123.8	0,751	Ver. OK
073	SLD sism.	1	0.000	0.000	-247400.0	-317123.8	0,780	Ver. OK
074	SLD sism.	1	0.000	0.000	-247700.0	-317123.8	0,781	Ver. OK
075	SLD sism.	1	0.000	0.000	-237800.0	-317123.8	0,750	Ver. OK
076	SLD sism.	1	0.000	0.000	-238200.0	-317123.8	0,751	Ver. OK
077	SLD sism.	1	0.000	0.000	-243700.0	-317123.8	0,768	Ver. OK
078	SLD sism.	1	0.000	0.000	-244800.0	-317123.8	0,772	Ver. OK
079	SLD sism.	1	0.000	0.000	-240800.0	-317123.8	0,759	Ver. OK
080	SLD sism.	1	0.000	0.000	-241900.0	-317123.8	0,763	Ver. OK
081	SLD sism.	1	0.000	0.000	-243700.0	-317123.8	0,768	Ver. OK
082	SLD sism.	1	0.000	0.000	-244800.0	-317123.8	0,772	Ver. OK
083	SLD sism.	1	0.000	0.000	-240800.0	-317123.8	0,759	Ver. OK
084	SLD sism.	1	0.000	0.000	-241900.0	-317123.8	0,763	Ver. OK
085	SLD sism.	1	0.000	0.000	-243700.0	-317123.8	0,768	Ver. OK
086	SLD sism.	1	0.000	0.000	-244700.0	-317123.8	0,772	Ver. OK
087	SLD sism.	1	0.000	0.000	-240800.0	-317123.8	0,759	Ver. OK
088	SLD sism.	1	0.000	0.000	-241900.0	-317123.8	0,763	Ver. OK
089	SLD sism.	1	0.000	0.000	-243700.0	-317123.8	0,768	Ver. OK
090	SLD sism.	1	0.000	0.000	-244700.0	-317123.8	0,772	Ver. OK
091	SLD sism.	1	0.000	0.000	-240800.0	-317123.8	0,759	Ver. OK
092	SLD sism.	1	0.000	0.000	-241900.0	-317123.8	0,763	Ver. OK

Situazione più gravosa in cmb n. 11

Elemento: 217 - Palo singoloNq = 14.371, $\sigma_{\text{punta}} = 4.968$, $\phi = 24.0$, Nc = 30.031, c punta = 0.050

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb. n.	Tipo	Palo n.	coord.X cm	coord.Y cm	N daN	N lim daN	Ver.N	Stato
001	SLU STR	1	0.000	0.000	-296800.0	-317123.8	0,936	Ver. OK
002	SLU STR	1	0.000	0.000	-228600.0	-317123.8	0,721	Ver. OK
003	SLU STR	1	0.000	0.000	-296100.0	-317123.8	0,934	Ver. OK
004	SLU STR	1	0.000	0.000	-227900.0	-317123.8	0,719	Ver. OK
005	SLU STR	1	0.000	0.000	-296800.0	-317123.8	0,936	Ver. OK
006	SLU STR	1	0.000	0.000	-228600.0	-317123.8	0,721	Ver. OK
007	SLU STR	1	0.000	0.000	-296100.0	-317123.8	0,934	Ver. OK
008	SLU STR	1	0.000	0.000	-227900.0	-317123.8	0,719	Ver. OK
009	SLU STR	1	0.000	0.000	-296100.0	-317123.8	0,934	Ver. OK
010	SLU STR	1	0.000	0.000	-227900.0	-317123.8	0,719	Ver. OK
011	SLU STR	1	0.000	0.000	-296800.0	-317123.8	0,936	Ver. OK
012	SLU STR	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
013	SLU STR	1	0.000	0.000	-296200.0	-317123.8	0,934	Ver. OK
014	SLU STR	1	0.000	0.000	-228000.0	-317123.8	0,719	Ver. OK
015	SLU STR	1	0.000	0.000	-296200.0	-317123.8	0,934	Ver. OK
016	SLU STR	1	0.000	0.000	-228000.0	-317123.8	0,719	Ver. OK
017	SLU STR	1	0.000	0.000	-296800.0	-317123.8	0,936	Ver. OK
018	SLU STR	1	0.000	0.000	-228600.0	-317123.8	0,721	Ver. OK
019	SLU STR	1	0.000	0.000	-296100.0	-317123.8	0,934	Ver. OK
020	SLU STR	1	0.000	0.000	-227900.0	-317123.8	0,719	Ver. OK
021	SLU STR	1	0.000	0.000	-296100.0	-317123.8	0,934	Ver. OK
022	SLU STR	1	0.000	0.000	-227900.0	-317123.8	0,719	Ver. OK
023	SLU STR	1	0.000	0.000	-296800.0	-317123.8	0,936	Ver. OK
024	SLU STR	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
025	SLU STR	1	0.000	0.000	-296200.0	-317123.8	0,934	Ver. OK
026	SLU STR	1	0.000	0.000	-228000.0	-317123.8	0,719	Ver. OK
027	SLU STR	1	0.000	0.000	-296200.0	-317123.8	0,934	Ver. OK
028	SLU STR	1	0.000	0.000	-228000.0	-317123.8	0,719	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-231400.0	-317123.8	0,730	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-233400.0	-317123.8	0,736	Ver. OK



031	SLV A1 sism.	1	0.000	0.000	-221100.0	-317123.8	0,697	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-223100.0	-317123.8	0,704	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-231400.0	-317123.8	0,730	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-233400.0	-317123.8	0,736	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-221100.0	-317123.8	0,697	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-223100.0	-317123.8	0,704	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-231400.0	-317123.8	0,730	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-233400.0	-317123.8	0,736	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-221200.0	-317123.8	0,698	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-223200.0	-317123.8	0,704	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-231400.0	-317123.8	0,730	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-233400.0	-317123.8	0,736	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-221200.0	-317123.8	0,698	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-223200.0	-317123.8	0,704	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-225500.0	-317123.8	0,711	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-232200.0	-317123.8	0,732	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-222400.0	-317123.8	0,701	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-229100.0	-317123.8	0,722	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-225500.0	-317123.8	0,711	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-232200.0	-317123.8	0,732	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-222400.0	-317123.8	0,701	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-229100.0	-317123.8	0,722	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-225500.0	-317123.8	0,711	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-232200.0	-317123.8	0,732	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-222400.0	-317123.8	0,701	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-229100.0	-317123.8	0,722	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-225500.0	-317123.8	0,711	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-232100.0	-317123.8	0,732	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-222400.0	-317123.8	0,701	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-229100.0	-317123.8	0,722	Ver. OK
061	SLD sism.	1	0.000	0.000	-230500.0	-317123.8	0,727	Ver. OK
062	SLD sism.	1	0.000	0.000	-232100.0	-317123.8	0,732	Ver. OK
063	SLD sism.	1	0.000	0.000	-222500.0	-317123.8	0,702	Ver. OK
064	SLD sism.	1	0.000	0.000	-224100.0	-317123.8	0,707	Ver. OK
065	SLD sism.	1	0.000	0.000	-230500.0	-317123.8	0,727	Ver. OK
066	SLD sism.	1	0.000	0.000	-232100.0	-317123.8	0,732	Ver. OK
067	SLD sism.	1	0.000	0.000	-222500.0	-317123.8	0,702	Ver. OK
068	SLD sism.	1	0.000	0.000	-224100.0	-317123.8	0,707	Ver. OK
069	SLD sism.	1	0.000	0.000	-230500.0	-317123.8	0,727	Ver. OK
070	SLD sism.	1	0.000	0.000	-232000.0	-317123.8	0,732	Ver. OK
071	SLD sism.	1	0.000	0.000	-222500.0	-317123.8	0,702	Ver. OK
072	SLD sism.	1	0.000	0.000	-224100.0	-317123.8	0,707	Ver. OK
073	SLD sism.	1	0.000	0.000	-230500.0	-317123.8	0,727	Ver. OK
074	SLD sism.	1	0.000	0.000	-232000.0	-317123.8	0,732	Ver. OK
075	SLD sism.	1	0.000	0.000	-222500.0	-317123.8	0,702	Ver. OK
076	SLD sism.	1	0.000	0.000	-224100.0	-317123.8	0,707	Ver. OK
077	SLD sism.	1	0.000	0.000	-225900.0	-317123.8	0,712	Ver. OK
078	SLD sism.	1	0.000	0.000	-231100.0	-317123.8	0,729	Ver. OK
079	SLD sism.	1	0.000	0.000	-223500.0	-317123.8	0,705	Ver. OK
080	SLD sism.	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
081	SLD sism.	1	0.000	0.000	-225900.0	-317123.8	0,712	Ver. OK
082	SLD sism.	1	0.000	0.000	-231100.0	-317123.8	0,729	Ver. OK
083	SLD sism.	1	0.000	0.000	-223500.0	-317123.8	0,705	Ver. OK
084	SLD sism.	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
085	SLD sism.	1	0.000	0.000	-225900.0	-317123.8	0,712	Ver. OK
086	SLD sism.	1	0.000	0.000	-231100.0	-317123.8	0,729	Ver. OK
087	SLD sism.	1	0.000	0.000	-223500.0	-317123.8	0,705	Ver. OK
088	SLD sism.	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK
089	SLD sism.	1	0.000	0.000	-225900.0	-317123.8	0,712	Ver. OK
090	SLD sism.	1	0.000	0.000	-231100.0	-317123.8	0,729	Ver. OK
091	SLD sism.	1	0.000	0.000	-223500.0	-317123.8	0,705	Ver. OK
092	SLD sism.	1	0.000	0.000	-228700.0	-317123.8	0,721	Ver. OK

Situazione più gravosa in cmb n. 1

Elemento: 282 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$



INTERNAL CODE

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Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb. n.	Tipo	Palo n.	coord.X cm	coord.Y cm	N daN	N lim daN	Ver.N	Stato
001	SLU STR	1	0.000	0.000	-255300.0	-317123.8	0,805	Ver. OK
002	SLU STR	1	0.000	0.000	-196700.0	-317123.8	0,620	Ver. OK
003	SLU STR	1	0.000	0.000	-254600.0	-317123.8	0,803	Ver. OK
004	SLU STR	1	0.000	0.000	-196000.0	-317123.8	0,618	Ver. OK
005	SLU STR	1	0.000	0.000	-255300.0	-317123.8	0,805	Ver. OK
006	SLU STR	1	0.000	0.000	-196700.0	-317123.8	0,620	Ver. OK
007	SLU STR	1	0.000	0.000	-254600.0	-317123.8	0,803	Ver. OK
008	SLU STR	1	0.000	0.000	-196000.0	-317123.8	0,618	Ver. OK
009	SLU STR	1	0.000	0.000	-254600.0	-317123.8	0,803	Ver. OK
010	SLU STR	1	0.000	0.000	-196000.0	-317123.8	0,618	Ver. OK
011	SLU STR	1	0.000	0.000	-255300.0	-317123.8	0,805	Ver. OK
012	SLU STR	1	0.000	0.000	-196700.0	-317123.8	0,620	Ver. OK
013	SLU STR	1	0.000	0.000	-254700.0	-317123.8	0,803	Ver. OK
014	SLU STR	1	0.000	0.000	-196100.0	-317123.8	0,618	Ver. OK
015	SLU STR	1	0.000	0.000	-254700.0	-317123.8	0,803	Ver. OK
016	SLU STR	1	0.000	0.000	-196100.0	-317123.8	0,618	Ver. OK
017	SLU STR	1	0.000	0.000	-255300.0	-317123.8	0,805	Ver. OK
018	SLU STR	1	0.000	0.000	-196700.0	-317123.8	0,620	Ver. OK
019	SLU STR	1	0.000	0.000	-254600.0	-317123.8	0,803	Ver. OK
020	SLU STR	1	0.000	0.000	-196000.0	-317123.8	0,618	Ver. OK
021	SLU STR	1	0.000	0.000	-254600.0	-317123.8	0,803	Ver. OK
022	SLU STR	1	0.000	0.000	-196000.0	-317123.8	0,618	Ver. OK
023	SLU STR	1	0.000	0.000	-255300.0	-317123.8	0,805	Ver. OK
024	SLU STR	1	0.000	0.000	-196700.0	-317123.8	0,620	Ver. OK
025	SLU STR	1	0.000	0.000	-254700.0	-317123.8	0,803	Ver. OK
026	SLU STR	1	0.000	0.000	-196100.0	-317123.8	0,618	Ver. OK
027	SLU STR	1	0.000	0.000	-254700.0	-317123.8	0,803	Ver. OK
028	SLU STR	1	0.000	0.000	-196100.0	-317123.8	0,618	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-197200.0	-317123.8	0,622	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-200300.0	-317123.8	0,632	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-190400.0	-317123.8	0,600	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-193500.0	-317123.8	0,610	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-197200.0	-317123.8	0,622	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-200300.0	-317123.8	0,632	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-190400.0	-317123.8	0,600	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-193500.0	-317123.8	0,610	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-197200.0	-317123.8	0,622	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-200300.0	-317123.8	0,632	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-190400.0	-317123.8	0,600	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-193500.0	-317123.8	0,610	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-197200.0	-317123.8	0,622	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-200300.0	-317123.8	0,632	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-190500.0	-317123.8	0,601	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-193500.0	-317123.8	0,610	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-191200.0	-317123.8	0,603	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-201500.0	-317123.8	0,635	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-189200.0	-317123.8	0,597	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-199500.0	-317123.8	0,629	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-191200.0	-317123.8	0,603	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-201500.0	-317123.8	0,635	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-189200.0	-317123.8	0,597	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-199500.0	-317123.8	0,629	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-191300.0	-317123.8	0,603	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-201500.0	-317123.8	0,635	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-189200.0	-317123.8	0,597	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-199500.0	-317123.8	0,629	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-191200.0	-317123.8	0,603	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-201500.0	-317123.8	0,635	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-189200.0	-317123.8	0,597	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-199500.0	-317123.8	0,629	Ver. OK
061	SLD sism.	1	0.000	0.000	-196800.0	-317123.8	0,621	Ver. OK
062	SLD sism.	1	0.000	0.000	-199200.0	-317123.8	0,628	Ver. OK
063	SLD sism.	1	0.000	0.000	-191500.0	-317123.8	0,604	Ver. OK
064	SLD sism.	1	0.000	0.000	-193900.0	-317123.8	0,611	Ver. OK
065	SLD sism.	1	0.000	0.000	-196800.0	-317123.8	0,621	Ver. OK



