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AMPLIAMENTO ALLA TERZA CORSIA  
DEL TRATTO RIMINI NORD-PEDASO

TRATTO: SENIGALLIA - ANCONA NORD

## PROGETTO ESECUTIVO


AU - CORPO AUTOSTRADALE

OPERE IN SOTTERRANEO

GALLERIA CAVALLO

GALLERIE ARTIFICIALI

RELAZIONE TECNICA E DI CALCOLO

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# **GALLERIA CAVALLO**

## **Gallerie artificiali**

### **Relazione Tecnica e di Calcolo**

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## 1. INTRODUZIONE

La presente relazione riporta le ipotesi di calcolo e le verifiche statiche relative alle tratte in artificiale della galleria Cavallo agli imbocchi lato Pedaso e lato Rimini, nell'ambito dei lavori di ampliamento a tre corsie del tratto Rimini Nord – Pedaso dell'Autostrada A14 Bologna-Bari-Taranto.

Il calcolo è stato condotto facendo riferimento a due configurazioni del terreno di ritombamento: il primo caso (CALCOLO I) è rappresentativo degli imbocchi con galleria artificiale confinata lateralmente dal terreno di ritombamento in maniera efficace su entrambi i lati; il secondo (CALCOLO II) considera la situazione agli imbocchi con galleria artificiale il cui confinamento laterale, dato dal terreno di ritombamento, può essere ritenuto efficace su tutta l'altezza su un lato e solo per la parte inferiore sull'altro lato: ne risulta quindi, in questo caso, una risposta asimmetrica della struttura. Per entrambi i casi si è considerata la condizione di ritombamento più gravosa.

L'inquadramento geologico-geotecnico dell'area in esame è discusso nell'apposito documento progettuale "Relazione Geotecnica-Geomeccanica Galleria Cavallo" (doc. TUN002).

L'area in esame è classificata in zona sismica di II categoria.

## 2. DOCUMENTI DI RIFERIMENTO

### 2.1 NORMATIVA

La presente relazione è stata redatta nel rispetto della Normativa in vigore e di alcune Raccomandazioni.

I principali riferimenti normativi sono i seguenti:

1. **D.M. LL.PP 11 Marzo 1988.** Norme tecniche riguardanti le indagini sui terreni e sulle rocce, i criteri generali e le prescrizioni per la progettazione, l'esecuzione ed il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
2. **Circ. LL.PP. 24 Settembre 1988 n. 30483.** Istruzioni riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione ed il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
3. **D.M. LL.PP. 14 Febbraio 1992.** Norme Tecniche per l'esecuzione delle opere in cemento armato normale o precompresso e per le strutture metalliche.
4. **D.M. LL.PP 09/01/1996.** Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche” e relative istruzioni (Circ. LL.PP. 15/10/96, n. 252).
5. **D.M. LL.PP 16/01/1996.** Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi» e relative istruzioni (Circ. LL.PP. 04/07/96, n. 156 AA.GG./STC);
6. **Ordinanza del Presidente del Consiglio dei ministri 20/03/03 n°3274** Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per la costruzione in zona sismica.

## 2.2 RIFERIMENTI BIBLIOGRAFICI

- J.E. Bowles (1991), *Fondazioni – Progetto e Analisi*, McGraw-Hill
- Jaky, J. (1944). The coefficient of earth pressure at-rest, Journal for Society of Hungarian Architects and Engineers, Budapest, Hungary, pp. 355-358.

## 2.3 SOFTWARE UTILIZZATO

- SAP2000, software agli elementi finiti con solutore a blocchi, Computer and Structures Inc. (Berkeley, CA).

## 3. CARATTERISTICHE DEI MATERIALI E DEGLI ELEMENTI UTILIZZATI

Le caratteristiche dei seguenti materiali e lavorazioni la cui applicazione è prevista nell'ambito del progetto, le loro specifiche tecniche e di messa in opera, si evincono dai disegni di progetto, dalle Norme Tecniche e dall'Elenco Prezzi.

### Calcestruzzo strutturale:

$$R_{ck} \geq 35 \text{ MPa}$$

$$E_c = \text{modulo di Young} = 33721 \text{ MPa}$$

$$\nu = \text{modulo di Poisson} = 0.2$$

$$\gamma_c = \text{peso di volume} = 25 \text{ KN/m}^3$$

### Acciaio:

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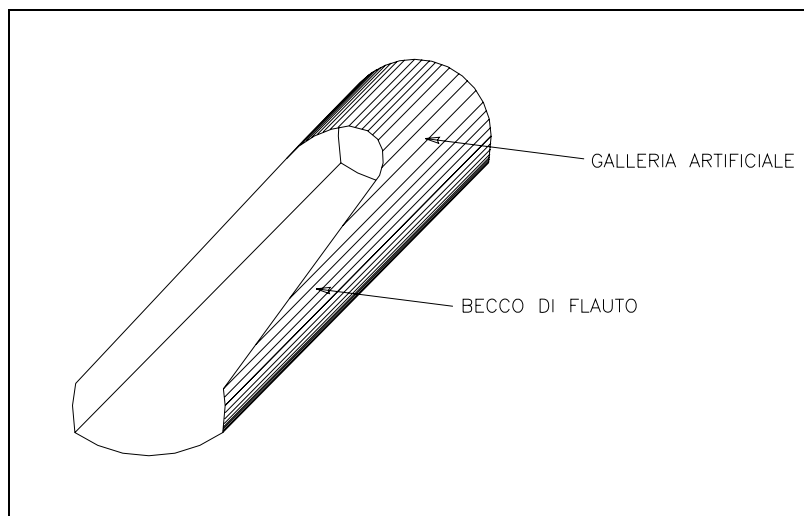
$$f_{yk} = 430 \text{ MPa}$$

$$E_f = 206000 \text{ MPa}$$

## 4. MODELLO DI COMPORTAMENTO DELLE OPERE IN PROGETTO

### 4.1 GENERALITÀ

La resistenza nel periodo di lungo termine alle spinte del terreno nelle zone d'imbocco risulta demandata a strutture a carattere permanente: la galleria artificiale ed il becco di flauto.



La galleria artificiale presenta una doppia funzione:

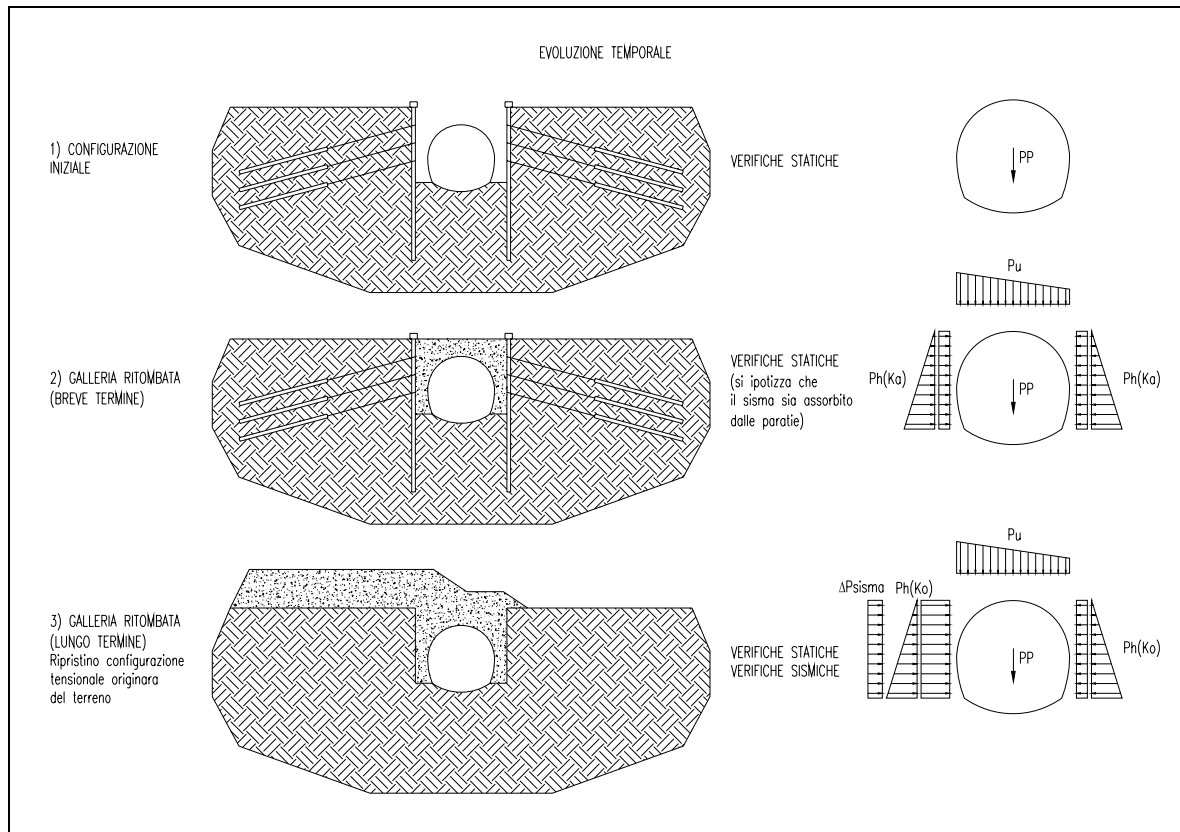
- statica, al fine di contenere la spinta laterale del terreno, nell'ipotesi cautelativa che nel tempo tutta la spinta delle terre non sia più assorbita dalla paratia in pali e dai tiranti ma, appunto, completamente da questa struttura;
- ambientale: tale elemento permette un ritombamento della porzione superiore, favorendo l'inserimento nel paesaggio circostante riportando tale zona ad una situazione simile a quella antecedente gli scavi. Questo, inoltre, determina un confinamento superiore della struttura, migliorandone il comportamento statico.

La struttura denominata becco di flauto ha lo scopo di sostenere la spinta del terreno laddove le altezze risultano inferiori ed inoltre, grazie alla conformazione prescelta, permette un migliore inserimento ambientale della zona d'imbocco, in quanto è stata geometrizzata seguendo l'andamento del pendio naturale.



## 4.2 CARICHI AGENTI E COMBINAZIONI DI CARICO

La definizione dei carichi agenti e la modalità applicativa di questi fanno riferimento ad una schematizzazione del comportamento della struttura secondo una sequenza progressiva come di seguito riportato.



In sintesi, la galleria artificiale attraversa 3 situazioni:

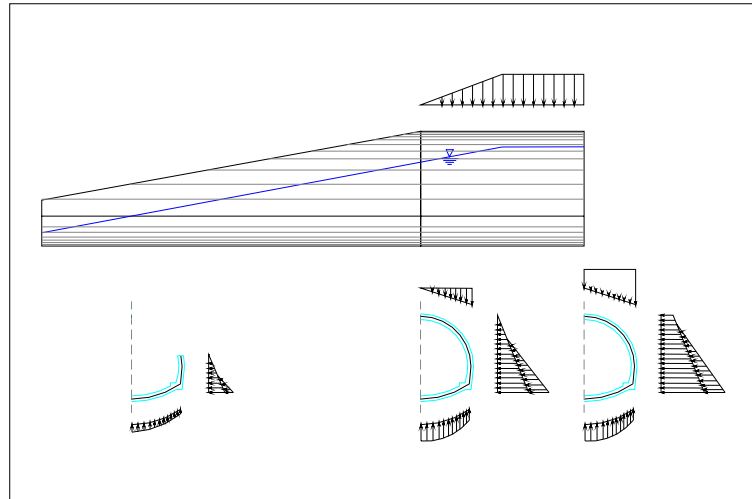
- 1) la **configurazione iniziale** corrisponde alla fase di realizzazione della galleria artificiale. Essa è caricata esclusivamente dal suo peso proprio;
- 2) successivamente la galleria viene **ritombata**. **A breve termine** si considerano ancora collaboranti le paratie che sopportano anche gli eventuali carichi sismici provenienti dal terreno. La galleria artificiale deve sostenere, oltre ovviamente al peso proprio, i carichi provenienti dal terreno di riporto; essi essenzialmente si distinguono in un carico verticale distribuito a diagramma triangolare funzione dell'altezza del ricoprimento sulla zona di calotta, due carichi orizzontali distribuiti funzione della spinta del terreno. Particolare

attenzione deve essere rivolta alla scelta del coefficiente di spinta del terreno. Nei casi in cui l'elemento resistente, in questo caso la galleria artificiale, può avere spostamenti significativi o comunque tali da mobilitare la spinta attiva si utilizza il coefficiente  $k_a$ , viceversa nei casi di spostamento impedito si deve usare il coefficiente  $k_0$ . A rigore, la galleria artificiale, in quanto caratterizzata da forma chiusa, ha per definizione spostamenti orizzontali impediti e quindi dovrebbe ricadere nel caso di applicazione della spinta a riposo  $k_0$ . Anche in virtù della presenza delle paratie, però, non è sempre possibile la definizione del classico cuneo di spinta, per cui ci si riconduce alla situazione di spinta attiva, condizione che verifica anche la possibilità di un trasferimento nel tempo, proprio di quella spinta attiva che le paratie sopportano verso l'artificiale. In tale finestra temporale, l'eventuale sisma risulta assorbito dalla paratia;