066	SLD sism.	1	0.000	0.000	-199200.0	-317123.8	0,628	Ver. OK
067	SLD sism.	1	0.000	0.000	-191500.0	-317123.8	0,604	Ver. OK
068	SLD sism.	1	0.000	0.000	-193900.0	-317123.8	0,611	Ver. OK
069	SLD sism.	1	0.000	0.000	-196800.0	-317123.8	0,621	Ver. OK
070	SLD sism.	1	0.000	0.000	-199200.0	-317123.8	0,628	Ver. OK
071	SLD sism.	1	0.000	0.000	-191500.0	-317123.8	0,604	Ver. OK
072	SLD sism.	1	0.000	0.000	-193900.0	-317123.8	0,611	Ver. OK
073	SLD sism.	1	0.000	0.000	-196800.0	-317123.8	0,621	Ver. OK
074	SLD sism.	1	0.000	0.000	-199200.0	-317123.8	0,628	Ver. OK
075	SLD sism.	1	0.000	0.000	-191500.0	-317123.8	0,604	Ver. OK
076	SLD sism.	1	0.000	0.000	-193900.0	-317123.8	0,611	Ver. OK
077	SLD sism.	1	0.000	0.000	-192200.0	-317123.8	0,606	Ver. OK
078	SLD sism.	1	0.000	0.000	-200200.0	-317123.8	0,631	Ver. OK
079	SLD sism.	1	0.000	0.000	-190600.0	-317123.8	0,601	Ver. OK
080	SLD sism.	1	0.000	0.000	-198600.0	-317123.8	0,626	Ver. OK
081	SLD sism.	1	0.000	0.000	-192100.0	-317123.8	0,606	Ver. OK
082	SLD sism.	1	0.000	0.000	-200200.0	-317123.8	0,631	Ver. OK
083	SLD sism.	1	0.000	0.000	-190600.0	-317123.8	0,601	Ver. OK
084	SLD sism.	1	0.000	0.000	-198600.0	-317123.8	0,626	Ver. OK
085	SLD sism.	1	0.000	0.000	-192200.0	-317123.8	0,606	Ver. OK
086	SLD sism.	1	0.000	0.000	-200100.0	-317123.8	0,631	Ver. OK
087	SLD sism.	1	0.000	0.000	-190600.0	-317123.8	0,601	Ver. OK
088	SLD sism.	1	0.000	0.000	-198600.0	-317123.8	0,626	Ver. OK
089	SLD sism.	1	0.000	0.000	-192200.0	-317123.8	0,606	Ver. OK
090	SLD sism.	1	0.000	0.000	-200100.0	-317123.8	0,631	Ver. OK
091	SLD sism.	1	0.000	0.000	-190600.0	-317123.8	0,601	Ver. OK
092	SLD sism.	1	0.000	0.000	-198600.0	-317123.8	0,626	Ver. OK

Situazione più gravosa in cmb n. 1

Elemento: 283 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-205000.0	-317123.8	0,646	Ver. OK
002	SLU STR	1	0.000	0.000	-158000.0	-317123.8	0,498	Ver. OK
003	SLU STR	1	0.000	0.000	-204400.0	-317123.8	0,645	Ver. OK
004	SLU STR	1	0.000	0.000	-157400.0	-317123.8	0,496	Ver. OK
005	SLU STR	1	0.000	0.000	-205000.0	-317123.8	0,646	Ver. OK
006	SLU STR	1	0.000	0.000	-158000.0	-317123.8	0,498	Ver. OK
007	SLU STR	1	0.000	0.000	-204300.0	-317123.8	0,644	Ver. OK
008	SLU STR	1	0.000	0.000	-157300.0	-317123.8	0,496	Ver. OK
009	SLU STR	1	0.000	0.000	-204300.0	-317123.8	0,644	Ver. OK
010	SLU STR	1	0.000	0.000	-157300.0	-317123.8	0,496	Ver. OK
011	SLU STR	1	0.000	0.000	-205100.0	-317123.8	0,647	Ver. OK
012	SLU STR	1	0.000	0.000	-158100.0	-317123.8	0,499	Ver. OK
013	SLU STR	1	0.000	0.000	-204400.0	-317123.8	0,645	Ver. OK
014	SLU STR	1	0.000	0.000	-157400.0	-317123.8	0,496	Ver. OK
015	SLU STR	1	0.000	0.000	-204400.0	-317123.8	0,645	Ver. OK
016	SLU STR	1	0.000	0.000	-157400.0	-317123.8	0,496	Ver. OK
017	SLU STR	1	0.000	0.000	-205000.0	-317123.8	0,646	Ver. OK
018	SLU STR	1	0.000	0.000	-158000.0	-317123.8	0,498	Ver. OK
019	SLU STR	1	0.000	0.000	-204300.0	-317123.8	0,644	Ver. OK
020	SLU STR	1	0.000	0.000	-157300.0	-317123.8	0,496	Ver. OK
021	SLU STR	1	0.000	0.000	-204300.0	-317123.8	0,644	Ver. OK
022	SLU STR	1	0.000	0.000	-157300.0	-317123.8	0,496	Ver. OK
023	SLU STR	1	0.000	0.000	-205100.0	-317123.8	0,647	Ver. OK
024	SLU STR	1	0.000	0.000	-158100.0	-317123.8	0,499	Ver. OK
025	SLU STR	1	0.000	0.000	-204400.0	-317123.8	0,645	Ver. OK
026	SLU STR	1	0.000	0.000	-157400.0	-317123.8	0,496	Ver. OK
027	SLU STR	1	0.000	0.000	-204400.0	-317123.8	0,645	Ver. OK
028	SLU STR	1	0.000	0.000	-157400.0	-317123.8	0,496	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-156100.0	-317123.8	0,492	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-159700.0	-317123.8	0,504	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-153700.0	-317123.8	0,485	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-157200.0	-317123.8	0,496	Ver. OK



033	SLV A1 sism.	1	0.000	0.000	-156200.0	-317123.8	0,493	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-159700.0	-317123.8	0,504	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-153700.0	-317123.8	0,485	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-157200.0	-317123.8	0,496	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-156100.0	-317123.8	0,492	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-159700.0	-317123.8	0,504	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-153700.0	-317123.8	0,485	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-157200.0	-317123.8	0,496	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-156100.0	-317123.8	0,492	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-159700.0	-317123.8	0,504	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-153700.0	-317123.8	0,485	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-157200.0	-317123.8	0,496	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-151100.0	-317123.8	0,476	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-163000.0	-317123.8	0,514	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-150400.0	-317123.8	0,474	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-162300.0	-317123.8	0,512	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-151100.0	-317123.8	0,476	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-163000.0	-317123.8	0,514	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-150400.0	-317123.8	0,474	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-162300.0	-317123.8	0,512	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-151100.0	-317123.8	0,476	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-163000.0	-317123.8	0,514	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-150400.0	-317123.8	0,474	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-162300.0	-317123.8	0,512	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-151100.0	-317123.8	0,476	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-163000.0	-317123.8	0,514	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-150400.0	-317123.8	0,474	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-162300.0	-317123.8	0,512	Ver. OK
061	SLD sism.	1	0.000	0.000	-156300.0	-317123.8	0,493	Ver. OK
062	SLD sism.	1	0.000	0.000	-159000.0	-317123.8	0,501	Ver. OK
063	SLD sism.	1	0.000	0.000	-154300.0	-317123.8	0,487	Ver. OK
064	SLD sism.	1	0.000	0.000	-157100.0	-317123.8	0,495	Ver. OK
065	SLD sism.	1	0.000	0.000	-156300.0	-317123.8	0,493	Ver. OK
066	SLD sism.	1	0.000	0.000	-159000.0	-317123.8	0,501	Ver. OK
067	SLD sism.	1	0.000	0.000	-154300.0	-317123.8	0,487	Ver. OK
068	SLD sism.	1	0.000	0.000	-157100.0	-317123.8	0,495	Ver. OK
069	SLD sism.	1	0.000	0.000	-156300.0	-317123.8	0,493	Ver. OK
070	SLD sism.	1	0.000	0.000	-159000.0	-317123.8	0,501	Ver. OK
071	SLD sism.	1	0.000	0.000	-154300.0	-317123.8	0,487	Ver. OK
072	SLD sism.	1	0.000	0.000	-157100.0	-317123.8	0,495	Ver. OK
073	SLD sism.	1	0.000	0.000	-156300.0	-317123.8	0,493	Ver. OK
074	SLD sism.	1	0.000	0.000	-159000.0	-317123.8	0,501	Ver. OK
075	SLD sism.	1	0.000	0.000	-154300.0	-317123.8	0,487	Ver. OK
076	SLD sism.	1	0.000	0.000	-157100.0	-317123.8	0,495	Ver. OK
077	SLD sism.	1	0.000	0.000	-152300.0	-317123.8	0,480	Ver. OK
078	SLD sism.	1	0.000	0.000	-161600.0	-317123.8	0,510	Ver. OK
079	SLD sism.	1	0.000	0.000	-151800.0	-317123.8	0,479	Ver. OK
080	SLD sism.	1	0.000	0.000	-161000.0	-317123.8	0,508	Ver. OK
081	SLD sism.	1	0.000	0.000	-152300.0	-317123.8	0,480	Ver. OK
082	SLD sism.	1	0.000	0.000	-161600.0	-317123.8	0,510	Ver. OK
083	SLD sism.	1	0.000	0.000	-151800.0	-317123.8	0,479	Ver. OK
084	SLD sism.	1	0.000	0.000	-161000.0	-317123.8	0,508	Ver. OK
085	SLD sism.	1	0.000	0.000	-152400.0	-317123.8	0,481	Ver. OK
086	SLD sism.	1	0.000	0.000	-161600.0	-317123.8	0,510	Ver. OK
087	SLD sism.	1	0.000	0.000	-151800.0	-317123.8	0,479	Ver. OK
088	SLD sism.	1	0.000	0.000	-161000.0	-317123.8	0,508	Ver. OK
089	SLD sism.	1	0.000	0.000	-152400.0	-317123.8	0,481	Ver. OK
090	SLD sism.	1	0.000	0.000	-161600.0	-317123.8	0,510	Ver. OK
091	SLD sism.	1	0.000	0.000	-151800.0	-317123.8	0,479	Ver. OK
092	SLD sism.	1	0.000	0.000	-161000.0	-317123.8	0,508	Ver. OK

Situazione più gravosa in cmb n. 11

Elemento: 330 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
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INTERNAL CODE