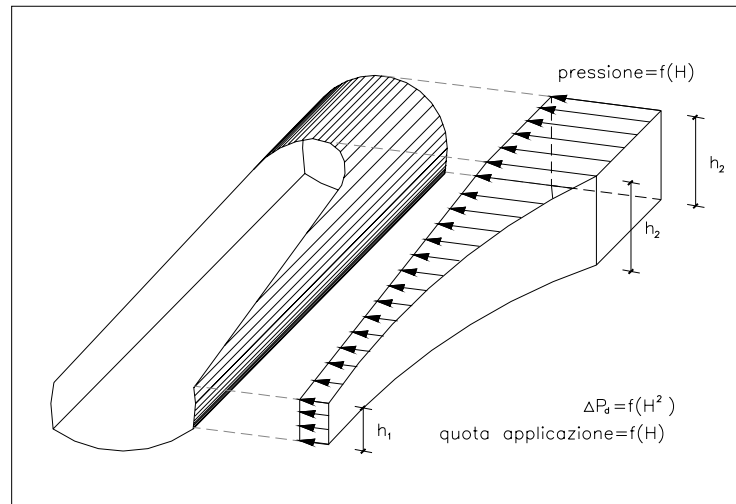
- 3) infine, **a lungo termine**, completato il ritombamento si ammette che le paratie non assolvano più la loro funzione statica, per cui si considera che la galleria artificiale, con la ricostituzione dello stato tensionale originario del terreno, sia assoggettata alla spinta del terreno calcolata con il coefficiente a riposo, con possibilità di presenza di un'azione sismica aggiuntiva.

La geometria della struttura della galleria artificiale ed il suo comportamento in campo tridimensionale forniscono una rigidità adeguata al fine di resistere alla spinta delle terre e delle azioni sismiche.

La schematizzazione di tali azioni è riportata di seguito.



**Figura 4-1 Azioni sulla struttura d’imbocco definitiva**



**Figura 4-2 Azioni sulla struttura d’imbocco definitiva: spinta del sisma**

Sono definite le seguenti tipologie di analisi e le corrispondenti azioni:

- statica: comprende i carichi gravitativi derivanti dal peso proprio della struttura, i carichi in calotta derivanti dal ricoprimento (con valori anche variabili in funzione dell’inclinazione trasversale) e dall’eventuale comunque accidentale previsto in superficie e i carichi laterali dovuti alla spinta delle terre e alla spinta idraulica.

La verifica viene condotta agli stati limite ultimo e di esercizio.

Le analisi prevedono le seguenti combinazioni di carico allo stato limite di esercizio (SLE):

$$R_{\text{stat-(ka)}} = P_V + P_{H(\text{ka})} + PP + Q$$

$$R_{\text{stat-(ko)}} = P_V + P_{H(\text{ko})} + PP + Q$$

dove:

$P_V$ : carichi verticali del terreno

$PP$ : peso proprio della struttura

$Q$ : sovraccarichi

$P_{H(\text{ka})}$  = spinta laterale orizzontale del terreno, nelle condizioni di spinta attiva

$P_{H(\text{ko})}$  = spinta laterale orizzontale del terreno, nelle condizioni di spinta a riposo

La verifica allo stato limite ultimo è condotta, secondo le approssimazioni comunemente effettuate, moltiplicando le sollecitazioni dell'analisi ai valori nominali per il coefficiente 1.4<sup>1</sup>

- sismica: in tale analisi i coefficienti sismici verticali e orizzontali sono:

$$K_h = \frac{S \cdot a_{\text{reg}}}{r \cdot g} \quad \text{con } r = 1$$

$$K_v = 0,5 \cdot K_h$$

ed alle precedente combinazione di azione vengono aggiunte le seguenti:

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<sup>1</sup> Secondo la modalità prevista, anche il coefficiente maggiorativo di  $Q$  risulta pari a 1.4, in luogo del valore di 1.5 da normativa. Si fa notare come questo influenzi in maniera trascurabile l'analisi, e come già il valore di tale parametro, ove esistente, risulti assegnato in maniera cautelativa.

- un'azione definita attraverso la relazione di normativa

$$E = \Delta P_g = k_h \cdot \gamma \cdot H^2$$

applicata lateralmente ad un solo lato della struttura e distribuita come pressione, per l'altezza di riferimento della struttura stessa, dove  $(S \cdot a_g)/g$  viene sostituito da  $k_h$ ,  $\gamma$  rappresenta il peso del terreno e  $H$  l'altezza della struttura misurata a partire dalla base della muretta sino alla quota dell'arco di calotta;

- il contributo verticale derivante dall'applicazione della componente verticale del sisma  $k_v$  sui carichi verticali del terreno:

$$P_v \cdot k_v;$$

- gli effetti di  $k_v$  sulle spinte orizzontali, in quanto la spinta orizzontale è conseguenza diretta (attraverso il coefficiente di spinta) della pressione verticale.

$$P_v \cdot k_v \cdot k_h;$$

- le azioni inerziali sul rivestimento della galleria dovute al contributo sismico:

$$PP \cdot k_v$$

$$PP \cdot k_h$$

Per le analisi in condizioni sismiche viene applicato il seguente schema di applicazione per le combinazioni rare, nel quale i contributi sismici vengono amplificati attraverso un coefficiente di importanza  $\gamma_I$ :

$$R_{\text{sism}(k_0)} = \gamma_I (E + PP \cdot k_v + PP \cdot k_h + P_v \cdot k_v + P_v \cdot k_v \cdot k_h) + (P_v + P_{H(k_0)} + PP)$$

dove:

$P_{H(k_0)}$  = spinta del terreno funzione del parametro  $\phi_k$

$\gamma_I$ : fattore di importanza (pari a 1.3);

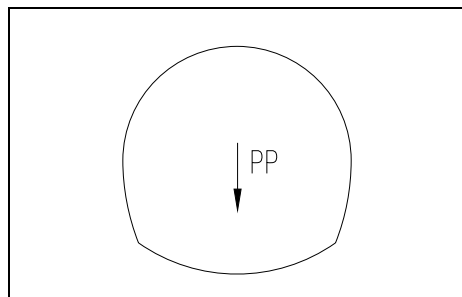
La verifica viene condotta al solo stato limite ultimo sulla base delle sollecitazioni risultanti dall'applicazione dei sistemi di forze descritti senza, dunque, ulteriori incrementi.

Tali tipologie di analisi dovranno essere contestualizzate secondo gli schemi di riferimento precedentemente riportati, da cui le combinazioni di carico illustrate.

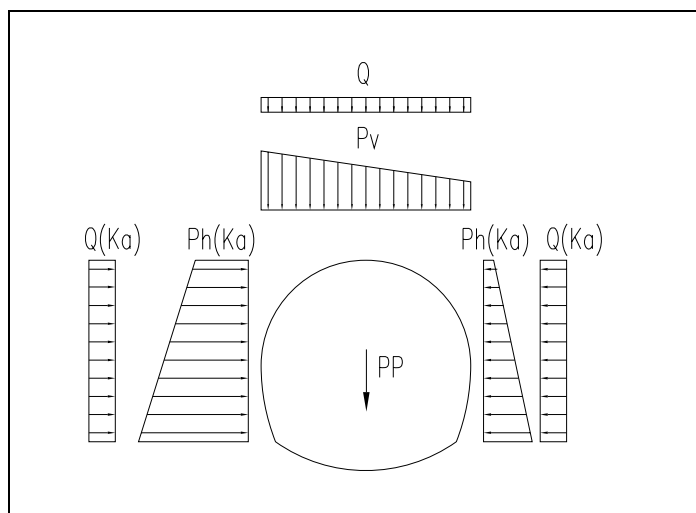
In funzione di quanto sopra riportato, si procederà nel calcolo della galleria artificiale secondo quanto riassunto nel seguito.

**1) Analisi statica:** analisi allo stato limite di esercizio (SLE), con le seguenti combinazioni di carico:

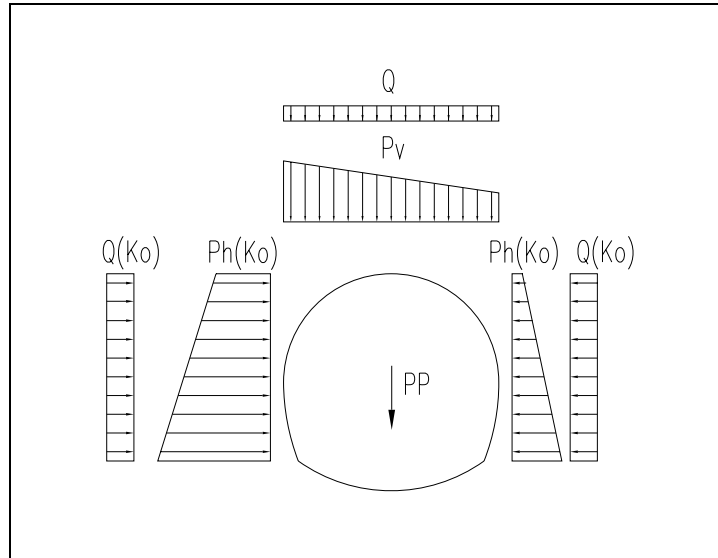
a)  $R_{stat} = PP$



b)  $R_{stat-(ka)} = P_V + P_{H(ka)} + PP + Q$



c)  $R_{stat-(ko)} = P_V + P_{H(ko)} + PP + Q$



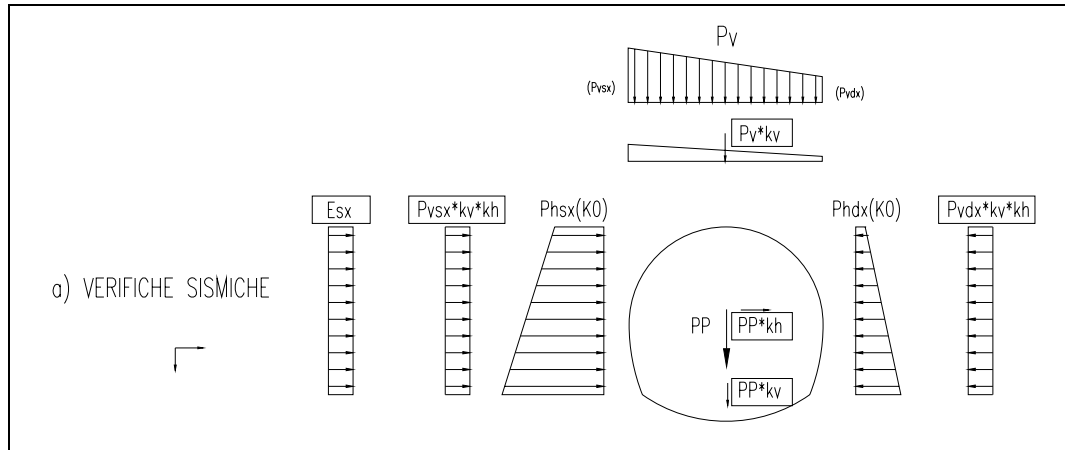
La verifica strutturale allo stato limite ultimo viene condotta moltiplicando le sollecitazioni dell'analisi ai valori nominali per il coefficiente 1.4

**2) Analisi sismica:** analisi al solo stato limite ultimo (SLU), con le combinazioni di carico di seguito riportate. La verifica strutturale allo stato limite ultimo viene condotta senza incremento delle sollecitazioni.

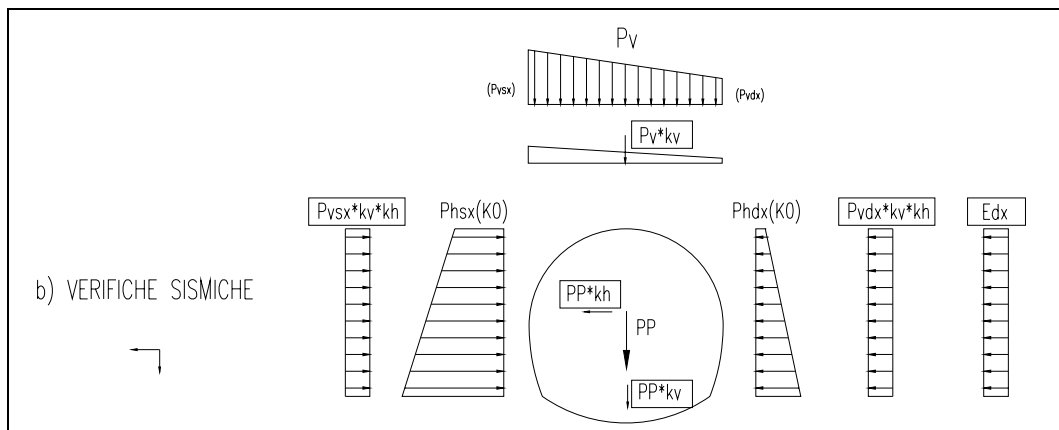
Convenzioni di segno:

- sisma dall'alto verso il basso: positivo (+)
- sisma dal basso verso l'alto: negativo (-)
- sisma da SX verso DX: positivo (+)
- azione sismica E diretta come il sisma;
- $(k_h * k_v * P_{v,sx})$  con segno positivo è l'incremento di spinta orizzontale dovuto all'azione del sisma verticale  $(K_v * P_v)$ , in compressione rispetto alla struttura diretta da SX verso DX;
- $(k_h * k_v * P_{v,dx})$  con segno positivo, quindi diretta da DX verso SX, in quanto incremento di spinta orizzontale in compressione dovuto all'azione del sisma verticale  $(K_v * P_v)$ ;
- $K_v * PP$ : diretta come il sisma verticale;
- $K_h * PP$ : diretta come il sisma orizzontale

a)  $R_{sism(k_0)} = \gamma_I [ +E_{sx} + k_v * P_v + (k_h * k_v * P_{vsx}) + (k_h * k_v * P_{vdx}) + k_v * PP + k_h * PP ] + [P_v + P_{H(k_0)} + PP];$

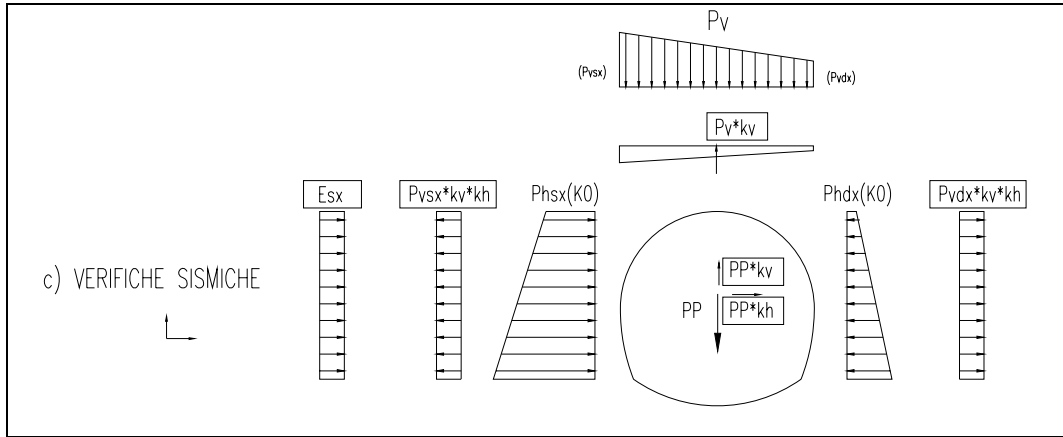


b)  $R_{sism(k_0)} = \gamma_I [ -E_{dx} + k_v * P_v + (k_h * k_v * P_{vsx}) + (k_h * k_v * P_{vdx}) + k_v * PP - k_h * PP ] + [P_v + P_{H(k_0)} + PP];$

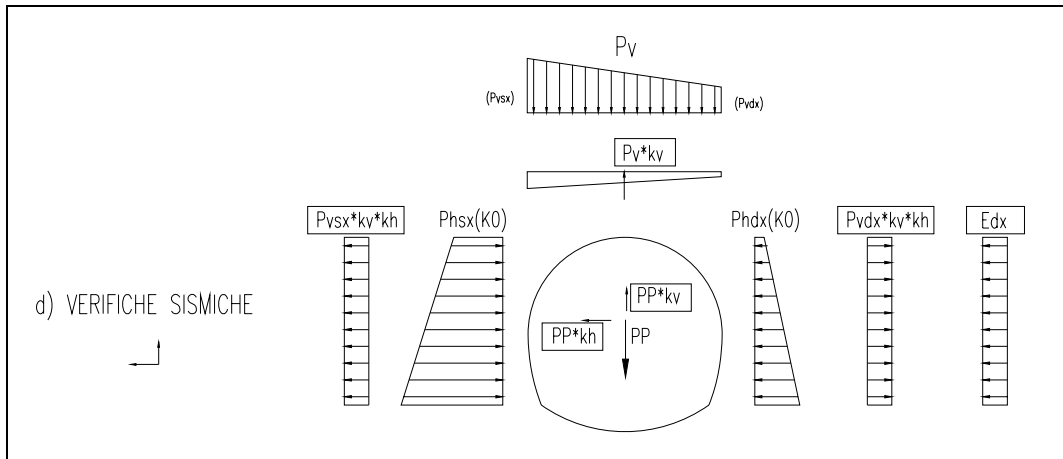




$$c) R_{sism(ko)} = \gamma_I [+ E_{sx} - k_v * P_v - (k_h * k_v * P_{vsx}) - (k_h * k_v * P_{vdx}) - k_v * PP + k_h * PP] + [P_v + P_{H(ko)} + PP];$$



$$d) R_{sism(ko)} = \gamma_I [-E_{dx} - k_v * P_v - (k_h * k_v * P_{vsx}) - (k_h * k_v * P_v dx) - k_v * PP - k_h * PP] + [P_v + P_{H(ko)} + PP];$$



## 5. MODELLO DI CALCOLO GALLERIA ARTIFICIALE

### 5.1 GENERALITÀ

Sulla base di quanto esposto, è stato realizzato un modello di calcolo in grado di simulare, con sufficiente adeguatezza, i fenomeni descritti ai paragrafi precedenti.

Il modello strutturale ha lo scopo di simulare la struttura, l'interazione fra questa e il terreno ed i carichi esterni gravanti sull'opera.

Per il calcolo delle azioni interne si adotta dunque un "metodo alle reazioni iperstatiche", dove le sollecitazioni e le deformazioni sono determinate per via numerica mediante il programma di calcolo. Il modello di calcolo prevede inizialmente la presenza di elementi spring reagenti sia a trazione che a compressione in corrispondenza di ogni nodo al contatto con il terreno; per ogni combinazione di carico si opera poi, per via iterativa, rimuovendo le molle che reagiscono a trazione e lasciando invariate le molle che reagiscono a compressione, simulando correttamente l'interazione struttura-terreno.

Il calcolo considera un tratto di galleria avente profondità unitaria (1m); viene quindi definito un modello della sezione schematizzando la struttura in conci monodimensionali (elementi beam o frame).

### 5.2 PARAMETRI GEOTECNICI

Con riferimento alla relazione geotecnica, per le verifiche statiche della galleria artificiale sono stati utilizzati i seguenti valori dei parametri geotecnici di interesse:

#### Terreno di ritombamento:

peso di volume	$\gamma = 20 \text{ kN/m}^3$
coesione	$c' = 0 \text{ kPa}$
angolo d'attrito	$\phi' = 35^\circ$

modulo di deformabilità  $E' = 50 \text{ MPa}$

Terreno di sottofondo:

peso di volume  $\gamma = 25 \text{ kN/m}^3$

modulo di deformabilità  $E = 110 \text{ MPa}$

### 5.3 SISMICITÀ DELL'AREA

Per quanto riguarda l'analisi statica della galleria artificiale in condizioni sismiche, il calcolo viene svolto con il procedimento pseudo-statico, in cui l'azione sismica è rappresentata da un insieme di forze statiche orizzontali e verticali date dal prodotto delle forze di gravità per un coefficiente sismico, come previsto dall'Ordinanza Ministeriale n°3274 e successive modificazioni.

Per la galleria artificiale i coefficienti sismici orizzontale ( $k_h$ ) e verticale ( $k_v$ ) che interessano tutte le masse risultano calcolati come di seguito:

$$k_h = S \cdot (a_g / g) / r = 0.236$$

$$k_v = 0,5 \cdot k_h = 0.118$$

dove:

$S$  = fattore che tiene conto del profilo stratigrafico del terreno di fondazione=1.25;

$a_g$  = accelerazione orizzontale massima =0.189;

$r$  = è il rapporto tra l'accelerazione che determina il massimo spostamento permanente compatibile con i vincoli e l'accelerazione corrispondente alla condizione di equilibrio limite per spostamento incipiente.

In tale ambito, il coefficiente d'importanza  $\gamma_I$  (moltiplicatore aggiuntivo delle spinte sismiche) assume valore pari a 1.3, come previsto per le opere di pertinenza

autostradale che per loro dimensione e tipologia risultano critiche per la funzionalità dell'infrastruttura ai fini della Protezione Civile.

## **5.4 DESCRIZIONE MODELLO DI CALCOLO**

### **5.4.1 Programma di calcolo utilizzato**

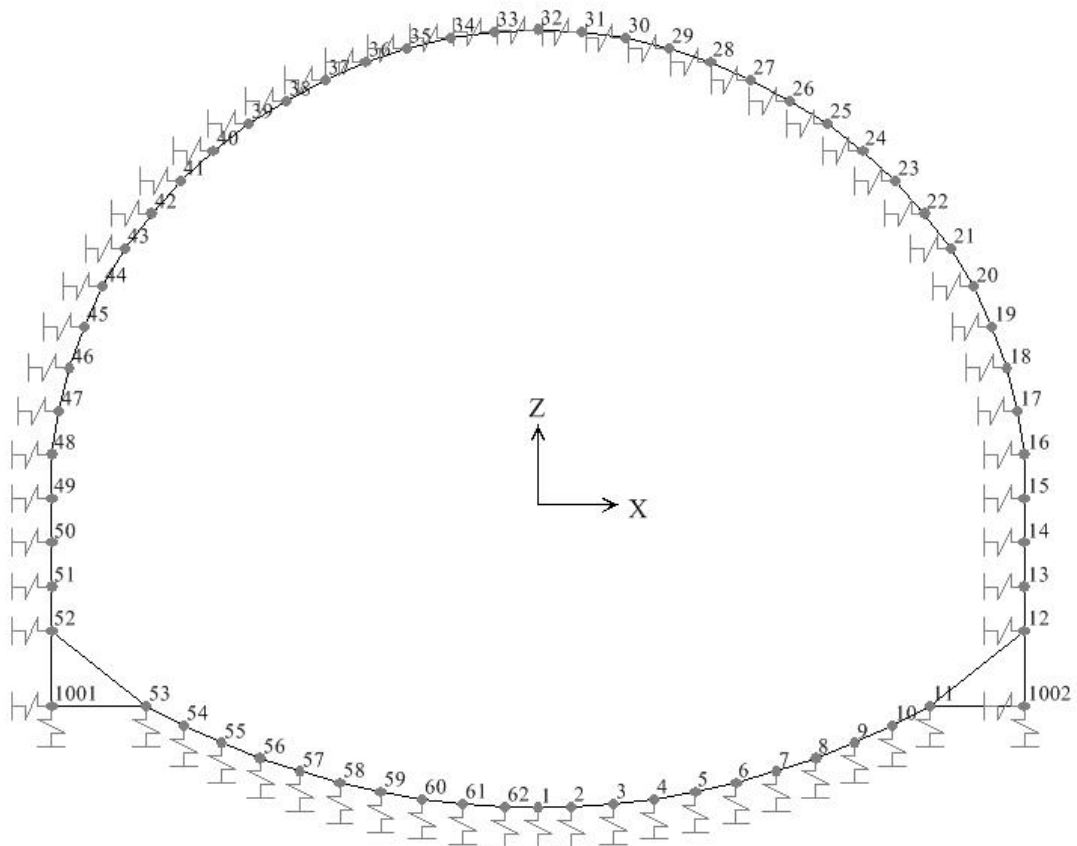
Il software utilizzato nella modellazione numerica risulta SAP2000, prodotto dalla C.S.I. dell'università di Berkeley.