C23FSTR002WR02300

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n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-79570.0	-317123.8	0,251	Ver. OK
002	SLU STR	1	0.000	0.000	-61510.0	-317123.8	0,194	Ver. OK
003	SLU STR	1	0.000	0.000	-78890.0	-317123.8	0,249	Ver. OK
004	SLU STR	1	0.000	0.000	-60840.0	-317123.8	0,192	Ver. OK
005	SLU STR	1	0.000	0.000	-79520.0	-317123.8	0,251	Ver. OK
006	SLU STR	1	0.000	0.000	-61470.0	-317123.8	0,194	Ver. OK
007	SLU STR	1	0.000	0.000	-78820.0	-317123.8	0,249	Ver. OK
008	SLU STR	1	0.000	0.000	-60770.0	-317123.8	0,192	Ver. OK
009	SLU STR	1	0.000	0.000	-78850.0	-317123.8	0,249	Ver. OK
010	SLU STR	1	0.000	0.000	-60800.0	-317123.8	0,192	Ver. OK
011	SLU STR	1	0.000	0.000	-79610.0	-317123.8	0,251	Ver. OK
012	SLU STR	1	0.000	0.000	-61560.0	-317123.8	0,194	Ver. OK
013	SLU STR	1	0.000	0.000	-78940.0	-317123.8	0,249	Ver. OK
014	SLU STR	1	0.000	0.000	-60890.0	-317123.8	0,192	Ver. OK
015	SLU STR	1	0.000	0.000	-78970.0	-317123.8	0,249	Ver. OK
016	SLU STR	1	0.000	0.000	-60910.0	-317123.8	0,192	Ver. OK
017	SLU STR	1	0.000	0.000	-79520.0	-317123.8	0,251	Ver. OK
018	SLU STR	1	0.000	0.000	-61470.0	-317123.8	0,194	Ver. OK
019	SLU STR	1	0.000	0.000	-78850.0	-317123.8	0,249	Ver. OK
020	SLU STR	1	0.000	0.000	-60800.0	-317123.8	0,192	Ver. OK
021	SLU STR	1	0.000	0.000	-78820.0	-317123.8	0,249	Ver. OK
022	SLU STR	1	0.000	0.000	-60770.0	-317123.8	0,192	Ver. OK
023	SLU STR	1	0.000	0.000	-79610.0	-317123.8	0,251	Ver. OK
024	SLU STR	1	0.000	0.000	-61560.0	-317123.8	0,194	Ver. OK
025	SLU STR	1	0.000	0.000	-78940.0	-317123.8	0,249	Ver. OK
026	SLU STR	1	0.000	0.000	-60890.0	-317123.8	0,192	Ver. OK
027	SLU STR	1	0.000	0.000	-78970.0	-317123.8	0,249	Ver. OK
028	SLU STR	1	0.000	0.000	-60910.0	-317123.8	0,192	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-54910.0	-317123.8	0,173	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-57750.0	-317123.8	0,182	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-62600.0	-317123.8	0,197	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-65440.0	-317123.8	0,206	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-54900.0	-317123.8	0,173	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-57750.0	-317123.8	0,182	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-62590.0	-317123.8	0,197	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-65450.0	-317123.8	0,206	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-54930.0	-317123.8	0,173	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-57770.0	-317123.8	0,182	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-62570.0	-317123.8	0,197	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-65410.0	-317123.8	0,206	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-54920.0	-317123.8	0,173	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-57780.0	-317123.8	0,182	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-62560.0	-317123.8	0,197	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-65420.0	-317123.8	0,206	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-54280.0	-317123.8	0,171	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-63750.0	-317123.8	0,201	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-56590.0	-317123.8	0,178	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-66060.0	-317123.8	0,208	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-54290.0	-317123.8	0,171	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-63760.0	-317123.8	0,201	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-56580.0	-317123.8	0,178	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-66050.0	-317123.8	0,208	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-54250.0	-317123.8	0,171	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-63780.0	-317123.8	0,201	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-56560.0	-317123.8	0,178	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-66090.0	-317123.8	0,208	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-54260.0	-317123.8	0,171	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-63790.0	-317123.8	0,201	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-56550.0	-317123.8	0,178	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-66080.0	-317123.8	0,208	Ver. OK
061	SLD sism.	1	0.000	0.000	-56080.0	-317123.8	0,177	Ver. OK
062	SLD sism.	1	0.000	0.000	-58290.0	-317123.8	0,184	Ver. OK
063	SLD sism.	1	0.000	0.000	-62060.0	-317123.8	0,196	Ver. OK
064	SLD sism.	1	0.000	0.000	-64260.0	-317123.8	0,203	Ver. OK
065	SLD sism.	1	0.000	0.000	-56070.0	-317123.8	0,177	Ver. OK
066	SLD sism.	1	0.000	0.000	-58290.0	-317123.8	0,184	Ver. OK
067	SLD sism.	1	0.000	0.000	-62050.0	-317123.8	0,196	Ver. OK



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068	SLD sism.	1	0.000	0.000	-64270.0	-317123.8	0,203	Ver. OK
069	SLD sism.	1	0.000	0.000	-56100.0	-317123.8	0,177	Ver. OK
070	SLD sism.	1	0.000	0.000	-58310.0	-317123.8	0,184	Ver. OK
071	SLD sism.	1	0.000	0.000	-62040.0	-317123.8	0,196	Ver. OK
072	SLD sism.	1	0.000	0.000	-64240.0	-317123.8	0,203	Ver. OK
073	SLD sism.	1	0.000	0.000	-56090.0	-317123.8	0,177	Ver. OK
074	SLD sism.	1	0.000	0.000	-58310.0	-317123.8	0,184	Ver. OK
075	SLD sism.	1	0.000	0.000	-62030.0	-317123.8	0,196	Ver. OK
076	SLD sism.	1	0.000	0.000	-64250.0	-317123.8	0,203	Ver. OK
077	SLD sism.	1	0.000	0.000	-55590.0	-317123.8	0,175	Ver. OK
078	SLD sism.	1	0.000	0.000	-62950.0	-317123.8	0,199	Ver. OK
079	SLD sism.	1	0.000	0.000	-57390.0	-317123.8	0,181	Ver. OK
080	SLD sism.	1	0.000	0.000	-64750.0	-317123.8	0,204	Ver. OK
081	SLD sism.	1	0.000	0.000	-55600.0	-317123.8	0,175	Ver. OK
082	SLD sism.	1	0.000	0.000	-62960.0	-317123.8	0,199	Ver. OK
083	SLD sism.	1	0.000	0.000	-57380.0	-317123.8	0,181	Ver. OK
084	SLD sism.	1	0.000	0.000	-64740.0	-317123.8	0,204	Ver. OK
085	SLD sism.	1	0.000	0.000	-55570.0	-317123.8	0,175	Ver. OK
086	SLD sism.	1	0.000	0.000	-62980.0	-317123.8	0,199	Ver. OK
087	SLD sism.	1	0.000	0.000	-57370.0	-317123.8	0,181	Ver. OK
088	SLD sism.	1	0.000	0.000	-64770.0	-317123.8	0,204	Ver. OK
089	SLD sism.	1	0.000	0.000	-55580.0	-317123.8	0,175	Ver. OK
090	SLD sism.	1	0.000	0.000	-62980.0	-317123.8	0,199	Ver. OK
091	SLD sism.	1	0.000	0.000	-57360.0	-317123.8	0,181	Ver. OK
092	SLD sism.	1	0.000	0.000	-64760.0	-317123.8	0,204	Ver. OK

Situazione più gravosa in cmb n. 11

Elemento: 348 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-143900.0	-317123.8	0,454	Ver. OK
002	SLU STR	1	0.000	0.000	-111000.0	-317123.8	0,350	Ver. OK
003	SLU STR	1	0.000	0.000	-143200.0	-317123.8	0,452	Ver. OK
004	SLU STR	1	0.000	0.000	-110300.0	-317123.8	0,348	Ver. OK
005	SLU STR	1	0.000	0.000	-143800.0	-317123.8	0,453	Ver. OK
006	SLU STR	1	0.000	0.000	-110900.0	-317123.8	0,350	Ver. OK
007	SLU STR	1	0.000	0.000	-143100.0	-317123.8	0,451	Ver. OK
008	SLU STR	1	0.000	0.000	-110200.0	-317123.8	0,347	Ver. OK
009	SLU STR	1	0.000	0.000	-143200.0	-317123.8	0,452	Ver. OK
010	SLU STR	1	0.000	0.000	-110300.0	-317123.8	0,348	Ver. OK
011	SLU STR	1	0.000	0.000	-143900.0	-317123.8	0,454	Ver. OK
012	SLU STR	1	0.000	0.000	-111000.0	-317123.8	0,350	Ver. OK
013	SLU STR	1	0.000	0.000	-143200.0	-317123.8	0,452	Ver. OK
014	SLU STR	1	0.000	0.000	-110400.0	-317123.8	0,348	Ver. OK
015	SLU STR	1	0.000	0.000	-143300.0	-317123.8	0,452	Ver. OK
016	SLU STR	1	0.000	0.000	-110400.0	-317123.8	0,348	Ver. OK
017	SLU STR	1	0.000	0.000	-143800.0	-317123.8	0,453	Ver. OK
018	SLU STR	1	0.000	0.000	-110900.0	-317123.8	0,350	Ver. OK
019	SLU STR	1	0.000	0.000	-143200.0	-317123.8	0,452	Ver. OK
020	SLU STR	1	0.000	0.000	-110300.0	-317123.8	0,348	Ver. OK
021	SLU STR	1	0.000	0.000	-143100.0	-317123.8	0,451	Ver. OK
022	SLU STR	1	0.000	0.000	-110200.0	-317123.8	0,347	Ver. OK
023	SLU STR	1	0.000	0.000	-143900.0	-317123.8	0,454	Ver. OK
024	SLU STR	1	0.000	0.000	-111000.0	-317123.8	0,350	Ver. OK
025	SLU STR	1	0.000	0.000	-143200.0	-317123.8	0,452	Ver. OK
026	SLU STR	1	0.000	0.000	-110400.0	-317123.8	0,348	Ver. OK
027	SLU STR	1	0.000	0.000	-143300.0	-317123.8	0,452	Ver. OK
028	SLU STR	1	0.000	0.000	-110400.0	-317123.8	0,348	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-106600.0	-317123.8	0,336	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-110200.0	-317123.8	0,347	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-109100.0	-317123.8	0,344	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-112700.0	-317123.8	0,355	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-106600.0	-317123.8	0,336	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-110200.0	-317123.8	0,347	Ver. OK



035	SLV A1 sism.	1	0.000	0.000	-109100.0	-317123.8	0,344	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-112700.0	-317123.8	0,355	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-106600.0	-317123.8	0,336	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-110200.0	-317123.8	0,347	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-109100.0	-317123.8	0,344	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-112700.0	-317123.8	0,355	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-106600.0	-317123.8	0,336	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-110200.0	-317123.8	0,347	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-109100.0	-317123.8	0,344	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-112700.0	-317123.8	0,355	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-103200.0	-317123.8	0,325	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-115300.0	-317123.8	0,364	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-104000.0	-317123.8	0,328	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-116000.0	-317123.8	0,366	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-103200.0	-317123.8	0,325	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-115300.0	-317123.8	0,364	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-104000.0	-317123.8	0,328	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-116000.0	-317123.8	0,366	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-103200.0	-317123.8	0,325	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-115300.0	-317123.8	0,364	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-104000.0	-317123.8	0,328	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-116100.0	-317123.8	0,366	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-103200.0	-317123.8	0,325	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-115300.0	-317123.8	0,364	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-104000.0	-317123.8	0,328	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-116000.0	-317123.8	0,366	Ver. OK
061	SLD sism.	1	0.000	0.000	-107300.0	-317123.8	0,338	Ver. OK
062	SLD sism.	1	0.000	0.000	-110100.0	-317123.8	0,347	Ver. OK
063	SLD sism.	1	0.000	0.000	-109200.0	-317123.8	0,344	Ver. OK
064	SLD sism.	1	0.000	0.000	-112000.0	-317123.8	0,353	Ver. OK
065	SLD sism.	1	0.000	0.000	-107300.0	-317123.8	0,338	Ver. OK
066	SLD sism.	1	0.000	0.000	-110100.0	-317123.8	0,347	Ver. OK
067	SLD sism.	1	0.000	0.000	-109200.0	-317123.8	0,344	Ver. OK
068	SLD sism.	1	0.000	0.000	-112000.0	-317123.8	0,353	Ver. OK
069	SLD sism.	1	0.000	0.000	-107300.0	-317123.8	0,338	Ver. OK
070	SLD sism.	1	0.000	0.000	-110100.0	-317123.8	0,347	Ver. OK
071	SLD sism.	1	0.000	0.000	-109200.0	-317123.8	0,344	Ver. OK
072	SLD sism.	1	0.000	0.000	-112000.0	-317123.8	0,353	Ver. OK
073	SLD sism.	1	0.000	0.000	-107300.0	-317123.8	0,338	Ver. OK
074	SLD sism.	1	0.000	0.000	-110100.0	-317123.8	0,347	Ver. OK
075	SLD sism.	1	0.000	0.000	-109200.0	-317123.8	0,344	Ver. OK
076	SLD sism.	1	0.000	0.000	-112000.0	-317123.8	0,353	Ver. OK
077	SLD sism.	1	0.000	0.000	-104700.0	-317123.8	0,330	Ver. OK
078	SLD sism.	1	0.000	0.000	-114000.0	-317123.8	0,359	Ver. OK
079	SLD sism.	1	0.000	0.000	-105300.0	-317123.8	0,332	Ver. OK
080	SLD sism.	1	0.000	0.000	-114600.0	-317123.8	0,361	Ver. OK
081	SLD sism.	1	0.000	0.000	-104700.0	-317123.8	0,330	Ver. OK
082	SLD sism.	1	0.000	0.000	-114000.0	-317123.8	0,359	Ver. OK
083	SLD sism.	1	0.000	0.000	-105300.0	-317123.8	0,332	Ver. OK
084	SLD sism.	1	0.000	0.000	-114600.0	-317123.8	0,361	Ver. OK
085	SLD sism.	1	0.000	0.000	-104700.0	-317123.8	0,330	Ver. OK
086	SLD sism.	1	0.000	0.000	-114000.0	-317123.8	0,359	Ver. OK
087	SLD sism.	1	0.000	0.000	-105300.0	-317123.8	0,332	Ver. OK
088	SLD sism.	1	0.000	0.000	-114600.0	-317123.8	0,361	Ver. OK
089	SLD sism.	1	0.000	0.000	-104700.0	-317123.8	0,330	Ver. OK
090	SLD sism.	1	0.000	0.000	-114000.0	-317123.8	0,359	Ver. OK
091	SLD sism.	1	0.000	0.000	-105300.0	-317123.8	0,332	Ver. OK
092	SLD sism.	1	0.000	0.000	-114600.0	-317123.8	0,361	Ver. OK

Situazione più gravosa in cmb n. 1

Elemento: 395 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-20320.0	-317123.8	0,064	Ver. OK



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002	SLU STR	1	0.000	0.000	-15950.0	-317123.8	0,050	Ver. OK
003	SLU STR	1	0.000	0.000	-19650.0	-317123.8	0,062	Ver. OK
004	SLU STR	1	0.000	0.000	-15270.0	-317123.8	0,048	Ver. OK
005	SLU STR	1	0.000	0.000	-20280.0	-317123.8	0,064	Ver. OK
006	SLU STR	1	0.000	0.000	-15900.0	-317123.8	0,050	Ver. OK
007	SLU STR	1	0.000	0.000	-19580.0	-317123.8	0,062	Ver. OK
008	SLU STR	1	0.000	0.000	-15200.0	-317123.8	0,048	Ver. OK
009	SLU STR	1	0.000	0.000	-19610.0	-317123.8	0,062	Ver. OK
010	SLU STR	1	0.000	0.000	-15230.0	-317123.8	0,048	Ver. OK
011	SLU STR	1	0.000	0.000	-20370.0	-317123.8	0,064	Ver. OK
012	SLU STR	1	0.000	0.000	-15990.0	-317123.8	0,050	Ver. OK
013	SLU STR	1	0.000	0.000	-19690.0	-317123.8	0,062	Ver. OK
014	SLU STR	1	0.000	0.000	-15310.0	-317123.8	0,048	Ver. OK
015	SLU STR	1	0.000	0.000	-19720.0	-317123.8	0,062	Ver. OK
016	SLU STR	1	0.000	0.000	-15340.0	-317123.8	0,048	Ver. OK
017	SLU STR	1	0.000	0.000	-20280.0	-317123.8	0,064	Ver. OK
018	SLU STR	1	0.000	0.000	-15900.0	-317123.8	0,050	Ver. OK
019	SLU STR	1	0.000	0.000	-19610.0	-317123.8	0,062	Ver. OK
020	SLU STR	1	0.000	0.000	-15230.0	-317123.8	0,048	Ver. OK
021	SLU STR	1	0.000	0.000	-19580.0	-317123.8	0,062	Ver. OK
022	SLU STR	1	0.000	0.000	-15200.0	-317123.8	0,048	Ver. OK
023	SLU STR	1	0.000	0.000	-20370.0	-317123.8	0,064	Ver. OK
024	SLU STR	1	0.000	0.000	-15990.0	-317123.8	0,050	Ver. OK
025	SLU STR	1	0.000	0.000	-19690.0	-317123.8	0,062	Ver. OK
026	SLU STR	1	0.000	0.000	-15310.0	-317123.8	0,048	Ver. OK
027	SLU STR	1	0.000	0.000	-19720.0	-317123.8	0,062	Ver. OK
028	SLU STR	1	0.000	0.000	-15340.0	-317123.8	0,048	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-8305.2	-317123.8	0,026	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-8651.7	-317123.8	0,027	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-20550.0	-317123.8	0,065	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-20890.0	-317123.8	0,066	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-8303.7	-317123.8	0,026	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-8653.2	-317123.8	0,027	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-20540.0	-317123.8	0,065	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-20890.0	-317123.8	0,066	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-8310.3	-317123.8	0,026	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-8656.9	-317123.8	0,027	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-20540.0	-317123.8	0,065	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-20890.0	-317123.8	0,066	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-8308.9	-317123.8	0,026	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-8658.3	-317123.8	0,027	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-20540.0	-317123.8	0,065	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-20890.0	-317123.8	0,066	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-12180.0	-317123.8	0,038	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-13340.0	-317123.8	0,042	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-15860.0	-317123.8	0,050	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-17010.0	-317123.8	0,054	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-12190.0	-317123.8	0,038	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-13340.0	-317123.8	0,042	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-15860.0	-317123.8	0,050	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-17010.0	-317123.8	0,054	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-12180.0	-317123.8	0,038	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-13340.0	-317123.8	0,042	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-15850.0	-317123.8	0,050	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-17020.0	-317123.8	0,054	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-12180.0	-317123.8	0,038	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-13350.0	-317123.8	0,042	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-15850.0	-317123.8	0,050	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-17020.0	-317123.8	0,054	Ver. OK
061	SLD sism.	1	0.000	0.000	-9707.4	-317123.8	0,031	Ver. OK
062	SLD sism.	1	0.000	0.000	-9976.7	-317123.8	0,031	Ver. OK
063	SLD sism.	1	0.000	0.000	-19220.0	-317123.8	0,061	Ver. OK
064	SLD sism.	1	0.000	0.000	-19490.0	-317123.8	0,061	Ver. OK
065	SLD sism.	1	0.000	0.000	-9706.2	-317123.8	0,031	Ver. OK
066	SLD sism.	1	0.000	0.000	-9977.8	-317123.8	0,031	Ver. OK
067	SLD sism.	1	0.000	0.000	-19220.0	-317123.8	0,061	Ver. OK
068	SLD sism.	1	0.000	0.000	-19490.0	-317123.8	0,061	Ver. OK
069	SLD sism.	1	0.000	0.000	-9711.3	-317123.8	0,031	Ver. OK



070	SLD sism.	1	0.000	0.000	-9980.7	-317123.8	0,031	Ver. OK
071	SLD sism.	1	0.000	0.000	-19220.0	-317123.8	0,061	Ver. OK
072	SLD sism.	1	0.000	0.000	-19490.0	-317123.8	0,061	Ver. OK
073	SLD sism.	1	0.000	0.000	-9710.2	-317123.8	0,031	Ver. OK
074	SLD sism.	1	0.000	0.000	-9981.8	-317123.8	0,031	Ver. OK
075	SLD sism.	1	0.000	0.000	-19220.0	-317123.8	0,061	Ver. OK
076	SLD sism.	1	0.000	0.000	-19490.0	-317123.8	0,061	Ver. OK
077	SLD sism.	1	0.000	0.000	-12720.0	-317123.8	0,040	Ver. OK
078	SLD sism.	1	0.000	0.000	-13620.0	-317123.8	0,043	Ver. OK
079	SLD sism.	1	0.000	0.000	-15580.0	-317123.8	0,049	Ver. OK
080	SLD sism.	1	0.000	0.000	-16470.0	-317123.8	0,052	Ver. OK
081	SLD sism.	1	0.000	0.000	-12720.0	-317123.8	0,040	Ver. OK
082	SLD sism.	1	0.000	0.000	-13620.0	-317123.8	0,043	Ver. OK
083	SLD sism.	1	0.000	0.000	-15580.0	-317123.8	0,049	Ver. OK
084	SLD sism.	1	0.000	0.000	-16470.0	-317123.8	0,052	Ver. OK
085	SLD sism.	1	0.000	0.000	-12720.0	-317123.8	0,040	Ver. OK
086	SLD sism.	1	0.000	0.000	-13620.0	-317123.8	0,043	Ver. OK
087	SLD sism.	1	0.000	0.000	-15570.0	-317123.8	0,049	Ver. OK
088	SLD sism.	1	0.000	0.000	-16480.0	-317123.8	0,052	Ver. OK
089	SLD sism.	1	0.000	0.000	-12720.0	-317123.8	0,040	Ver. OK
090	SLD sism.	1	0.000	0.000	-13630.0	-317123.8	0,043	Ver. OK
091	SLD sism.	1	0.000	0.000	-15570.0	-317123.8	0,049	Ver. OK
092	SLD sism.	1	0.000	0.000	-16480.0	-317123.8	0,052	Ver. OK

Situazione più gravosa in cmb n. 32

Elemento: 413 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-38050.0	-317123.8	0,120	Ver. OK
002	SLU STR	1	0.000	0.000	-29580.0	-317123.8	0,093	Ver. OK
003	SLU STR	1	0.000	0.000	-37380.0	-317123.8	0,118	Ver. OK
004	SLU STR	1	0.000	0.000	-28910.0	-317123.8	0,091	Ver. OK
005	SLU STR	1	0.000	0.000	-38010.0	-317123.8	0,120	Ver. OK
006	SLU STR	1	0.000	0.000	-29540.0	-317123.8	0,093	Ver. OK
007	SLU STR	1	0.000	0.000	-37310.0	-317123.8	0,118	Ver. OK
008	SLU STR	1	0.000	0.000	-28840.0	-317123.8	0,091	Ver. OK
009	SLU STR	1	0.000	0.000	-37340.0	-317123.8	0,118	Ver. OK
010	SLU STR	1	0.000	0.000	-28870.0	-317123.8	0,091	Ver. OK
011	SLU STR	1	0.000	0.000	-38100.0	-317123.8	0,120	Ver. OK
012	SLU STR	1	0.000	0.000	-29630.0	-317123.8	0,093	Ver. OK
013	SLU STR	1	0.000	0.000	-37430.0	-317123.8	0,118	Ver. OK
014	SLU STR	1	0.000	0.000	-28950.0	-317123.8	0,091	Ver. OK
015	SLU STR	1	0.000	0.000	-37450.0	-317123.8	0,118	Ver. OK
016	SLU STR	1	0.000	0.000	-28980.0	-317123.8	0,091	Ver. OK
017	SLU STR	1	0.000	0.000	-38010.0	-317123.8	0,120	Ver. OK
018	SLU STR	1	0.000	0.000	-29540.0	-317123.8	0,093	Ver. OK
019	SLU STR	1	0.000	0.000	-37340.0	-317123.8	0,118	Ver. OK
020	SLU STR	1	0.000	0.000	-28870.0	-317123.8	0,091	Ver. OK
021	SLU STR	1	0.000	0.000	-37310.0	-317123.8	0,118	Ver. OK
022	SLU STR	1	0.000	0.000	-28840.0	-317123.8	0,091	Ver. OK
023	SLU STR	1	0.000	0.000	-38100.0	-317123.8	0,120	Ver. OK
024	SLU STR	1	0.000	0.000	-29630.0	-317123.8	0,093	Ver. OK
025	SLU STR	1	0.000	0.000	-37430.0	-317123.8	0,118	Ver. OK
026	SLU STR	1	0.000	0.000	-28950.0	-317123.8	0,091	Ver. OK
027	SLU STR	1	0.000	0.000	-37450.0	-317123.8	0,118	Ver. OK
028	SLU STR	1	0.000	0.000	-28980.0	-317123.8	0,091	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-21940.0	-317123.8	0,069	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-23600.0	-317123.8	0,074	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-32880.0	-317123.8	0,104	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-34540.0	-317123.8	0,109	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-21930.0	-317123.8	0,069	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-23610.0	-317123.8	0,074	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-32870.0	-317123.8	0,104	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-34550.0	-317123.8	0,109	Ver. OK



037	SLV A1 sism.	1	0.000	0.000	-21960.0	-317123.8	0,069	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-23620.0	-317123.8	0,074	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-32860.0	-317123.8	0,104	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-34520.0	-317123.8	0,109	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-21950.0	-317123.8	0,069	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-23630.0	-317123.8	0,075	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-32850.0	-317123.8	0,104	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-34520.0	-317123.8	0,109	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-23830.0	-317123.8	0,075	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-29360.0	-317123.8	0,093	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-27120.0	-317123.8	0,086	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-32650.0	-317123.8	0,103	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-23840.0	-317123.8	0,075	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-29370.0	-317123.8	0,093	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-27110.0	-317123.8	0,085	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-32640.0	-317123.8	0,103	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-23810.0	-317123.8	0,075	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-29390.0	-317123.8	0,093	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-27090.0	-317123.8	0,085	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-32670.0	-317123.8	0,103	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-23820.0	-317123.8	0,075	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-29390.0	-317123.8	0,093	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-27090.0	-317123.8	0,085	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-32660.0	-317123.8	0,103	Ver. OK
061	SLD sism.	1	0.000	0.000	-23340.0	-317123.8	0,074	Ver. OK
062	SLD sism.	1	0.000	0.000	-24630.0	-317123.8	0,078	Ver. OK
063	SLD sism.	1	0.000	0.000	-31850.0	-317123.8	0,100	Ver. OK
064	SLD sism.	1	0.000	0.000	-33140.0	-317123.8	0,105	Ver. OK
065	SLD sism.	1	0.000	0.000	-23340.0	-317123.8	0,074	Ver. OK
066	SLD sism.	1	0.000	0.000	-24640.0	-317123.8	0,078	Ver. OK
067	SLD sism.	1	0.000	0.000	-31840.0	-317123.8	0,100	Ver. OK
068	SLD sism.	1	0.000	0.000	-33140.0	-317123.8	0,105	Ver. OK
069	SLD sism.	1	0.000	0.000	-23360.0	-317123.8	0,074	Ver. OK
070	SLD sism.	1	0.000	0.000	-24650.0	-317123.8	0,078	Ver. OK
071	SLD sism.	1	0.000	0.000	-31830.0	-317123.8	0,100	Ver. OK
072	SLD sism.	1	0.000	0.000	-33120.0	-317123.8	0,104	Ver. OK
073	SLD sism.	1	0.000	0.000	-23350.0	-317123.8	0,074	Ver. OK
074	SLD sism.	1	0.000	0.000	-24660.0	-317123.8	0,078	Ver. OK
075	SLD sism.	1	0.000	0.000	-31820.0	-317123.8	0,100	Ver. OK
076	SLD sism.	1	0.000	0.000	-33120.0	-317123.8	0,104	Ver. OK
077	SLD sism.	1	0.000	0.000	-24820.0	-317123.8	0,078	Ver. OK
078	SLD sism.	1	0.000	0.000	-29110.0	-317123.8	0,092	Ver. OK
079	SLD sism.	1	0.000	0.000	-27370.0	-317123.8	0,086	Ver. OK
080	SLD sism.	1	0.000	0.000	-31660.0	-317123.8	0,100	Ver. OK
081	SLD sism.	1	0.000	0.000	-24820.0	-317123.8	0,078	Ver. OK
082	SLD sism.	1	0.000	0.000	-29120.0	-317123.8	0,092	Ver. OK
083	SLD sism.	1	0.000	0.000	-27360.0	-317123.8	0,086	Ver. OK
084	SLD sism.	1	0.000	0.000	-31660.0	-317123.8	0,100	Ver. OK
085	SLD sism.	1	0.000	0.000	-24800.0	-317123.8	0,078	Ver. OK
086	SLD sism.	1	0.000	0.000	-29130.0	-317123.8	0,092	Ver. OK
087	SLD sism.	1	0.000	0.000	-27350.0	-317123.8	0,086	Ver. OK
088	SLD sism.	1	0.000	0.000	-31680.0	-317123.8	0,100	Ver. OK
089	SLD sism.	1	0.000	0.000	-24800.0	-317123.8	0,078	Ver. OK
090	SLD sism.	1	0.000	0.000	-29140.0	-317123.8	0,092	Ver. OK
091	SLD sism.	1	0.000	0.000	-27340.0	-317123.8	0,086	Ver. OK
092	SLD sism.	1	0.000	0.000	-31680.0	-317123.8	0,100	Ver. OK