Detto software è un solutore ad elementi finiti (metodo degli spostamenti); assemblata la matrice di rigidezza globale del sistema e note le forze presenti, la soluzione del sistema viene raggiunta attraverso un algoritmo di risoluzione di equazioni a blocchi.

Noti gli spostamenti di ogni nodo della struttura (riferiti ad un sistema di coordinate globale), si risale allo spostamento locale di ogni nodo (passando per la matrice di rototraslazione locale di ogni elemento) e quindi successivamente alle azioni assiali, flessionali e taglienti nell'elemento (moltiplicando gli spostamenti all'estremità di ogni elemento per la sua matrice di rigidezza locale).

### **5.4.2 Schema geometrico del modello di calcolo**

Il modello di calcolo è schematizzato attraverso 64 nodi (66 elementi *beam/frame*) distanti mediamente 0.75m circa. La numerazioni degli stessi è riportata in Figura.



Si è ipotizzato uno spessore delle varie aste costante (calotta, piedritto, arco rovescio) e pari a 1.0 m, aggiungendo per la zona di maggior rigidezza (muretta) un elemento trasversale di collegamento, che simula il differente trasferimento degli sforzi e lo spessore maggiormente elevato.

Cautelativamente e per semplicità di calcolo, è stata trascurata la zona di rinforzo in corrispondenza delle reni della galleria artificiale.

### 5.4.3 Vincoli elastici

Per simulare l'interazione tra il terreno e la struttura vengono introdotti degli elementi elastici (molle) in corrispondenza dei nodi strutturali; la rigidità delle molle dipende dalle proprietà elastiche del terreno e dalle dimensioni strutturali degli elementi collegati al nodo.

In presenza di elementi curvi (calotta ed arco rovescio), la rigidezza del terreno è calcolata secondo la formula di Galerkin:

$$K = \frac{E}{(1 + \nu) \times R_{eq}} \quad [F/L^3]$$

essendo:

$E$  = modulo di deformabilità del terreno

$\nu$  = coefficiente di Poisson del terreno

$R_{eq}$  = raggio di curvatura equivalente.

Per le molle orizzontali di calotta (nodi 16-48) e verticali dell'arco rovescio (nodi 54-10) si assumono rispettivamente:

$E = 50 \text{ MPa}$

$\nu = 0.25$

$R_{eq} = 8.41 \text{ m}$

$E = 110 \text{ MPa}$

$\nu = 0.25$

$R_{eq} = 13.95 \text{ m}$

Per il calcolo delle molle orizzontali situate sui piedritti, elementi rettilinei (nodi 1002-15 e 49-1001), è stata impiegata la formulazione di Bowles:

$$k = A + B \cdot z^n$$

$$A = C \cdot (c \cdot N_c \cdot s_c + 0.5 \cdot \gamma \cdot b \cdot N_\gamma \cdot s_\gamma)$$

$$B = C \cdot (\gamma \cdot N_q \cdot s_q)$$

Dove i fattori correttivi risultano pari a quelli impiegati per il calcolo della capacità portante delle fondazioni, mentre  $C=40$  (costante, valida per unità del S.I.) ed  $n=0,1$ .

I parametri geomeccanici inseriti nella formulazione sono riferiti al terreno di ritombamento.

Per il calcolo delle molle verticali situate sul piano di imposta murette (nodi 11, 1002, 53, 1001) è stata impiegata la formulazione di Bousinesq:

$$k = \frac{E}{B \cdot (1 - \nu^2) \cdot I_w} \quad [F/L^3]$$

Dove:

$E$  = modulo di deformabilità del terreno = 110 MPa

$\nu$  = coefficiente di Poisson del terreno = 0.25

$I_w$  = coefficiente di forma = 2.25

$B$  = base della fondazione = 1.6 m

La rigidezza dei supporti da inserire nel modello di calcolo è quindi data dal prodotto della rigidezza del terreno per l'area d'influenza dei supporti.

Nel CALCOLO II, per tener conto della non efficace azione di confinamento esercitata dal terreno di ritombamento, sulla parte superiore della galleria artificiale, sono stati eliminati gli elementi spring sui nodi dal 16 al 31.

## **5.5 CARICHI AGENTI SULLA GALLERIA ARTIFICIALE**

Per la verifica della galleria artificiale si è considerata la sezione d'imbocco maggiormente gravosa, rappresentativa delle due situazioni considerate.

Nel CALCOLO I si è considerata una copertura variabile da circa 5.5 m (lato sinistro) a circa 4.5m (lato destro); nel CALCOLO II si è considerata, cautelativamente, una copertura, variabile da circa 4.5 m (lato sinistro) a circa 3.5m (lato destro), superiore a quella riscontrabile negli imbocchi, allo scopo di avere un più ampio margine di sicurezza in una condizione di confinamento asimmetrico.

L'eventuale falda si considera opportunamente drenata, e quindi non sono inserite nel calcolo le sovrappressioni idrauliche.

Il sovraccarico accidentale è posto pari a 20kPa.

Di seguito si riporta una tabella riassuntiva contenente le diverse combinazioni di carico analizzate.



Combinazione di carico	Forze agenti	Tipo analisi	
		SLE	SLU
COMB1	PP	SI	SI
COMB2	$P_V + P_{H(ka)} + PP + Q$	SI	SI
COMB3	$P_V + P_{H(ko)} + PP + Q$	SI	SI
COMB4	$\gamma_l [ +E_{sx} + k_v * P_v + (k_h * k_v * P_v sx) + (k_h * k_v * P_v dx) + k_v * PP + k_h * PP ] + [P_V + P_{H(ko)} + PP]$	-	SI
COMB5	$\gamma_l [ -E_{dx} + k_v * P_v + (k_h * k_v * P_v sx) + (k_h * k_v * P_v dx) + k_v * PP - k_h * PP ] + [P_V + P_{H(ko)} + PP];$	-	SI
COMB6	$\gamma_l [ E_{sx} - k_v * P_v - (k_h * k_v * P_v sx) - (k_h * k_v * P_v dx) - k_v * PP + k_h * PP ] + [P_V + P_{H(ko)} + PP];$	-	SI
COMB7	$\gamma_l [ -E_{dx} - k_v * P_v - (k_h * k_v * P_v sx) - (k_h * k_v * P_v dx) - k_v * PP - k_h * PP ] + [P_V + P_{H(ko)} + PP];$	-	SI

## 6. MODELLO DI CALCOLO BECCO DI FLAUTO

### 6.1 GENERALITÀ

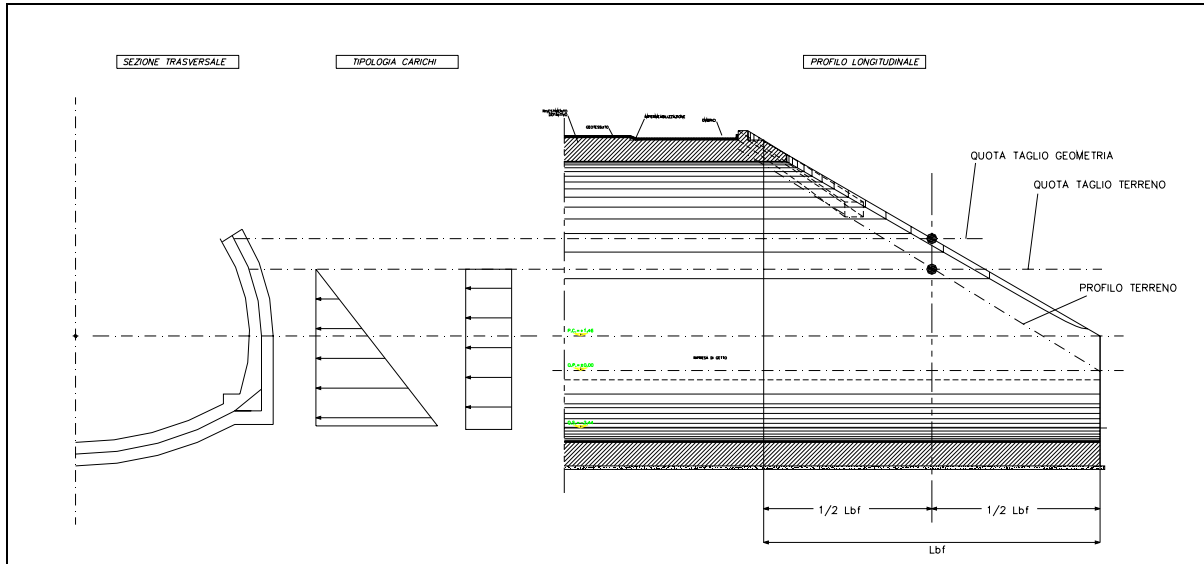
In analogia a quanto precedentemente descritto, la simulazione del comportamento della porzione di struttura frontale dell'imbocco (becco di flauto) viene effettuata attraverso lo studio dell'interazione fra questa e il terreno ed i carichi esterni gravanti sull'opera.

Relativamente alla descrizione del programma di calcolo e dei valori delle rigidità delle molle simulanti l'interazione del terreno si rimanda ai paragrafi precedenti.

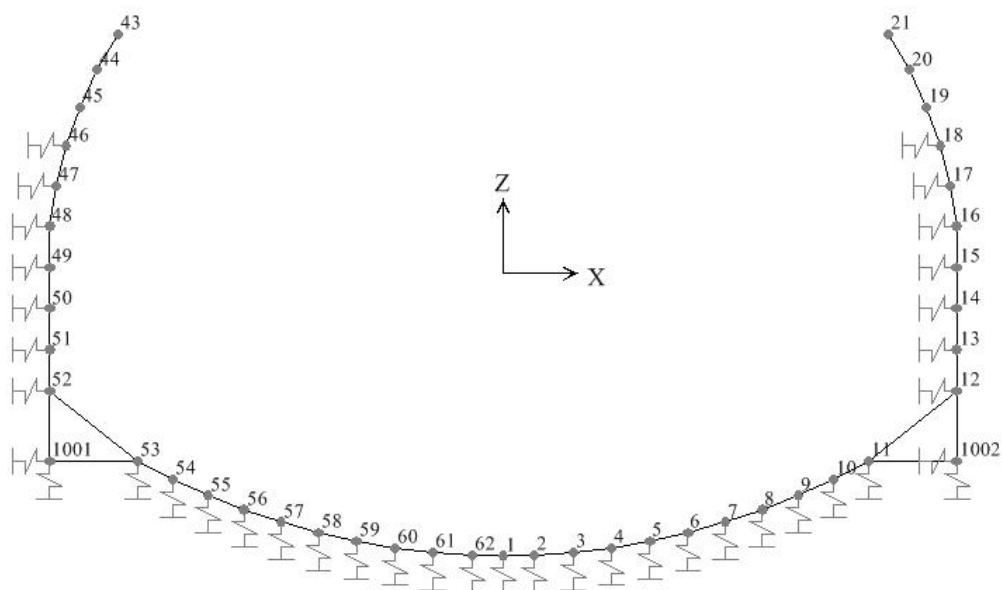
### 6.2 SCHEMA GEOMETRICO DEL MODELLO ANALIZZATO

Per la verifica della struttura del becco di flauto si è cautelativamente presa in considerazione la sezione trasversale situata ad una distanza pari alla metà della lunghezza della struttura stessa.

In tal modo viene considerato predominante il comportamento “a mensola” della struttura, trascurando cautelativamente gli effetti complessivi della geometria dell’opera, la cui tridimensionalità porta un benefico effetto sulla ripartizione degli sforzi.



Il modello di calcolo è schematizzato attraverso 43 nodi (44 elementi *beam/frame*) distanti mediamente 0.75m circa. La numerazione degli stessi è riportata di seguito.



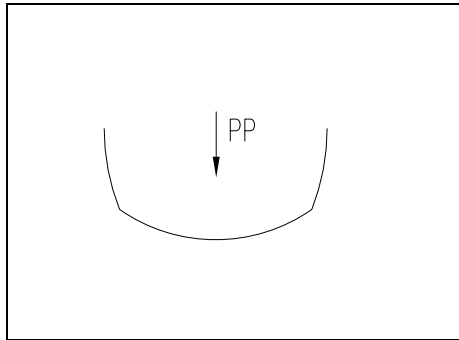
### 6.3 CARICHI AGENTI SUL BECCO DI FLAUTO

In ragione delle modificate condizioni geometriche, i carichi gravanti vengono a subire una modificazione ed anche una semplificazione.