Situazione più gravosa in cmb n. 11

Elemento: 435 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-57970.0	-317123.8	0,183	Ver. OK
002	SLU STR	1	0.000	0.000	-44900.0	-317123.8	0,142	Ver. OK
003	SLU STR	1	0.000	0.000	-57300.0	-317123.8	0,181	Ver. OK



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004	SLU STR	1	0.000	0.000	-44230.0	-317123.8	0,139	Ver. OK
005	SLU STR	1	0.000	0.000	-57920.0	-317123.8	0,183	Ver. OK
006	SLU STR	1	0.000	0.000	-44860.0	-317123.8	0,141	Ver. OK
007	SLU STR	1	0.000	0.000	-57220.0	-317123.8	0,180	Ver. OK
008	SLU STR	1	0.000	0.000	-44160.0	-317123.8	0,139	Ver. OK
009	SLU STR	1	0.000	0.000	-57250.0	-317123.8	0,181	Ver. OK
010	SLU STR	1	0.000	0.000	-44190.0	-317123.8	0,139	Ver. OK
011	SLU STR	1	0.000	0.000	-58010.0	-317123.8	0,183	Ver. OK
012	SLU STR	1	0.000	0.000	-44940.0	-317123.8	0,142	Ver. OK
013	SLU STR	1	0.000	0.000	-57340.0	-317123.8	0,181	Ver. OK
014	SLU STR	1	0.000	0.000	-44270.0	-317123.8	0,140	Ver. OK
015	SLU STR	1	0.000	0.000	-57370.0	-317123.8	0,181	Ver. OK
016	SLU STR	1	0.000	0.000	-44300.0	-317123.8	0,140	Ver. OK
017	SLU STR	1	0.000	0.000	-57920.0	-317123.8	0,183	Ver. OK
018	SLU STR	1	0.000	0.000	-44860.0	-317123.8	0,141	Ver. OK
019	SLU STR	1	0.000	0.000	-57250.0	-317123.8	0,181	Ver. OK
020	SLU STR	1	0.000	0.000	-44190.0	-317123.8	0,139	Ver. OK
021	SLU STR	1	0.000	0.000	-57220.0	-317123.8	0,180	Ver. OK
022	SLU STR	1	0.000	0.000	-44160.0	-317123.8	0,139	Ver. OK
023	SLU STR	1	0.000	0.000	-58010.0	-317123.8	0,183	Ver. OK
024	SLU STR	1	0.000	0.000	-44940.0	-317123.8	0,142	Ver. OK
025	SLU STR	1	0.000	0.000	-57340.0	-317123.8	0,181	Ver. OK
026	SLU STR	1	0.000	0.000	-44270.0	-317123.8	0,140	Ver. OK
027	SLU STR	1	0.000	0.000	-57370.0	-317123.8	0,181	Ver. OK
028	SLU STR	1	0.000	0.000	-44300.0	-317123.8	0,140	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-40520.0	-317123.8	0,128	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-37920.0	-317123.8	0,120	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-49190.0	-317123.8	0,155	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-46590.0	-317123.8	0,147	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-40530.0	-317123.8	0,128	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-37920.0	-317123.8	0,120	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-49200.0	-317123.8	0,155	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-46580.0	-317123.8	0,147	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-40490.0	-317123.8	0,128	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-37890.0	-317123.8	0,119	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-49220.0	-317123.8	0,155	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-46620.0	-317123.8	0,147	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-40500.0	-317123.8	0,128	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-37890.0	-317123.8	0,119	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-49230.0	-317123.8	0,155	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-46610.0	-317123.8	0,147	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-46590.0	-317123.8	0,147	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-37920.0	-317123.8	0,120	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-49190.0	-317123.8	0,155	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-40520.0	-317123.8	0,128	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-46580.0	-317123.8	0,147	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-37910.0	-317123.8	0,120	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-49200.0	-317123.8	0,155	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-40530.0	-317123.8	0,128	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-46620.0	-317123.8	0,147	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-37890.0	-317123.8	0,119	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-49220.0	-317123.8	0,155	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-40490.0	-317123.8	0,128	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-46610.0	-317123.8	0,147	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-37890.0	-317123.8	0,119	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-49230.0	-317123.8	0,155	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-40500.0	-317123.8	0,128	Ver. OK
061	SLD sism.	1	0.000	0.000	-41200.0	-317123.8	0,130	Ver. OK
062	SLD sism.	1	0.000	0.000	-39180.0	-317123.8	0,124	Ver. OK
063	SLD sism.	1	0.000	0.000	-47930.0	-317123.8	0,151	Ver. OK
064	SLD sism.	1	0.000	0.000	-45910.0	-317123.8	0,145	Ver. OK
065	SLD sism.	1	0.000	0.000	-41210.0	-317123.8	0,130	Ver. OK
066	SLD sism.	1	0.000	0.000	-39170.0	-317123.8	0,124	Ver. OK
067	SLD sism.	1	0.000	0.000	-47940.0	-317123.8	0,151	Ver. OK
068	SLD sism.	1	0.000	0.000	-45910.0	-317123.8	0,145	Ver. OK
069	SLD sism.	1	0.000	0.000	-41180.0	-317123.8	0,130	Ver. OK
070	SLD sism.	1	0.000	0.000	-39160.0	-317123.8	0,123	Ver. OK
071	SLD sism.	1	0.000	0.000	-47960.0	-317123.8	0,151	Ver. OK



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072	SLD sism.	1	0.000	0.000	-45940.0	-317123.8	0,145	Ver. OK
073	SLD sism.	1	0.000	0.000	-41180.0	-317123.8	0,130	Ver. OK
074	SLD sism.	1	0.000	0.000	-39150.0	-317123.8	0,123	Ver. OK
075	SLD sism.	1	0.000	0.000	-47960.0	-317123.8	0,151	Ver. OK
076	SLD sism.	1	0.000	0.000	-45930.0	-317123.8	0,145	Ver. OK
077	SLD sism.	1	0.000	0.000	-45910.0	-317123.8	0,145	Ver. OK
078	SLD sism.	1	0.000	0.000	-39180.0	-317123.8	0,124	Ver. OK
079	SLD sism.	1	0.000	0.000	-47940.0	-317123.8	0,151	Ver. OK
080	SLD sism.	1	0.000	0.000	-41200.0	-317123.8	0,130	Ver. OK
081	SLD sism.	1	0.000	0.000	-45910.0	-317123.8	0,145	Ver. OK
082	SLD sism.	1	0.000	0.000	-39170.0	-317123.8	0,124	Ver. OK
083	SLD sism.	1	0.000	0.000	-47940.0	-317123.8	0,151	Ver. OK
084	SLD sism.	1	0.000	0.000	-41210.0	-317123.8	0,130	Ver. OK
085	SLD sism.	1	0.000	0.000	-45940.0	-317123.8	0,145	Ver. OK
086	SLD sism.	1	0.000	0.000	-39160.0	-317123.8	0,123	Ver. OK
087	SLD sism.	1	0.000	0.000	-47960.0	-317123.8	0,151	Ver. OK
088	SLD sism.	1	0.000	0.000	-41180.0	-317123.8	0,130	Ver. OK
089	SLD sism.	1	0.000	0.000	-45930.0	-317123.8	0,145	Ver. OK
090	SLD sism.	1	0.000	0.000	-39150.0	-317123.8	0,123	Ver. OK
091	SLD sism.	1	0.000	0.000	-47960.0	-317123.8	0,151	Ver. OK
092	SLD sism.	1	0.000	0.000	-41180.0	-317123.8	0,130	Ver. OK

Situazione più gravosa in cmb n. 11

Elemento: 477 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb. n.	Tipo	Palo n.	coord.X cm	coord.Y cm	N daN	N lim daN	Ver.N	Stato
001	SLU STR	1	0.000	0.000	-30320.0	-317123.8	0,096	Ver. OK
002	SLU STR	1	0.000	0.000	-23640.0	-317123.8	0,075	Ver. OK
003	SLU STR	1	0.000	0.000	-29650.0	-317123.8	0,093	Ver. OK
004	SLU STR	1	0.000	0.000	-22960.0	-317123.8	0,072	Ver. OK
005	SLU STR	1	0.000	0.000	-30280.0	-317123.8	0,095	Ver. OK
006	SLU STR	1	0.000	0.000	-23590.0	-317123.8	0,074	Ver. OK
007	SLU STR	1	0.000	0.000	-29570.0	-317123.8	0,093	Ver. OK
008	SLU STR	1	0.000	0.000	-22890.0	-317123.8	0,072	Ver. OK
009	SLU STR	1	0.000	0.000	-29600.0	-317123.8	0,093	Ver. OK
010	SLU STR	1	0.000	0.000	-22920.0	-317123.8	0,072	Ver. OK
011	SLU STR	1	0.000	0.000	-30370.0	-317123.8	0,096	Ver. OK
012	SLU STR	1	0.000	0.000	-23680.0	-317123.8	0,075	Ver. OK
013	SLU STR	1	0.000	0.000	-29690.0	-317123.8	0,094	Ver. OK
014	SLU STR	1	0.000	0.000	-23010.0	-317123.8	0,073	Ver. OK
015	SLU STR	1	0.000	0.000	-29720.0	-317123.8	0,094	Ver. OK
016	SLU STR	1	0.000	0.000	-23030.0	-317123.8	0,073	Ver. OK
017	SLU STR	1	0.000	0.000	-30280.0	-317123.8	0,095	Ver. OK
018	SLU STR	1	0.000	0.000	-23590.0	-317123.8	0,074	Ver. OK
019	SLU STR	1	0.000	0.000	-29600.0	-317123.8	0,093	Ver. OK
020	SLU STR	1	0.000	0.000	-22920.0	-317123.8	0,072	Ver. OK
021	SLU STR	1	0.000	0.000	-29570.0	-317123.8	0,093	Ver. OK
022	SLU STR	1	0.000	0.000	-22890.0	-317123.8	0,072	Ver. OK
023	SLU STR	1	0.000	0.000	-30370.0	-317123.8	0,096	Ver. OK
024	SLU STR	1	0.000	0.000	-23680.0	-317123.8	0,075	Ver. OK
025	SLU STR	1	0.000	0.000	-29690.0	-317123.8	0,094	Ver. OK
026	SLU STR	1	0.000	0.000	-23010.0	-317123.8	0,073	Ver. OK
027	SLU STR	1	0.000	0.000	-29720.0	-317123.8	0,094	Ver. OK
028	SLU STR	1	0.000	0.000	-23030.0	-317123.8	0,073	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-17430.0	-317123.8	0,055	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-16010.0	-317123.8	0,050	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-28560.0	-317123.8	0,090	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-27140.0	-317123.8	0,086	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-17440.0	-317123.8	0,055	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-16000.0	-317123.8	0,050	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-28570.0	-317123.8	0,090	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-27140.0	-317123.8	0,086	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-17410.0	-317123.8	0,055	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-15990.0	-317123.8	0,050	Ver. OK



039	SLV A1 sism.	1	0.000	0.000	-28590.0	-317123.8	0,090	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-27170.0	-317123.8	0,086	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-17410.0	-317123.8	0,055	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-15980.0	-317123.8	0,050	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-28590.0	-317123.8	0,090	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-27160.0	-317123.8	0,086	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-22980.0	-317123.8	0,072	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-18250.0	-317123.8	0,058	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-26320.0	-317123.8	0,083	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-21590.0	-317123.8	0,068	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-22980.0	-317123.8	0,072	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-18240.0	-317123.8	0,058	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-26330.0	-317123.8	0,083	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-21600.0	-317123.8	0,068	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-23000.0	-317123.8	0,073	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-18230.0	-317123.8	0,057	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-26340.0	-317123.8	0,083	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-21570.0	-317123.8	0,068	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-23000.0	-317123.8	0,073	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-18220.0	-317123.8	0,057	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-26350.0	-317123.8	0,083	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-21580.0	-317123.8	0,068	Ver. OK
061	SLD sism.	1	0.000	0.000	-18510.0	-317123.8	0,058	Ver. OK
062	SLD sism.	1	0.000	0.000	-17410.0	-317123.8	0,055	Ver. OK
063	SLD sism.	1	0.000	0.000	-27170.0	-317123.8	0,086	Ver. OK
064	SLD sism.	1	0.000	0.000	-26060.0	-317123.8	0,082	Ver. OK
065	SLD sism.	1	0.000	0.000	-18520.0	-317123.8	0,058	Ver. OK
066	SLD sism.	1	0.000	0.000	-17400.0	-317123.8	0,055	Ver. OK
067	SLD sism.	1	0.000	0.000	-27170.0	-317123.8	0,086	Ver. OK
068	SLD sism.	1	0.000	0.000	-26060.0	-317123.8	0,082	Ver. OK
069	SLD sism.	1	0.000	0.000	-18490.0	-317123.8	0,058	Ver. OK
070	SLD sism.	1	0.000	0.000	-17390.0	-317123.8	0,055	Ver. OK
071	SLD sism.	1	0.000	0.000	-27180.0	-317123.8	0,086	Ver. OK
072	SLD sism.	1	0.000	0.000	-26080.0	-317123.8	0,082	Ver. OK
073	SLD sism.	1	0.000	0.000	-18500.0	-317123.8	0,058	Ver. OK
074	SLD sism.	1	0.000	0.000	-17390.0	-317123.8	0,055	Ver. OK
075	SLD sism.	1	0.000	0.000	-27190.0	-317123.8	0,086	Ver. OK
076	SLD sism.	1	0.000	0.000	-26070.0	-317123.8	0,082	Ver. OK
077	SLD sism.	1	0.000	0.000	-22830.0	-317123.8	0,072	Ver. OK
078	SLD sism.	1	0.000	0.000	-19150.0	-317123.8	0,060	Ver. OK
079	SLD sism.	1	0.000	0.000	-25420.0	-317123.8	0,080	Ver. OK
080	SLD sism.	1	0.000	0.000	-21740.0	-317123.8	0,069	Ver. OK
081	SLD sism.	1	0.000	0.000	-22820.0	-317123.8	0,072	Ver. OK
082	SLD sism.	1	0.000	0.000	-19140.0	-317123.8	0,060	Ver. OK
083	SLD sism.	1	0.000	0.000	-25430.0	-317123.8	0,080	Ver. OK
084	SLD sism.	1	0.000	0.000	-21750.0	-317123.8	0,069	Ver. OK
085	SLD sism.	1	0.000	0.000	-22840.0	-317123.8	0,072	Ver. OK
086	SLD sism.	1	0.000	0.000	-19130.0	-317123.8	0,060	Ver. OK
087	SLD sism.	1	0.000	0.000	-25440.0	-317123.8	0,080	Ver. OK
088	SLD sism.	1	0.000	0.000	-21730.0	-317123.8	0,069	Ver. OK
089	SLD sism.	1	0.000	0.000	-22840.0	-317123.8	0,072	Ver. OK
090	SLD sism.	1	0.000	0.000	-19130.0	-317123.8	0,060	Ver. OK
091	SLD sism.	1	0.000	0.000	-25450.0	-317123.8	0,080	Ver. OK
092	SLD sism.	1	0.000	0.000	-21730.0	-317123.8	0,069	Ver. OK

Situazione più gravosa in cmb n. 11

Elemento: 533 - Palo singolo

$N_q = 14.371$, $\sigma_{punta} = 4.968$, $\phi = 24.0$, $N_c = 30.031$, $c_{punta} = 0.050$

Port. lat. = 428048.8 daN, Port. punta = 280508.2 daN, P.P.Palo = 24052.8 daN

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.		n.	cm	cm	daN	daN		
001	SLU STR	1	0.000	0.000	-107400.0	-317123.8	0,339	Ver. OK
002	SLU STR	1	0.000	0.000	-82930.0	-317123.8	0,262	Ver. OK
003	SLU STR	1	0.000	0.000	-106700.0	-317123.8	0,336	Ver. OK
004	SLU STR	1	0.000	0.000	-82250.0	-317123.8	0,259	Ver. OK
005	SLU STR	1	0.000	0.000	-107400.0	-317123.8	0,339	Ver. OK



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006	SLU STR	1	0.000	0.000	-82880.0	-317123.8	0,261	Ver. OK
007	SLU STR	1	0.000	0.000	-106700.0	-317123.8	0,336	Ver. OK
008	SLU STR	1	0.000	0.000	-82180.0	-317123.8	0,259	Ver. OK
009	SLU STR	1	0.000	0.000	-106700.0	-317123.8	0,336	Ver. OK
010	SLU STR	1	0.000	0.000	-82210.0	-317123.8	0,259	Ver. OK
011	SLU STR	1	0.000	0.000	-107400.0	-317123.8	0,339	Ver. OK
012	SLU STR	1	0.000	0.000	-82970.0	-317123.8	0,262	Ver. OK
013	SLU STR	1	0.000	0.000	-106800.0	-317123.8	0,337	Ver. OK
014	SLU STR	1	0.000	0.000	-82300.0	-317123.8	0,260	Ver. OK
015	SLU STR	1	0.000	0.000	-106800.0	-317123.8	0,337	Ver. OK
016	SLU STR	1	0.000	0.000	-82330.0	-317123.8	0,260	Ver. OK
017	SLU STR	1	0.000	0.000	-107400.0	-317123.8	0,339	Ver. OK
018	SLU STR	1	0.000	0.000	-82880.0	-317123.8	0,261	Ver. OK
019	SLU STR	1	0.000	0.000	-106700.0	-317123.8	0,336	Ver. OK
020	SLU STR	1	0.000	0.000	-82210.0	-317123.8	0,259	Ver. OK
021	SLU STR	1	0.000	0.000	-106700.0	-317123.8	0,336	Ver. OK
022	SLU STR	1	0.000	0.000	-82180.0	-317123.8	0,259	Ver. OK
023	SLU STR	1	0.000	0.000	-107400.0	-317123.8	0,339	Ver. OK
024	SLU STR	1	0.000	0.000	-82970.0	-317123.8	0,262	Ver. OK
025	SLU STR	1	0.000	0.000	-106800.0	-317123.8	0,337	Ver. OK
026	SLU STR	1	0.000	0.000	-82300.0	-317123.8	0,260	Ver. OK
027	SLU STR	1	0.000	0.000	-106800.0	-317123.8	0,337	Ver. OK
028	SLU STR	1	0.000	0.000	-82330.0	-317123.8	0,260	Ver. OK
029	SLV A1 sism.	1	0.000	0.000	-81020.0	-317123.8	0,255	Ver. OK
030	SLV A1 sism.	1	0.000	0.000	-77640.0	-317123.8	0,245	Ver. OK
031	SLV A1 sism.	1	0.000	0.000	-85530.0	-317123.8	0,270	Ver. OK
032	SLV A1 sism.	1	0.000	0.000	-82150.0	-317123.8	0,259	Ver. OK
033	SLV A1 sism.	1	0.000	0.000	-81020.0	-317123.8	0,255	Ver. OK
034	SLV A1 sism.	1	0.000	0.000	-77630.0	-317123.8	0,245	Ver. OK
035	SLV A1 sism.	1	0.000	0.000	-85530.0	-317123.8	0,270	Ver. OK
036	SLV A1 sism.	1	0.000	0.000	-82140.0	-317123.8	0,259	Ver. OK
037	SLV A1 sism.	1	0.000	0.000	-81000.0	-317123.8	0,255	Ver. OK
038	SLV A1 sism.	1	0.000	0.000	-77620.0	-317123.8	0,245	Ver. OK
039	SLV A1 sism.	1	0.000	0.000	-85550.0	-317123.8	0,270	Ver. OK
040	SLV A1 sism.	1	0.000	0.000	-82170.0	-317123.8	0,259	Ver. OK
041	SLV A1 sism.	1	0.000	0.000	-81000.0	-317123.8	0,255	Ver. OK
042	SLV A1 sism.	1	0.000	0.000	-77610.0	-317123.8	0,245	Ver. OK
043	SLV A1 sism.	1	0.000	0.000	-85550.0	-317123.8	0,270	Ver. OK
044	SLV A1 sism.	1	0.000	0.000	-82160.0	-317123.8	0,259	Ver. OK
045	SLV A1 sism.	1	0.000	0.000	-86540.0	-317123.8	0,273	Ver. OK
046	SLV A1 sism.	1	0.000	0.000	-75280.0	-317123.8	0,237	Ver. OK
047	SLV A1 sism.	1	0.000	0.000	-87890.0	-317123.8	0,277	Ver. OK
048	SLV A1 sism.	1	0.000	0.000	-76630.0	-317123.8	0,242	Ver. OK
049	SLV A1 sism.	1	0.000	0.000	-86530.0	-317123.8	0,273	Ver. OK
050	SLV A1 sism.	1	0.000	0.000	-75270.0	-317123.8	0,237	Ver. OK
051	SLV A1 sism.	1	0.000	0.000	-87900.0	-317123.8	0,277	Ver. OK
052	SLV A1 sism.	1	0.000	0.000	-76640.0	-317123.8	0,242	Ver. OK
053	SLV A1 sism.	1	0.000	0.000	-86560.0	-317123.8	0,273	Ver. OK
054	SLV A1 sism.	1	0.000	0.000	-75260.0	-317123.8	0,237	Ver. OK
055	SLV A1 sism.	1	0.000	0.000	-87910.0	-317123.8	0,277	Ver. OK
056	SLV A1 sism.	1	0.000	0.000	-76610.0	-317123.8	0,242	Ver. OK
057	SLV A1 sism.	1	0.000	0.000	-86550.0	-317123.8	0,273	Ver. OK
058	SLV A1 sism.	1	0.000	0.000	-75250.0	-317123.8	0,237	Ver. OK
059	SLV A1 sism.	1	0.000	0.000	-87920.0	-317123.8	0,277	Ver. OK
060	SLV A1 sism.	1	0.000	0.000	-76620.0	-317123.8	0,242	Ver. OK
061	SLD sism.	1	0.000	0.000	-81140.0	-317123.8	0,256	Ver. OK
062	SLD sism.	1	0.000	0.000	-78520.0	-317123.8	0,248	Ver. OK
063	SLD sism.	1	0.000	0.000	-84650.0	-317123.8	0,267	Ver. OK
064	SLD sism.	1	0.000	0.000	-82020.0	-317123.8	0,259	Ver. OK
065	SLD sism.	1	0.000	0.000	-81150.0	-317123.8	0,256	Ver. OK
066	SLD sism.	1	0.000	0.000	-78510.0	-317123.8	0,248	Ver. OK
067	SLD sism.	1	0.000	0.000	-84650.0	-317123.8	0,267	Ver. OK
068	SLD sism.	1	0.000	0.000	-82020.0	-317123.8	0,259	Ver. OK
069	SLD sism.	1	0.000	0.000	-81130.0	-317123.8	0,256	Ver. OK
070	SLD sism.	1	0.000	0.000	-78500.0	-317123.8	0,248	Ver. OK
071	SLD sism.	1	0.000	0.000	-84660.0	-317123.8	0,267	Ver. OK
072	SLD sism.	1	0.000	0.000	-82040.0	-317123.8	0,259	Ver. OK
073	SLD sism.	1	0.000	0.000	-81130.0	-317123.8	0,256	Ver. OK



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074	SLD sism.	1	0.000	0.000	-78500.0	-317123.8	0,248	Ver. OK
075	SLD sism.	1	0.000	0.000	-84670.0	-317123.8	0,267	Ver. OK
076	SLD sism.	1	0.000	0.000	-82030.0	-317123.8	0,259	Ver. OK
077	SLD sism.	1	0.000	0.000	-85430.0	-317123.8	0,269	Ver. OK
078	SLD sism.	1	0.000	0.000	-76680.0	-317123.8	0,242	Ver. OK
079	SLD sism.	1	0.000	0.000	-86490.0	-317123.8	0,273	Ver. OK
080	SLD sism.	1	0.000	0.000	-77730.0	-317123.8	0,245	Ver. OK
081	SLD sism.	1	0.000	0.000	-85430.0	-317123.8	0,269	Ver. OK
082	SLD sism.	1	0.000	0.000	-76680.0	-317123.8	0,242	Ver. OK
083	SLD sism.	1	0.000	0.000	-86490.0	-317123.8	0,273	Ver. OK
084	SLD sism.	1	0.000	0.000	-77740.0	-317123.8	0,245	Ver. OK
085	SLD sism.	1	0.000	0.000	-85450.0	-317123.8	0,269	Ver. OK
086	SLD sism.	1	0.000	0.000	-76670.0	-317123.8	0,242	Ver. OK
087	SLD sism.	1	0.000	0.000	-86500.0	-317123.8	0,273	Ver. OK
088	SLD sism.	1	0.000	0.000	-77720.0	-317123.8	0,245	Ver. OK
089	SLD sism.	1	0.000	0.000	-85440.0	-317123.8	0,269	Ver. OK
090	SLD sism.	1	0.000	0.000	-76660.0	-317123.8	0,242	Ver. OK
091	SLD sism.	1	0.000	0.000	-86500.0	-317123.8	0,273	Ver. OK
092	SLD sism.	1	0.000	0.000	-77720.0	-317123.8	0,245	Ver. OK

Situazione più gravosa in cmb n. 1

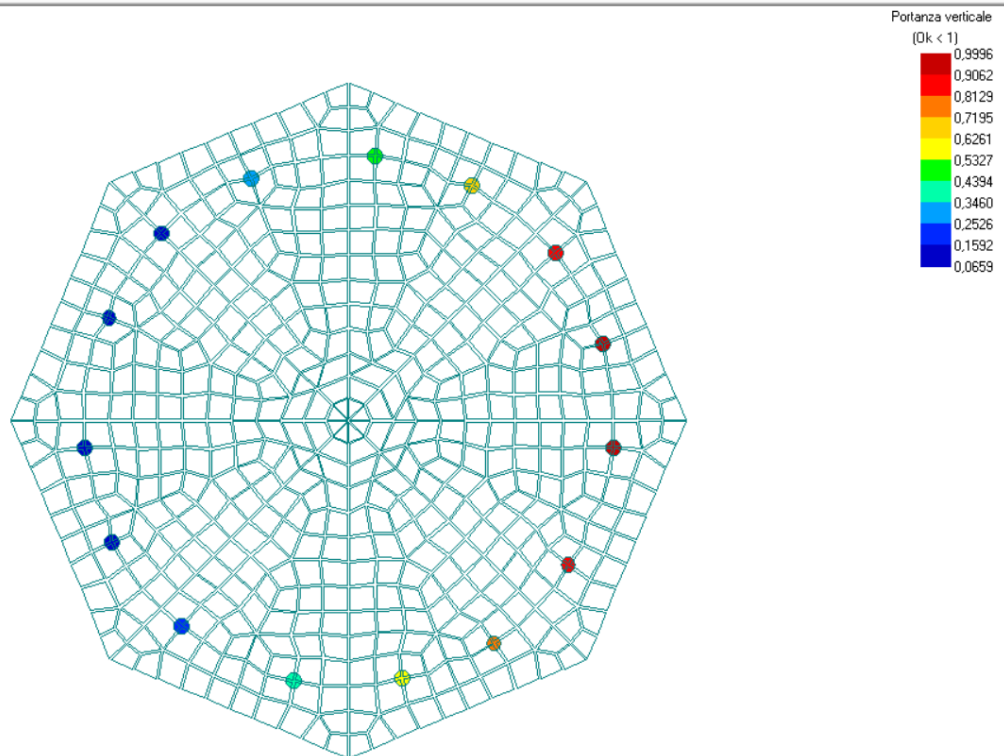


Figura 10: Verifica della portanza verticale.