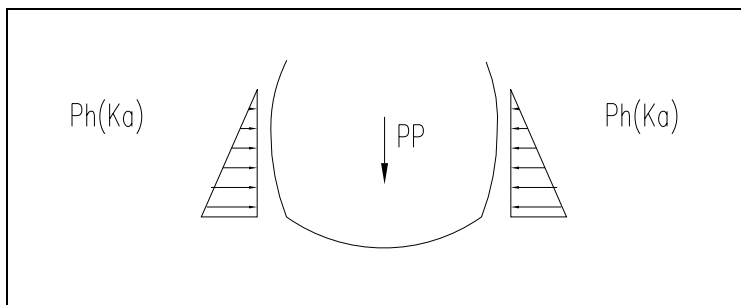
Vengono, sulla base della simbologia ai capitoli precedenti, identificate le condizioni di carico maggiormente rappresentative per la struttura.

**1) Analisi statica:** analisi allo stato limite di esercizio (SLE), con le seguenti combinazioni di carico:

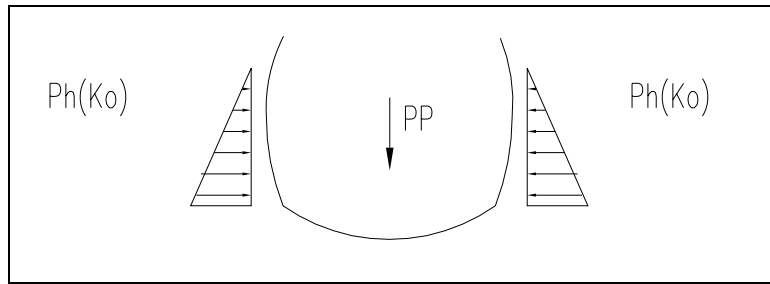
a)  $R_{stat} = PP$



b)  $R_{stat-(ka)} = P_{H(ka)} + PP$



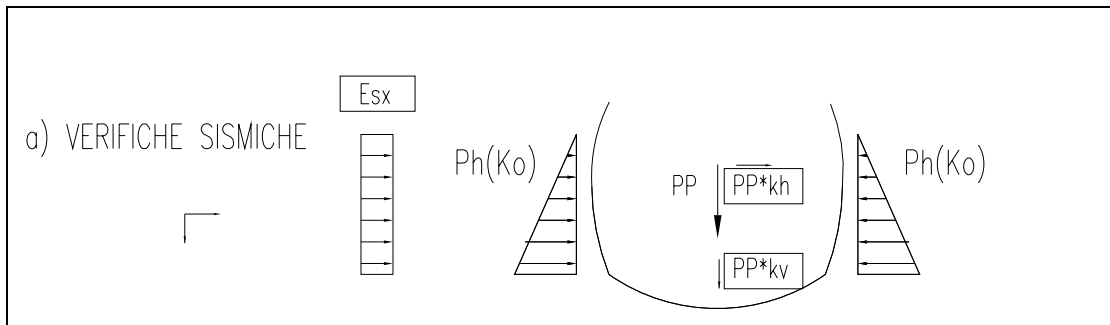
c)  $R_{stat-(ko)} = P_{H(ko)} + PP$



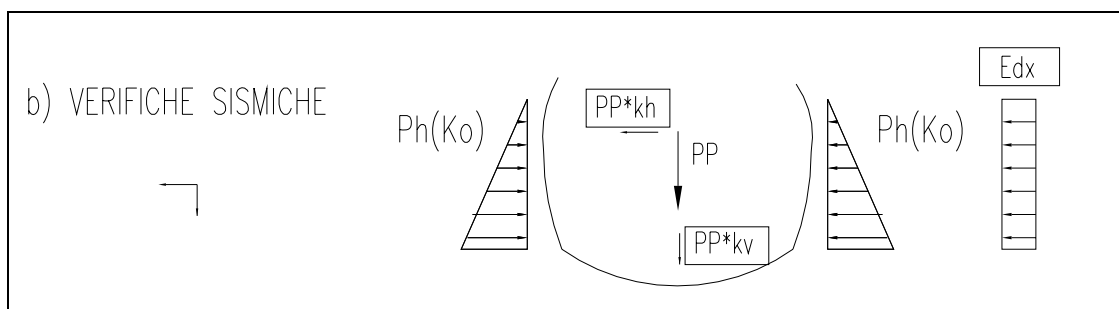
La verifica strutturale allo stato limite ultimo viene condotta moltiplicando le sollecitazioni dell'analisi ai valori nominali per il coefficiente 1.4.

**2) Analisi sismica:** analisi al solo stato limite ultimo (SLU), con le combinazioni di carico di seguito riportate. La verifica strutturale allo stato limite ultimo viene condotta senza incremento delle sollecitazioni.

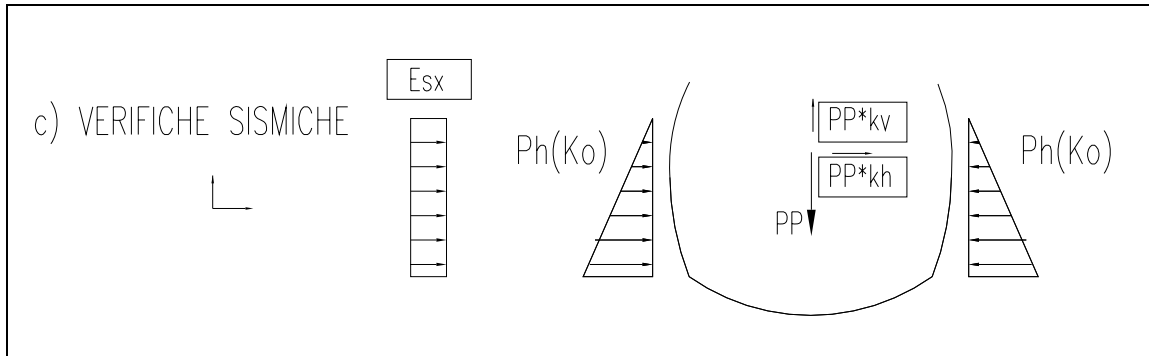
a)  $R_{sism(ko)} = \gamma_I [ +E_{sx} + k_v * PP + k_h * PP ] + [ P_{H(ko)} + PP ]$



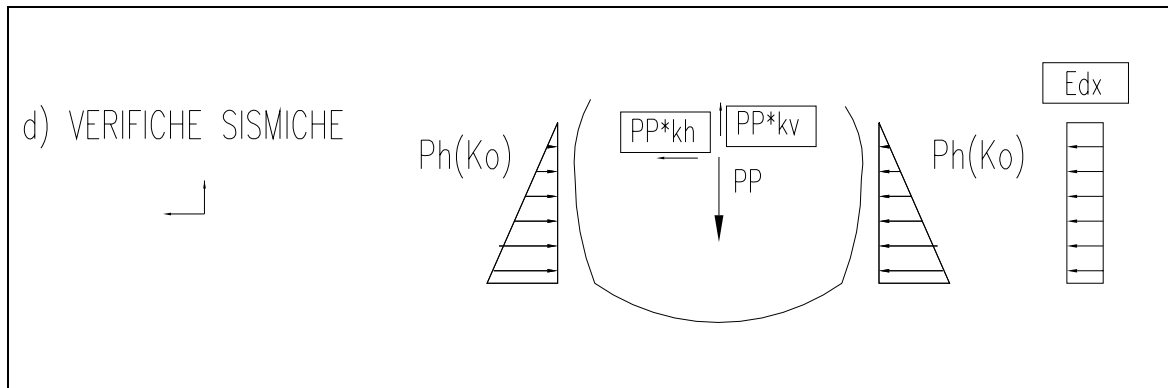
b)  $R_{sism(ko)} = \gamma_I [ -E_{dx} + k_v * PP - k_h * PP ] + [ P_{H(ko)} + PP ]$



$$c) R_{sism(ko)} = \gamma_I [ E_{sx} - k_v * PP + k_h * PP ] + [ P_{H(ko)} + PP ]$$



$$d) R_{sism(ko)} = \gamma_I [ -E_{dx} - k_v * PP - k_h * PP ] + [ P_{H(ko)} + PP ]$$



Di seguito si riporta una tabella riassuntiva contenente le diverse combinazioni di carico analizzate.

Combinazione di carico	Forze agenti	Tipo analisi	
		SLE	SLU
COMB1	PP	SI	SI
COMB2	$P_{H(ka)} + PP$	SI	SI
COMB3	$P_{H(ko)} + PP$	SI	SI
COMB4	$\gamma_I [ +E_{sx} + k_v * PP + k_h * PP ] + [ P_{H(ko)} + PP ]$	-	SI
COMB5	$\gamma_I [ -E_{dx} + k_v * PP - k_h * PP ] + [ P_{H(ko)} + PP ]$ ;	-	SI
COMB6	$\gamma_I [ E_{sx} - k_v * PP + k_h * PP ] + [ P_{H(ko)} + PP ]$ ;	-	SI
COMB7	$\gamma_I [ -E_{dx} - k_v * PP - k_h * PP ] + [ P_{H(ko)} + PP ]$ ;	-	SI

## 7. VERIFICHE STRUTTURALI

La galleria artificiale è realizzata in calcestruzzo armato ordinario, con conglomerato cementizio di classe  $R_{ck}=35$  MPa e barre di tipo FeB 44 K ad adherenza migliorata.

I ferri utilizzati per l'armatura principale della galleria artificiale e del becco di flauto sono riassunti in tabella, e risultano rispettare il vincolo di armatura minima.

<b>FERRI ARMATURA PRINCIPALE GA</b>		
	Intradosso	Estradosso
Arco rovescio	Φ26/20	Φ26/20
Muretta	Φ26/20	Φ26/20
Piedritti	Φ26/20	Φ26/20
Reni	Φ26/20	Φ26/20
Calotta	Φ26/20	Φ26/20

<b>FERRI ARMATURA PRINCIPALE BF</b>		
	Intradosso	Estradosso
Arco rovescio	Φ26/25	Φ26/25
Muretta	Φ26/25	Φ26/25
Piedritti	Φ26/25	Φ26/25

I ferri ripartitori sono costituiti da  $\phi 16/30$  cm. Tutte le armature si intendono passanti alle riprese di getto.

In allegato sono riportati, relativamente al CALCOLO I e al CALCOLO II, i diagrammi delle azioni interne (N, T e M) dovuti alle combinazioni di carico di galleria, descritte in precedenza, e i tabulati di calcolo.

Le verifiche sono state eseguite, per ogni combinazione di carico, secondo il Metodo degli stati limite, con riferimento alle più recenti normative relative al calcolo delle strutture in c.a. per uso civile ed industriale, su ciascun elemento monodimensionale (*elemento beam/frame*) che schematizza la struttura.

Il calcolo per la galleria artificiale mostra la necessità di una specifica armatura a taglio necessaria all'assorbimento degli sforzi taglienti nella zona di piedritto. A tal fine si considerano idonei all'assorbimento di tali sforzi gli spilli  $\phi 16/30\text{cm} \times 40\text{cm}$  disposti su tutta la struttura.

## **7.1 CRITERI DI VERIFICA AGLI STATI LIMITE**

### **7.1.1 Verifica a pressoflessione**

Le verifiche vengono svolte secondo il metodo semiprobabilistico agli stati limite, con riferimento alle modalità di seguito riportate.

#### Verifica allo stato limite ultimo

Per la verifica allo stato limite ultimo viene utilizzata la seguente combinazione di azioni:

- per analisi in condizioni sismiche, in quanto le azioni prese in conto (peso proprio struttura, sovrastruttura, forze indotte dalla pressione del terreno) risultano classificate come permanenti (G):

$$R = \gamma_l E + G_k$$

- per analisi in condizioni statiche, la verifica allo stato limite ultimo viene condotta attraverso la definizione delle seguenti sollecitazioni di progetto:

$$N_d = 1.4 * N$$

$$M_d = 1.4 * M$$

dove N ed M sono le sollecitazioni derivanti dalle analisi numeriche nelle condizioni nominali di carico (SLE).