Valori di calcolo dei cedimenti per fondazioni profonde

Elemento: 66 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-134500.0	0.312
094 (SLE rare)	1	0.000	0.000	-134000.0	0.311
095 (SLE rare)	1	0.000	0.000	-134400.0	0.312
096 (SLE rare)	1	0.000	0.000	-134000.0	0.311
097 (SLE rare)	1	0.000	0.000	-134000.0	0.311
098 (SLE rare)	1	0.000	0.000	-134500.0	0.312
099 (SLE rare)	1	0.000	0.000	-134100.0	0.311
100 (SLE rare)	1	0.000	0.000	-134100.0	0.311
101 (SLE rare)	1	0.000	0.000	-134400.0	0.312
102 (SLE rare)	1	0.000	0.000	-134000.0	0.311
103 (SLE rare)	1	0.000	0.000	-134000.0	0.311
104 (SLE rare)	1	0.000	0.000	-134500.0	0.312
105 (SLE rare)	1	0.000	0.000	-134100.0	0.311
106 (SLE rare)	1	0.000	0.000	-134100.0	0.311
107 (SLE freq)	1	0.000	0.000	-133800.0	0.310
108 (SLE freq)	1	0.000	0.000	-133600.0	0.310
109 (SLE freq)	1	0.000	0.000	-133600.0	0.310
110 (SLE freq)	1	0.000	0.000	-133600.0	0.310
111 (SLE freq)	1	0.000	0.000	-133600.0	0.310
112 (SLE freq)	1	0.000	0.000	-133600.0	0.310
113 (SLE q.p.)	1	0.000	0.000	-133600.0	0.310

Elemento: 82 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-176300.0	0.409
094 (SLE rare)	1	0.000	0.000	-175900.0	0.408
095 (SLE rare)	1	0.000	0.000	-176300.0	0.409
096 (SLE rare)	1	0.000	0.000	-175800.0	0.408
097 (SLE rare)	1	0.000	0.000	-175800.0	0.408
098 (SLE rare)	1	0.000	0.000	-176300.0	0.409
099 (SLE rare)	1	0.000	0.000	-175900.0	0.408
100 (SLE rare)	1	0.000	0.000	-175900.0	0.408
101 (SLE rare)	1	0.000	0.000	-176300.0	0.409
102 (SLE rare)	1	0.000	0.000	-175800.0	0.408
103 (SLE rare)	1	0.000	0.000	-175800.0	0.408
104 (SLE rare)	1	0.000	0.000	-176300.0	0.409
105 (SLE rare)	1	0.000	0.000	-175900.0	0.408
106 (SLE rare)	1	0.000	0.000	-175900.0	0.408
107 (SLE freq)	1	0.000	0.000	-175600.0	0.407
108 (SLE freq)	1	0.000	0.000	-175400.0	0.407
109 (SLE freq)	1	0.000	0.000	-175400.0	0.407
110 (SLE freq)	1	0.000	0.000	-175400.0	0.407
111 (SLE freq)	1	0.000	0.000	-175400.0	0.407
112 (SLE freq)	1	0.000	0.000	-175400.0	0.407
113 (SLE q.p.)	1	0.000	0.000	-175400.0	0.407

Elemento: 131 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-213100.0	0.465
094 (SLE rare)	1	0.000	0.000	-212700.0	0.465
095 (SLE rare)	1	0.000	0.000	-213100.0	0.465
096 (SLE rare)	1	0.000	0.000	-212700.0	0.465
097 (SLE rare)	1	0.000	0.000	-212700.0	0.465
098 (SLE rare)	1	0.000	0.000	-213200.0	0.465
099 (SLE rare)	1	0.000	0.000	-212700.0	0.465
100 (SLE rare)	1	0.000	0.000	-212800.0	0.465
101 (SLE rare)	1	0.000	0.000	-213100.0	0.465
102 (SLE rare)	1	0.000	0.000	-212700.0	0.465
103 (SLE rare)	1	0.000	0.000	-212700.0	0.465
104 (SLE rare)	1	0.000	0.000	-213200.0	0.465



105 (SLE rare)	1	0.000	0.000	-212700.0	0.465
106 (SLE rare)	1	0.000	0.000	-212800.0	0.465
107 (SLE freq)	1	0.000	0.000	-212400.0	0.465
108 (SLE freq)	1	0.000	0.000	-212300.0	0.465
109 (SLE freq)	1	0.000	0.000	-212300.0	0.465
110 (SLE freq)	1	0.000	0.000	-212300.0	0.465
111 (SLE freq)	1	0.000	0.000	-212300.0	0.465
112 (SLE freq)	1	0.000	0.000	-212300.0	0.465
113 (SLE q.p.)	1	0.000	0.000	-212300.0	0.465

Elemento: 149 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-236100.0	0.481
094 (SLE rare)	1	0.000	0.000	-235600.0	0.479
095 (SLE rare)	1	0.000	0.000	-236100.0	0.481
096 (SLE rare)	1	0.000	0.000	-235600.0	0.479
097 (SLE rare)	1	0.000	0.000	-235600.0	0.479
098 (SLE rare)	1	0.000	0.000	-236100.0	0.481
099 (SLE rare)	1	0.000	0.000	-235700.0	0.479
100 (SLE rare)	1	0.000	0.000	-235700.0	0.479
101 (SLE rare)	1	0.000	0.000	-236100.0	0.481
102 (SLE rare)	1	0.000	0.000	-235600.0	0.479
103 (SLE rare)	1	0.000	0.000	-235600.0	0.479
104 (SLE rare)	1	0.000	0.000	-236100.0	0.481
105 (SLE rare)	1	0.000	0.000	-235700.0	0.479
106 (SLE rare)	1	0.000	0.000	-235700.0	0.479
107 (SLE freq)	1	0.000	0.000	-235400.0	0.478
108 (SLE freq)	1	0.000	0.000	-235200.0	0.478
109 (SLE freq)	1	0.000	0.000	-235200.0	0.478
110 (SLE freq)	1	0.000	0.000	-235200.0	0.478
111 (SLE freq)	1	0.000	0.000	-235200.0	0.478
112 (SLE freq)	1	0.000	0.000	-235200.0	0.478
113 (SLE q.p.)	1	0.000	0.000	-235200.0	0.478

Elemento: 197 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-243700.0	0.514
094 (SLE rare)	1	0.000	0.000	-243200.0	0.511
095 (SLE rare)	1	0.000	0.000	-243600.0	0.513
096 (SLE rare)	1	0.000	0.000	-243200.0	0.511
097 (SLE rare)	1	0.000	0.000	-243200.0	0.511
098 (SLE rare)	1	0.000	0.000	-243700.0	0.514
099 (SLE rare)	1	0.000	0.000	-243300.0	0.511
100 (SLE rare)	1	0.000	0.000	-243300.0	0.511
101 (SLE rare)	1	0.000	0.000	-243600.0	0.513
102 (SLE rare)	1	0.000	0.000	-243200.0	0.511
103 (SLE rare)	1	0.000	0.000	-243200.0	0.511
104 (SLE rare)	1	0.000	0.000	-243700.0	0.514
105 (SLE rare)	1	0.000	0.000	-243300.0	0.511
106 (SLE rare)	1	0.000	0.000	-243300.0	0.511
107 (SLE freq)	1	0.000	0.000	-243000.0	0.509
108 (SLE freq)	1	0.000	0.000	-242800.0	0.508
109 (SLE freq)	1	0.000	0.000	-242800.0	0.508
110 (SLE freq)	1	0.000	0.000	-242800.0	0.508
111 (SLE freq)	1	0.000	0.000	-242800.0	0.508
112 (SLE freq)	1	0.000	0.000	-242800.0	0.508
113 (SLE q.p.)	1	0.000	0.000	-242800.0	0.508

Elemento: 217 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-228200.0	0.468
094 (SLE rare)	1	0.000	0.000	-227700.0	0.468
095 (SLE rare)	1	0.000	0.000	-228100.0	0.468
096 (SLE rare)	1	0.000	0.000	-227700.0	0.468
097 (SLE rare)	1	0.000	0.000	-227700.0	0.468



098 (SLE rare)	1	0.000	0.000	-228200.0	0.468
099 (SLE rare)	1	0.000	0.000	-227800.0	0.468
100 (SLE rare)	1	0.000	0.000	-227800.0	0.468
101 (SLE rare)	1	0.000	0.000	-228100.0	0.468
102 (SLE rare)	1	0.000	0.000	-227700.0	0.468
103 (SLE rare)	1	0.000	0.000	-227700.0	0.468
104 (SLE rare)	1	0.000	0.000	-228200.0	0.468
105 (SLE rare)	1	0.000	0.000	-227800.0	0.468
106 (SLE rare)	1	0.000	0.000	-227800.0	0.468
107 (SLE freq)	1	0.000	0.000	-227500.0	0.468
108 (SLE freq)	1	0.000	0.000	-227300.0	0.468
109 (SLE freq)	1	0.000	0.000	-227300.0	0.468
110 (SLE freq)	1	0.000	0.000	-227300.0	0.468
111 (SLE freq)	1	0.000	0.000	-227300.0	0.468
112 (SLE freq)	1	0.000	0.000	-227300.0	0.468
113 (SLE q.p.)	1	0.000	0.000	-227300.0	0.468

Elemento: 282 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-196200.0	0.455
094 (SLE rare)	1	0.000	0.000	-195800.0	0.454
095 (SLE rare)	1	0.000	0.000	-196200.0	0.455
096 (SLE rare)	1	0.000	0.000	-195800.0	0.454
097 (SLE rare)	1	0.000	0.000	-195800.0	0.454
098 (SLE rare)	1	0.000	0.000	-196300.0	0.455
099 (SLE rare)	1	0.000	0.000	-195800.0	0.454
100 (SLE rare)	1	0.000	0.000	-195900.0	0.454
101 (SLE rare)	1	0.000	0.000	-196200.0	0.455
102 (SLE rare)	1	0.000	0.000	-195800.0	0.454
103 (SLE rare)	1	0.000	0.000	-195800.0	0.454
104 (SLE rare)	1	0.000	0.000	-196300.0	0.455
105 (SLE rare)	1	0.000	0.000	-195800.0	0.454
106 (SLE rare)	1	0.000	0.000	-195900.0	0.454
107 (SLE freq)	1	0.000	0.000	-195500.0	0.453
108 (SLE freq)	1	0.000	0.000	-195400.0	0.453
109 (SLE freq)	1	0.000	0.000	-195400.0	0.453
110 (SLE freq)	1	0.000	0.000	-195400.0	0.453
111 (SLE freq)	1	0.000	0.000	-195400.0	0.453
112 (SLE freq)	1	0.000	0.000	-195400.0	0.453
113 (SLE q.p.)	1	0.000	0.000	-195400.0	0.453

Elemento: 283 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-157600.0	0.365
094 (SLE rare)	1	0.000	0.000	-157100.0	0.364
095 (SLE rare)	1	0.000	0.000	-157500.0	0.365
096 (SLE rare)	1	0.000	0.000	-157100.0	0.364
097 (SLE rare)	1	0.000	0.000	-157100.0	0.364
098 (SLE rare)	1	0.000	0.000	-157600.0	0.365
099 (SLE rare)	1	0.000	0.000	-157200.0	0.364
100 (SLE rare)	1	0.000	0.000	-157200.0	0.364
101 (SLE rare)	1	0.000	0.000	-157500.0	0.365
102 (SLE rare)	1	0.000	0.000	-157100.0	0.364
103 (SLE rare)	1	0.000	0.000	-157100.0	0.364
104 (SLE rare)	1	0.000	0.000	-157600.0	0.365
105 (SLE rare)	1	0.000	0.000	-157200.0	0.364
106 (SLE rare)	1	0.000	0.000	-157200.0	0.364
107 (SLE freq)	1	0.000	0.000	-156900.0	0.364
108 (SLE freq)	1	0.000	0.000	-156700.0	0.363
109 (SLE freq)	1	0.000	0.000	-156700.0	0.363
110 (SLE freq)	1	0.000	0.000	-156700.0	0.363
111 (SLE freq)	1	0.000	0.000	-156700.0	0.363
112 (SLE freq)	1	0.000	0.000	-156700.0	0.363
113 (SLE q.p.)	1	0.000	0.000	-156700.0	0.363