La resistenza di calcolo del calcestruzzo è definita attraverso la relazione:

$$f_{cd} = R_{ck} / \gamma_{m,c}$$

dove il coefficiente parziale di sicurezza del conglomerato cementizio ( $\gamma_{m,c}$ ) è pari a 1.9.

Per le sezioni strutturali esaminate è stato definito il dominio di rottura, frontiera della superficie di plasticizzazione per assegnate caratteristiche geometriche e di resistenza dei materiali, in modo da poter verificare che la coppia ordinata ( $\mathbf{N}_d$ ,  $\mathbf{M}_d$ ), rappresentativa dello stato di sollecitazione riferita alla singola combinazione di carico, non violi il criterio di rottura.

Si verificherà che le sollecitazioni di calcolo risultino interne al dominio di resistenza di progetto delle sezioni strutturali, cioè che risulti un coefficiente di sicurezza  $F_s \geq 1$ .

#### Verifica allo stato limite di esercizio

La verifica allo stato limite di esercizio viene condotta per le sole analisi in condizioni statiche, calcolando le tensioni massime sul rivestimento a partire dai valori nominali ottenuti dalla analisi e confrontando queste con quelle ammissibili definite attraverso le relazioni:

$$\sigma_c \leq R_{ck} / (\gamma_{m,c} \gamma_{m,E}) = R_{ck} / (1.5 \times 1.9) \text{ (combinazione quasi permanente)}$$

$$\sigma_s \leq f_{yk} / 1.25$$

Nel caso in cui la tensione agente sull'elemento sia superiore a 160 MPa, è necessario svolgere la verifica a fessurazione secondo il D.M.L.P. 09/01/96. Secondo tale normativa, in funzione della classe di esposizione si ritengono



accettabili aperture fessurative minori di 0.2 mm. In questo caso poichè il copriferro è pari a 5 cm > 1.5\*c<sub>min</sub> (con c<sub>min</sub> = 2.5 cm) , è ammesso un aumento del limite di apertura delle fessure. Il limite di apertura w<sub>k</sub> sarà pari a 0.2\*1.5 = 0.3 mm.

La verifica è stata effettuata applicando le combinazioni SLE (quasi permanenti) di carico, ovvero non considerando il sisma e moltiplicando i carichi permanenti per un fattore amplificativo  $\gamma_g = 1$ .

Si considera quindi:

$$M_f II = W_i * f_{cfm}$$

dove:

$$f_{cfm} = 0.7 * 0.27 (Rck)^{2/3} \quad (N/mm^2)$$

L'apertura delle fessure vale:

$$w_k = 1.7 * w_m = 1.7 * s_{rm} * \epsilon_{sm}$$

con:

$$s_{rm} = 2(c+s/10) + k_2 k_3 \Phi / \rho_r$$

$$\epsilon_{sm} = \sigma_s / E_s (1 - \beta_1 \beta_2 (\sigma_{sr} / \sigma_s)^2)$$

dove:

$$c = 50 \text{ mm}$$

copriferro netto armatura tesa

$$s = 200 \text{ mm}$$

interasse tra i ferri

$$k_2 = 0.4$$

per barre ad aderenza migliorata

$$k_3 = 0.125$$

per diagramma delle s triangolare, dovuto a flessione o pressoflessione

$\Phi = 26 \text{ mm}$	diametro delle barre
$\rho_r =$	$A_s/A_{c \text{ eff}}$
$\sigma_s =$	tensione dell'acciaio calcolata nella sezione fessurata per la combinazione di azioni considerata
$\sigma_{sr} =$	tensione dell'acciaio calcolata nella sezione fessurata per la sollecitazione corrispondente al raggiungimento della resistenza a trazione $f_{ctm}$ nella fibra di calcestruzzo più sollecitata nella sezione interamente reagente.
$\beta_1 = 1$	per barre ad aderenza migliorata
$\beta_2 = 0.5$	nel caso di azioni di lunga durata o ripetute.

### 7.1.2 Verifica a taglio

La verifica viene condotta secondo la modalità seguente:

- per le combinazioni SLE (e le corrispondenti combinazioni SLU), si verifica la necessità di apposita armatura a taglio, attraverso la definizione del valore della tensione tangenziale agente (sulla base dei valori derivanti dalle analisi) e confronto con il valore limite ammissibile:

$$\tau_{\text{calcolo}} = T / (B \cdot 0.9H)$$

$$\tau_{\text{co}} = 0.7 \times f_{ctm} / (\gamma_{m,c} \gamma_{m,E}) = 0.7 \times 0.27 (R_{ck})^{2/3} / (3.2 \times 1.5) = 0.42 \text{ MPa}$$

Laddove tale verifica non dovesse essere soddisfatta (allorquando la sollecitazione di taglio portasse a tensioni tangenziali superiori a  $\tau_{\text{co}}$ ), verrà effettuata la verifica prevedendo la messa in opera di adeguata armatura a taglio e la verifica secondo quanto previsto in DM96.

- per le combinazioni SLU relative al caso sismico viene a verificarsi la necessità di armatura a taglio secondo le modalità previste dall' DM96.

Nel caso non risultasse necessaria armatura a taglio, verrà comunque prevista un quantitativo d'acciaio tale da soddisfare i requisiti di normativa relativi all'area minima.

## **7.2 VERIFICHE STATICHE GALLERIA ARTIFICIALE**

Vengono di seguito riportate le verifiche effettuate per la galleria artificiale nelle varie combinazioni di calcolo effettuate.

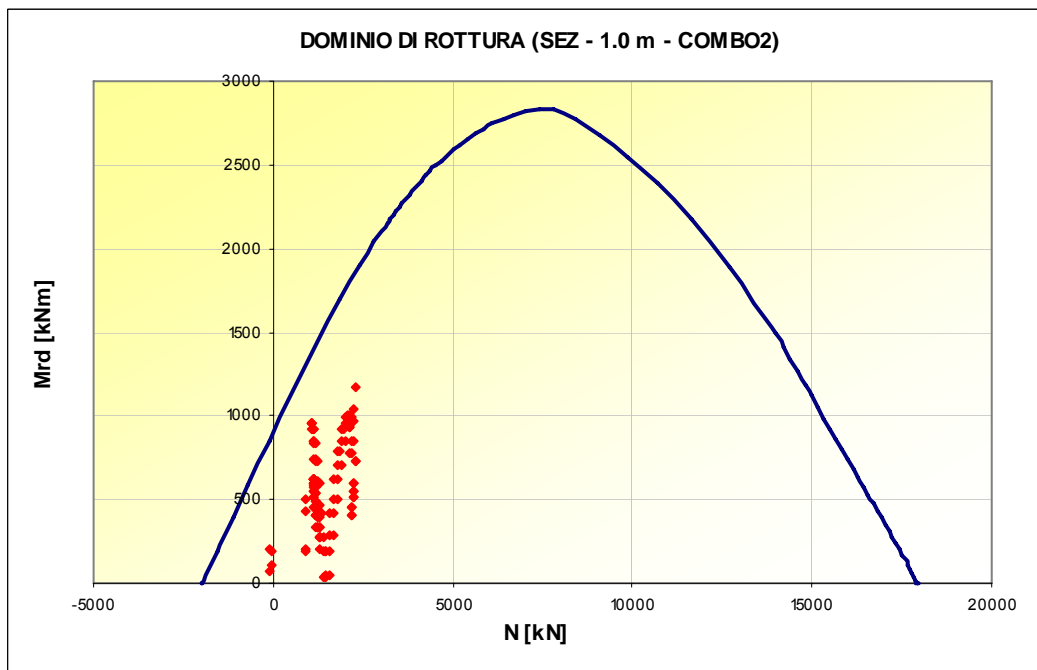
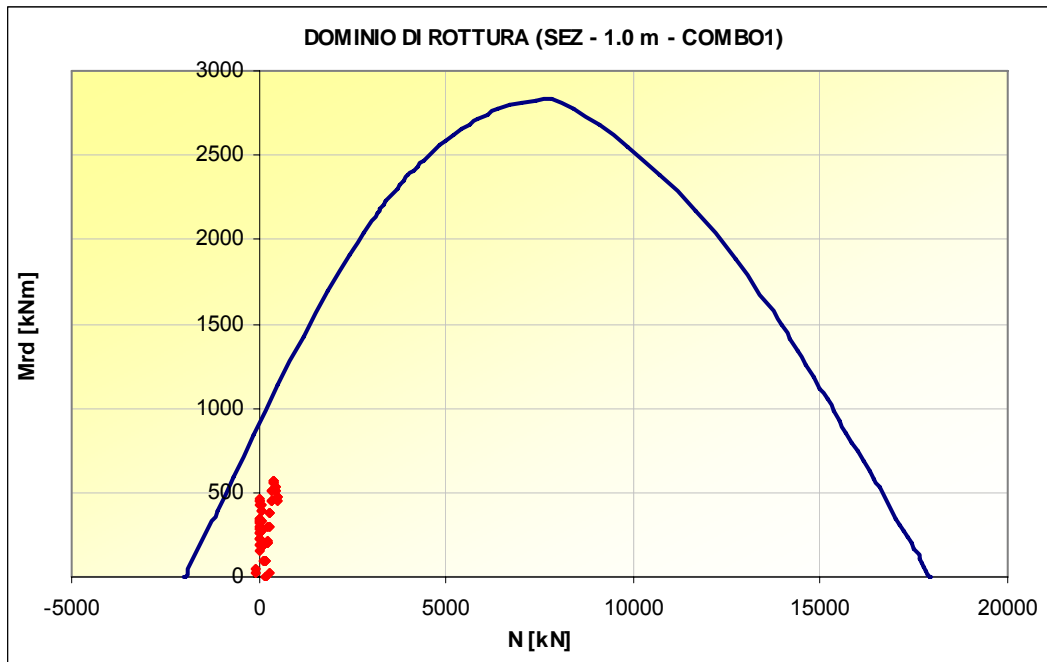
### ***Combinazioni SLE e Verifica necessità armatura a taglio***

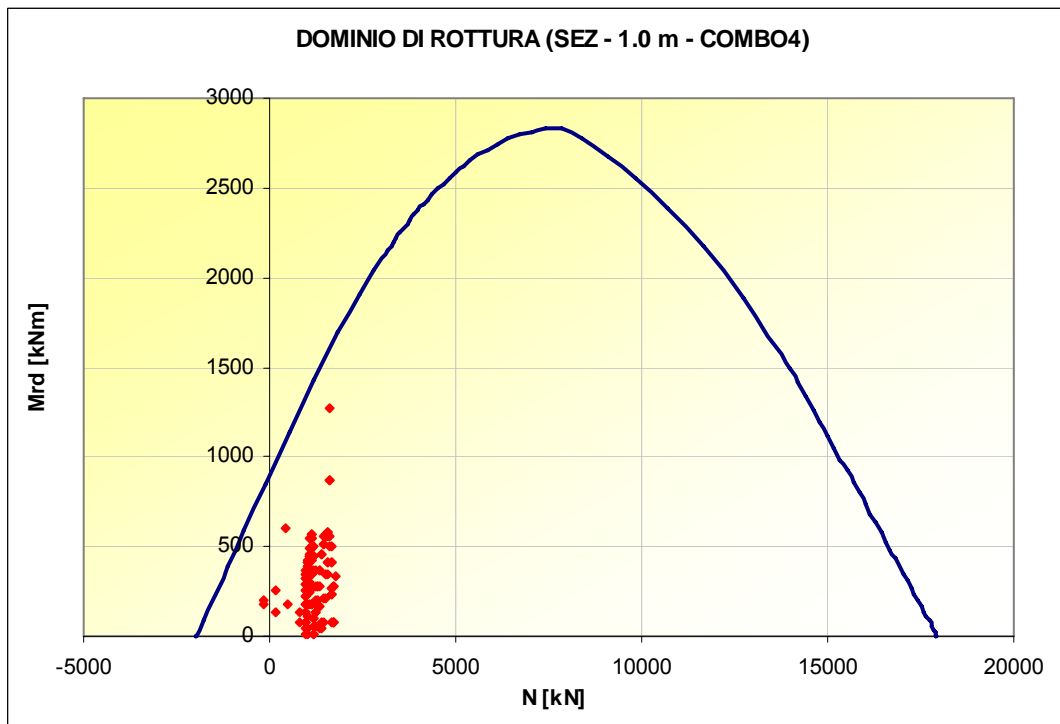
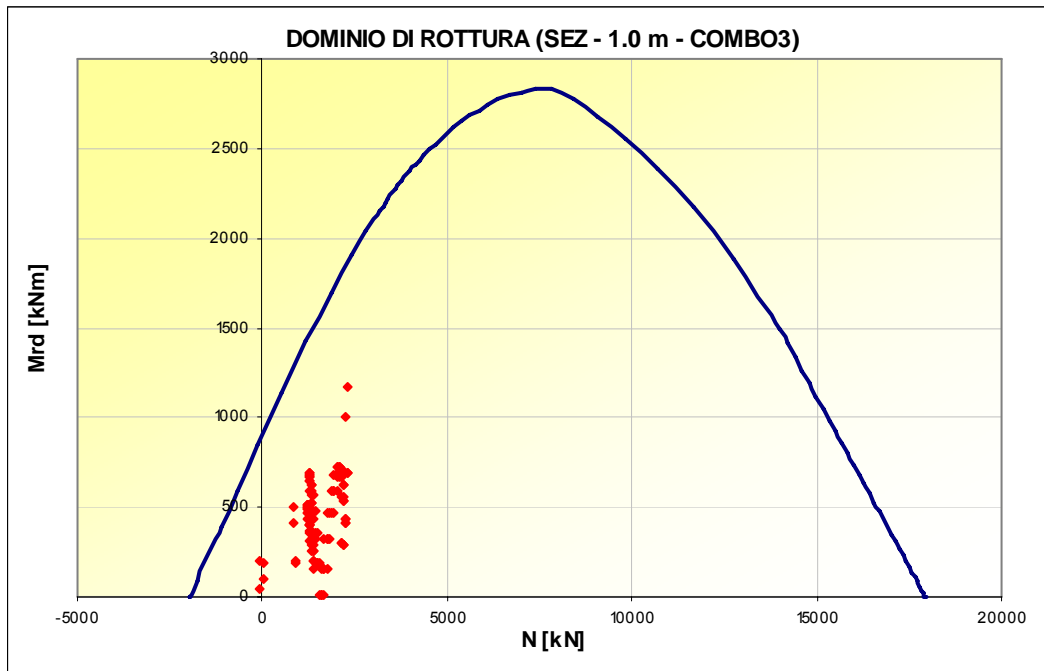
Le verifiche condotte per le combinazioni di carico adottate risultano soddisfatte, e riportate integralmente in allegato.