Elemento: 330 - Palo singolo



Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-61070.0	0.142
094 (SLE rare)	1	0.000	0.000	-60620.0	0.141
095 (SLE rare)	1	0.000	0.000	-61040.0	0.142
096 (SLE rare)	1	0.000	0.000	-60570.0	0.140
097 (SLE rare)	1	0.000	0.000	-60590.0	0.140
098 (SLE rare)	1	0.000	0.000	-61100.0	0.142
099 (SLE rare)	1	0.000	0.000	-60650.0	0.141
100 (SLE rare)	1	0.000	0.000	-60670.0	0.141
101 (SLE rare)	1	0.000	0.000	-61040.0	0.142
102 (SLE rare)	1	0.000	0.000	-60590.0	0.140
103 (SLE rare)	1	0.000	0.000	-60570.0	0.140
104 (SLE rare)	1	0.000	0.000	-61100.0	0.142
105 (SLE rare)	1	0.000	0.000	-60650.0	0.141
106 (SLE rare)	1	0.000	0.000	-60670.0	0.141
107 (SLE freq)	1	0.000	0.000	-60350.0	0.140
108 (SLE freq)	1	0.000	0.000	-60170.0	0.139
109 (SLE freq)	1	0.000	0.000	-60160.0	0.139
110 (SLE freq)	1	0.000	0.000	-60180.0	0.140
111 (SLE freq)	1	0.000	0.000	-60160.0	0.139
112 (SLE freq)	1	0.000	0.000	-60180.0	0.140
113 (SLE q.p.)	1	0.000	0.000	-60170.0	0.139

Elemento: 348 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-110500.0	0.256
094 (SLE rare)	1	0.000	0.000	-110100.0	0.255
095 (SLE rare)	1	0.000	0.000	-110500.0	0.256
096 (SLE rare)	1	0.000	0.000	-110000.0	0.255
097 (SLE rare)	1	0.000	0.000	-110100.0	0.255
098 (SLE rare)	1	0.000	0.000	-110600.0	0.256
099 (SLE rare)	1	0.000	0.000	-110100.0	0.255
100 (SLE rare)	1	0.000	0.000	-110100.0	0.255
101 (SLE rare)	1	0.000	0.000	-110500.0	0.256
102 (SLE rare)	1	0.000	0.000	-110100.0	0.255
103 (SLE rare)	1	0.000	0.000	-110000.0	0.255
104 (SLE rare)	1	0.000	0.000	-110600.0	0.256
105 (SLE rare)	1	0.000	0.000	-110100.0	0.255
106 (SLE rare)	1	0.000	0.000	-110100.0	0.255
107 (SLE freq)	1	0.000	0.000	-109800.0	0.255
108 (SLE freq)	1	0.000	0.000	-109600.0	0.254
109 (SLE freq)	1	0.000	0.000	-109600.0	0.254
110 (SLE freq)	1	0.000	0.000	-109700.0	0.254
111 (SLE freq)	1	0.000	0.000	-109600.0	0.254
112 (SLE freq)	1	0.000	0.000	-109700.0	0.254
113 (SLE q.p.)	1	0.000	0.000	-109600.0	0.254

Elemento: 395 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-15500.0	0.036
094 (SLE rare)	1	0.000	0.000	-15050.0	0.035
095 (SLE rare)	1	0.000	0.000	-15470.0	0.036
096 (SLE rare)	1	0.000	0.000	-15000.0	0.035
097 (SLE rare)	1	0.000	0.000	-15020.0	0.035
098 (SLE rare)	1	0.000	0.000	-15520.0	0.036
099 (SLE rare)	1	0.000	0.000	-15080.0	0.035
100 (SLE rare)	1	0.000	0.000	-15100.0	0.035
101 (SLE rare)	1	0.000	0.000	-15470.0	0.036
102 (SLE rare)	1	0.000	0.000	-15020.0	0.035
103 (SLE rare)	1	0.000	0.000	-15000.0	0.035
104 (SLE rare)	1	0.000	0.000	-15520.0	0.036
105 (SLE rare)	1	0.000	0.000	-15080.0	0.035
106 (SLE rare)	1	0.000	0.000	-15100.0	0.035
107 (SLE freq)	1	0.000	0.000	-14780.0	0.034
108 (SLE freq)	1	0.000	0.000	-14600.0	0.034



109 (SLE freq)	1	0.000	0.000	-14590.0	0.034
110 (SLE freq)	1	0.000	0.000	-14610.0	0.034
111 (SLE freq)	1	0.000	0.000	-14590.0	0.034
112 (SLE freq)	1	0.000	0.000	-14610.0	0.034
113 (SLE q.p.)	1	0.000	0.000	-14600.0	0.034

Elemento: 413 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-29140.0	0.068
094 (SLE rare)	1	0.000	0.000	-28690.0	0.067
095 (SLE rare)	1	0.000	0.000	-29110.0	0.067
096 (SLE rare)	1	0.000	0.000	-28640.0	0.066
097 (SLE rare)	1	0.000	0.000	-28660.0	0.066
098 (SLE rare)	1	0.000	0.000	-29160.0	0.068
099 (SLE rare)	1	0.000	0.000	-28720.0	0.067
100 (SLE rare)	1	0.000	0.000	-28730.0	0.067
101 (SLE rare)	1	0.000	0.000	-29110.0	0.067
102 (SLE rare)	1	0.000	0.000	-28660.0	0.066
103 (SLE rare)	1	0.000	0.000	-28640.0	0.066
104 (SLE rare)	1	0.000	0.000	-29160.0	0.068
105 (SLE rare)	1	0.000	0.000	-28720.0	0.067
106 (SLE rare)	1	0.000	0.000	-28730.0	0.067
107 (SLE freq)	1	0.000	0.000	-28420.0	0.066
108 (SLE freq)	1	0.000	0.000	-28240.0	0.065
109 (SLE freq)	1	0.000	0.000	-28230.0	0.065
110 (SLE freq)	1	0.000	0.000	-28250.0	0.065
111 (SLE freq)	1	0.000	0.000	-28230.0	0.065
112 (SLE freq)	1	0.000	0.000	-28250.0	0.065
113 (SLE q.p.)	1	0.000	0.000	-28240.0	0.065

Elemento: 435 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-44450.0	0.103
094 (SLE rare)	1	0.000	0.000	-44000.0	0.102
095 (SLE rare)	1	0.000	0.000	-44420.0	0.103
096 (SLE rare)	1	0.000	0.000	-43960.0	0.102
097 (SLE rare)	1	0.000	0.000	-43980.0	0.102
098 (SLE rare)	1	0.000	0.000	-44480.0	0.103
099 (SLE rare)	1	0.000	0.000	-44030.0	0.102
100 (SLE rare)	1	0.000	0.000	-44050.0	0.102
101 (SLE rare)	1	0.000	0.000	-44420.0	0.103
102 (SLE rare)	1	0.000	0.000	-43980.0	0.102
103 (SLE rare)	1	0.000	0.000	-43960.0	0.102
104 (SLE rare)	1	0.000	0.000	-44480.0	0.103
105 (SLE rare)	1	0.000	0.000	-44030.0	0.102
106 (SLE rare)	1	0.000	0.000	-44050.0	0.102
107 (SLE freq)	1	0.000	0.000	-43740.0	0.101
108 (SLE freq)	1	0.000	0.000	-43560.0	0.101
109 (SLE freq)	1	0.000	0.000	-43550.0	0.101
110 (SLE freq)	1	0.000	0.000	-43570.0	0.101
111 (SLE freq)	1	0.000	0.000	-43550.0	0.101
112 (SLE freq)	1	0.000	0.000	-43570.0	0.101
113 (SLE q.p.)	1	0.000	0.000	-43560.0	0.101

Elemento: 477 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-23190.0	0.054
094 (SLE rare)	1	0.000	0.000	-22740.0	0.053
095 (SLE rare)	1	0.000	0.000	-23160.0	0.054
096 (SLE rare)	1	0.000	0.000	-22690.0	0.053
097 (SLE rare)	1	0.000	0.000	-22710.0	0.053
098 (SLE rare)	1	0.000	0.000	-23220.0	0.054
099 (SLE rare)	1	0.000	0.000	-22770.0	0.053
100 (SLE rare)	1	0.000	0.000	-22790.0	0.053
101 (SLE rare)	1	0.000	0.000	-23160.0	0.054



102 (SLE rare)	1	0.000	0.000	-22710.0	0.053
103 (SLE rare)	1	0.000	0.000	-22690.0	0.053
104 (SLE rare)	1	0.000	0.000	-23220.0	0.054
105 (SLE rare)	1	0.000	0.000	-22770.0	0.053
106 (SLE rare)	1	0.000	0.000	-22790.0	0.053
107 (SLE freq)	1	0.000	0.000	-22470.0	0.052
108 (SLE freq)	1	0.000	0.000	-22290.0	0.052
109 (SLE freq)	1	0.000	0.000	-22280.0	0.052
110 (SLE freq)	1	0.000	0.000	-22300.0	0.052
111 (SLE freq)	1	0.000	0.000	-22280.0	0.052
112 (SLE freq)	1	0.000	0.000	-22300.0	0.052
113 (SLE q.p.)	1	0.000	0.000	-22290.0	0.052

Elemento: 533 - Palo singolo

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	cm	cm	daN	cm
093 (SLE rare)	1	0.000	0.000	-82480.0	0.191
094 (SLE rare)	1	0.000	0.000	-82030.0	0.190
095 (SLE rare)	1	0.000	0.000	-82450.0	0.191
096 (SLE rare)	1	0.000	0.000	-81980.0	0.190
097 (SLE rare)	1	0.000	0.000	-82000.0	0.190
098 (SLE rare)	1	0.000	0.000	-82510.0	0.191
099 (SLE rare)	1	0.000	0.000	-82060.0	0.190
100 (SLE rare)	1	0.000	0.000	-82080.0	0.190
101 (SLE rare)	1	0.000	0.000	-82450.0	0.191
102 (SLE rare)	1	0.000	0.000	-82000.0	0.190
103 (SLE rare)	1	0.000	0.000	-81980.0	0.190
104 (SLE rare)	1	0.000	0.000	-82510.0	0.191
105 (SLE rare)	1	0.000	0.000	-82060.0	0.190
106 (SLE rare)	1	0.000	0.000	-82080.0	0.190
107 (SLE freq)	1	0.000	0.000	-81760.0	0.190
108 (SLE freq)	1	0.000	0.000	-81580.0	0.189
109 (SLE freq)	1	0.000	0.000	-81570.0	0.189
110 (SLE freq)	1	0.000	0.000	-81590.0	0.189
111 (SLE freq)	1	0.000	0.000	-81570.0	0.189
112 (SLE freq)	1	0.000	0.000	-81590.0	0.189
113 (SLE q.p.)	1	0.000	0.000	-81580.0	0.189

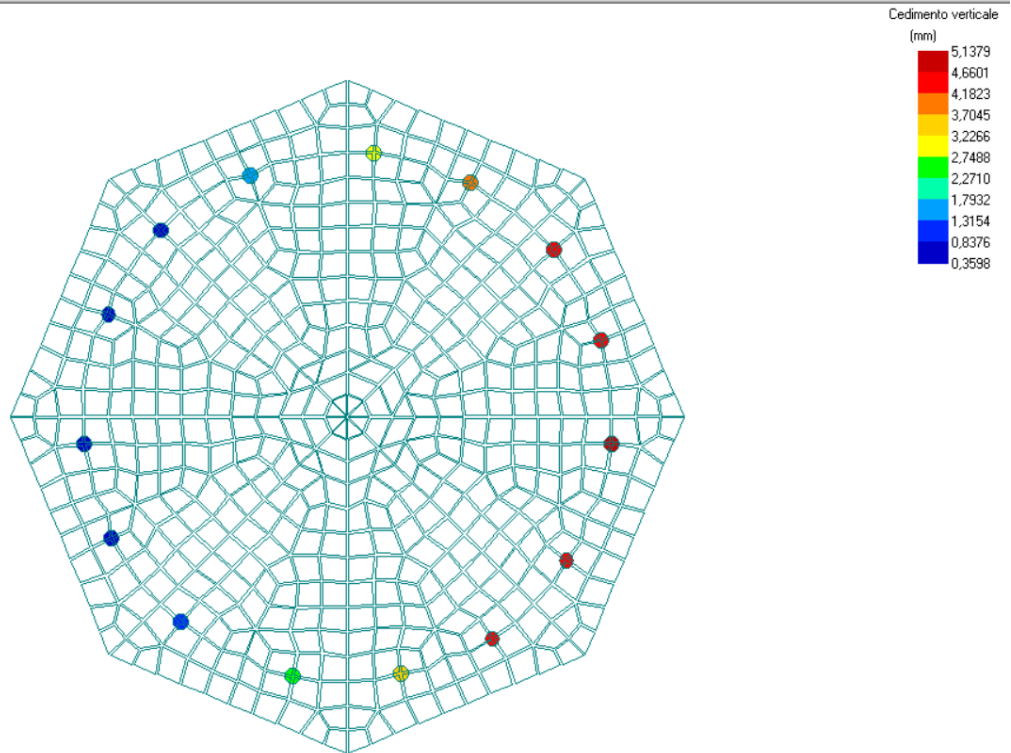


Figura 11: Cedimenti verticali.

Il tecnico
Ing. Leonardo Sblendido