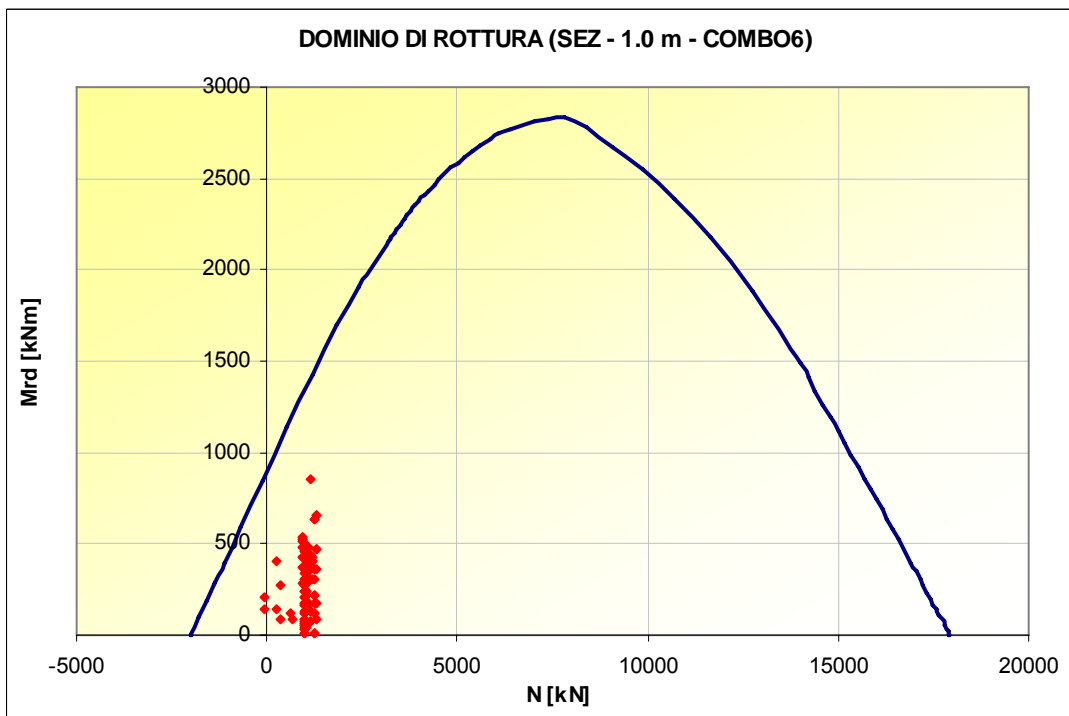
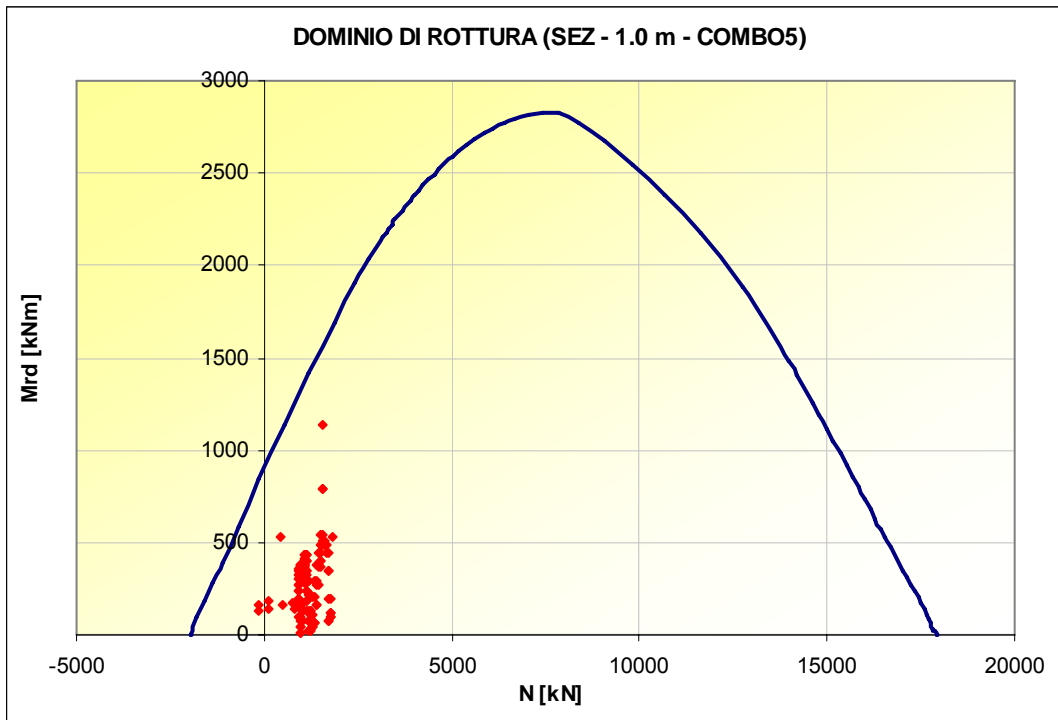
#### **7.2.1 CALCOLO I**

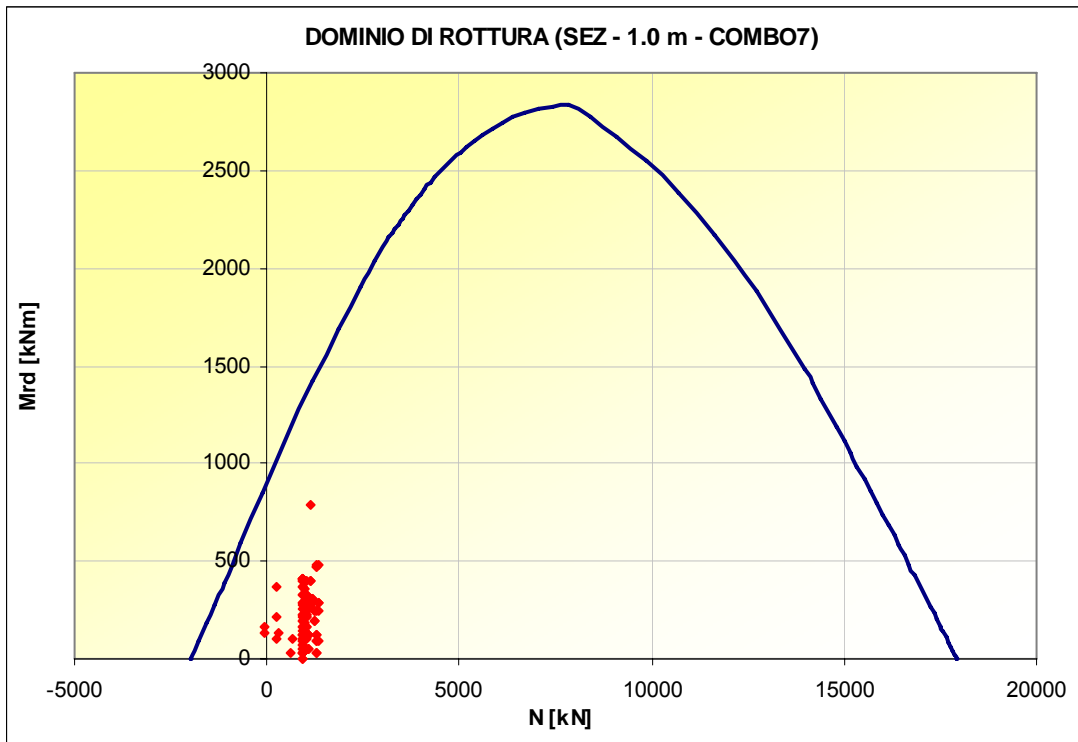
### ***Combinazioni SLU e verifica a taglio***

Le verifiche condotte per le combinazioni di carico adottate risultano soddisfatte. I diagrammi riportati di seguito mostrano come tutti i punti rappresentativi delle coppie (Nd,Md) risultino posizionate all'interno del dominio di resistenza per le varie combinazioni di carico prese in considerazione.







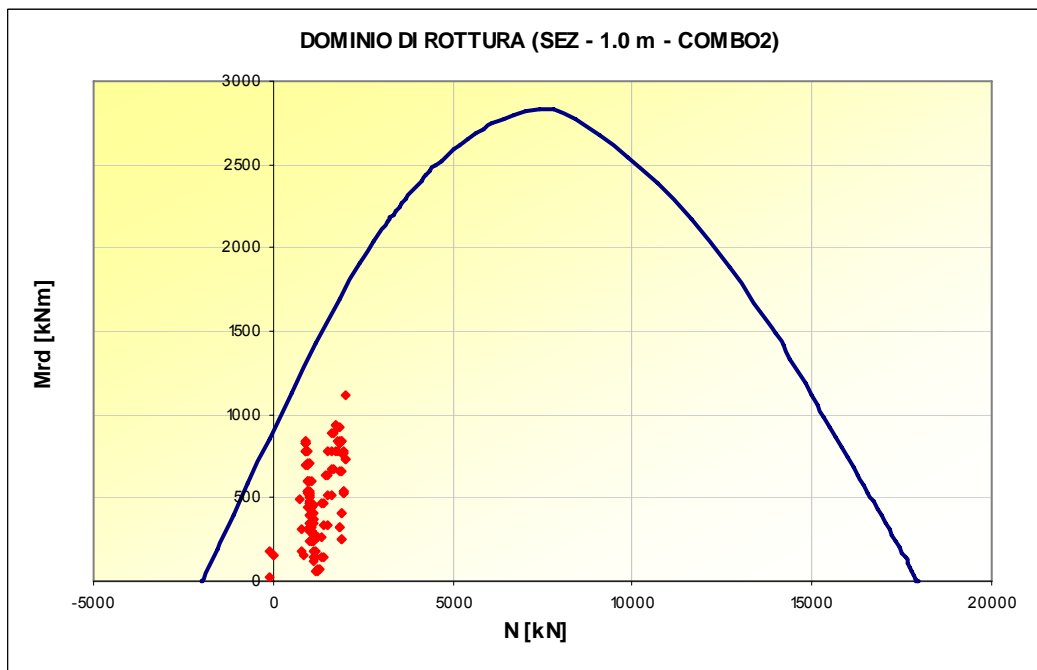
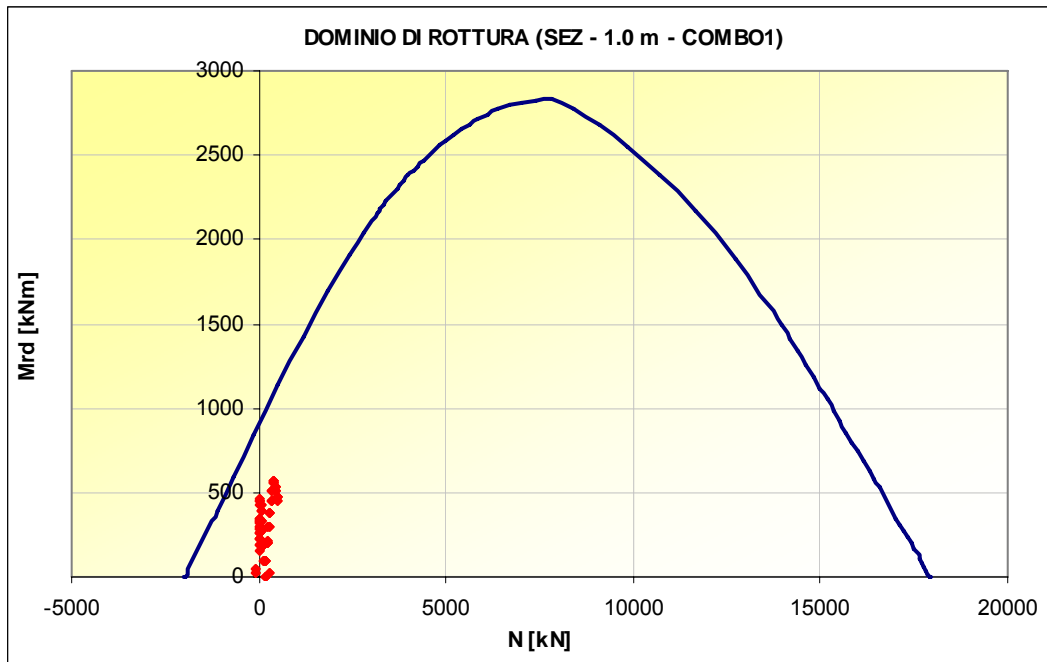


La verifica a taglio condotta per le condizioni SLU mostra la necessità di una specifica armatura necessaria all'assorbimento degli sforzi taglienti nelle condizioni sismiche per la zona di piedritto. A tal fine sono idonei all'assorbimento di tali sforzi gli spilli  $\phi 16/30\text{cm}/40\text{cm}$  disposti su tutta la struttura.

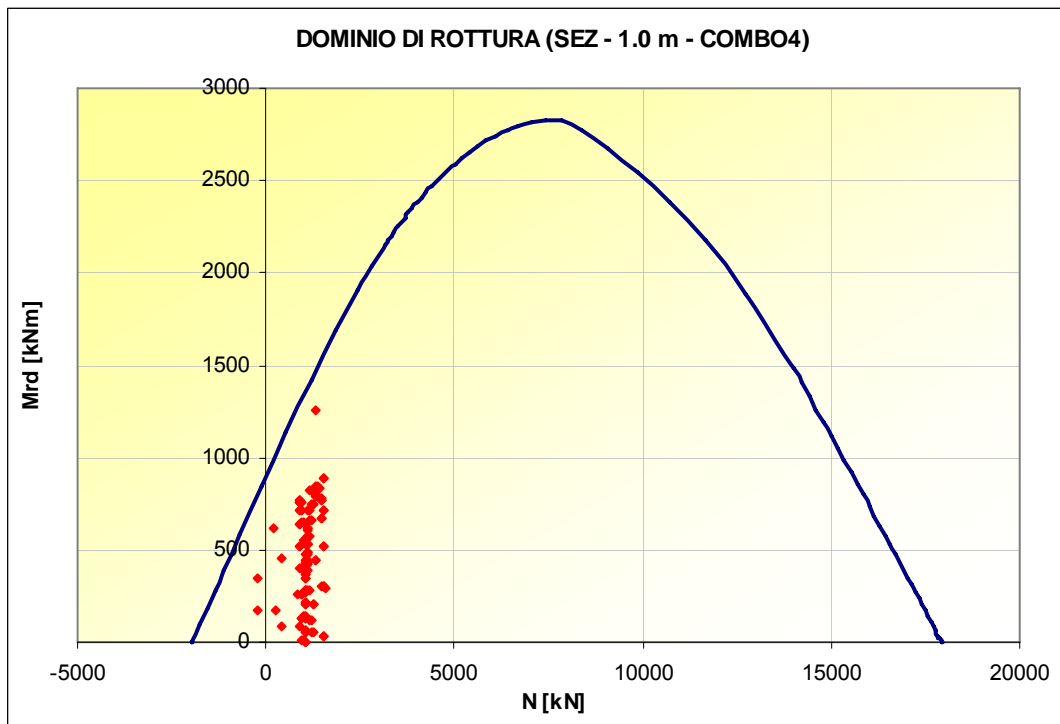
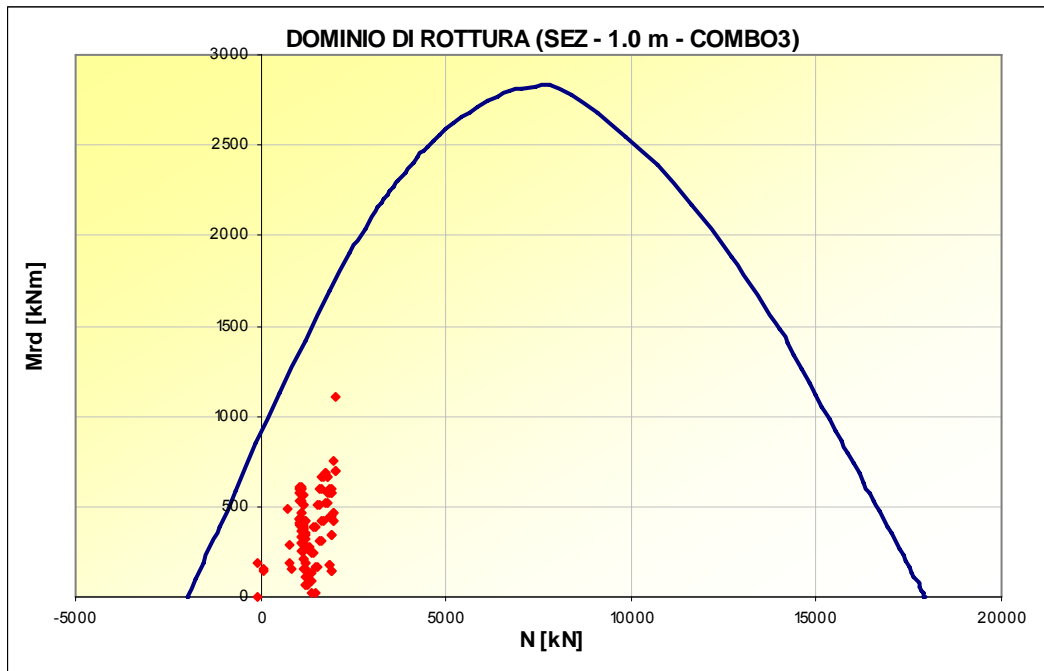
## 7.2.2 CALCOLO II

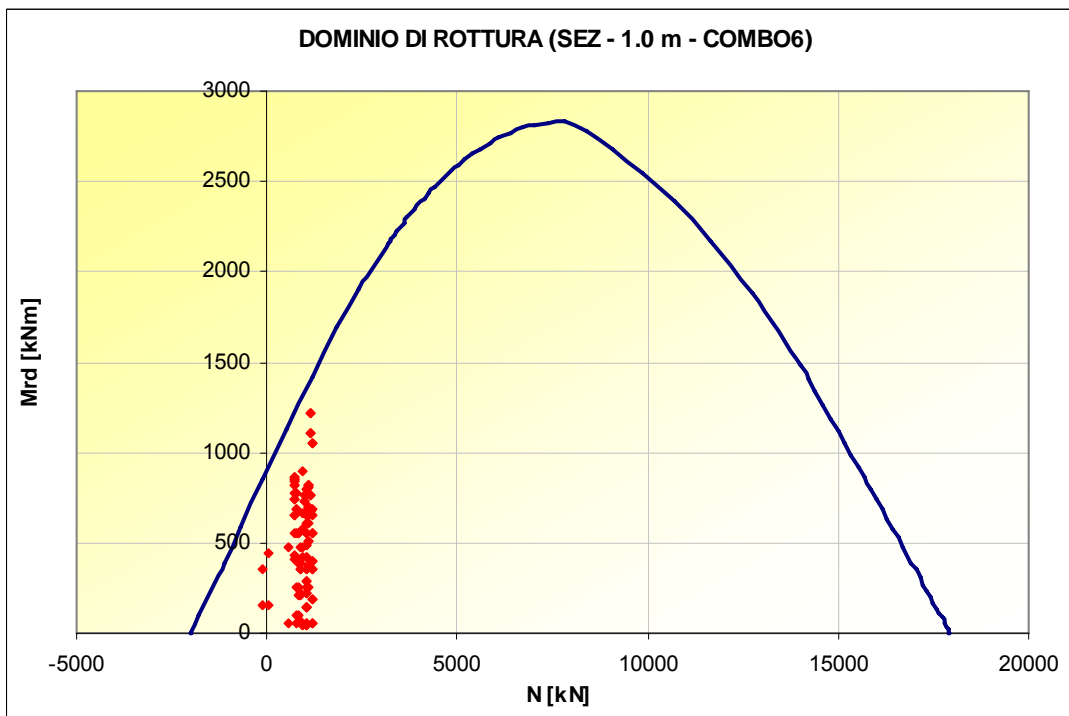
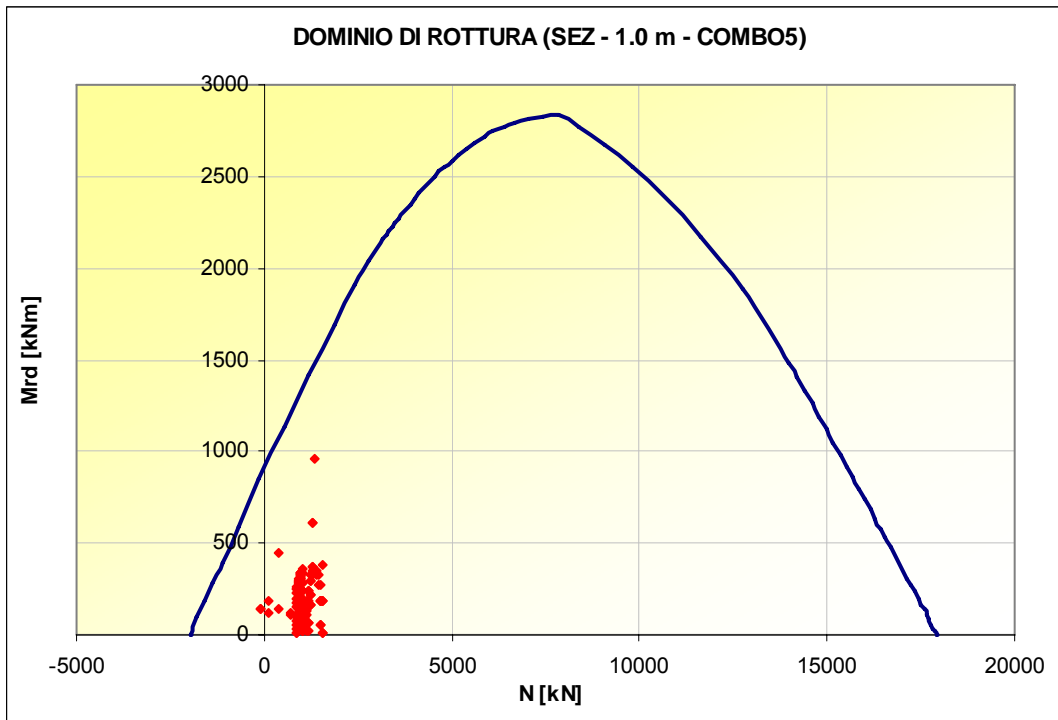
### ***Combinazioni SLU e verifica a taglio***

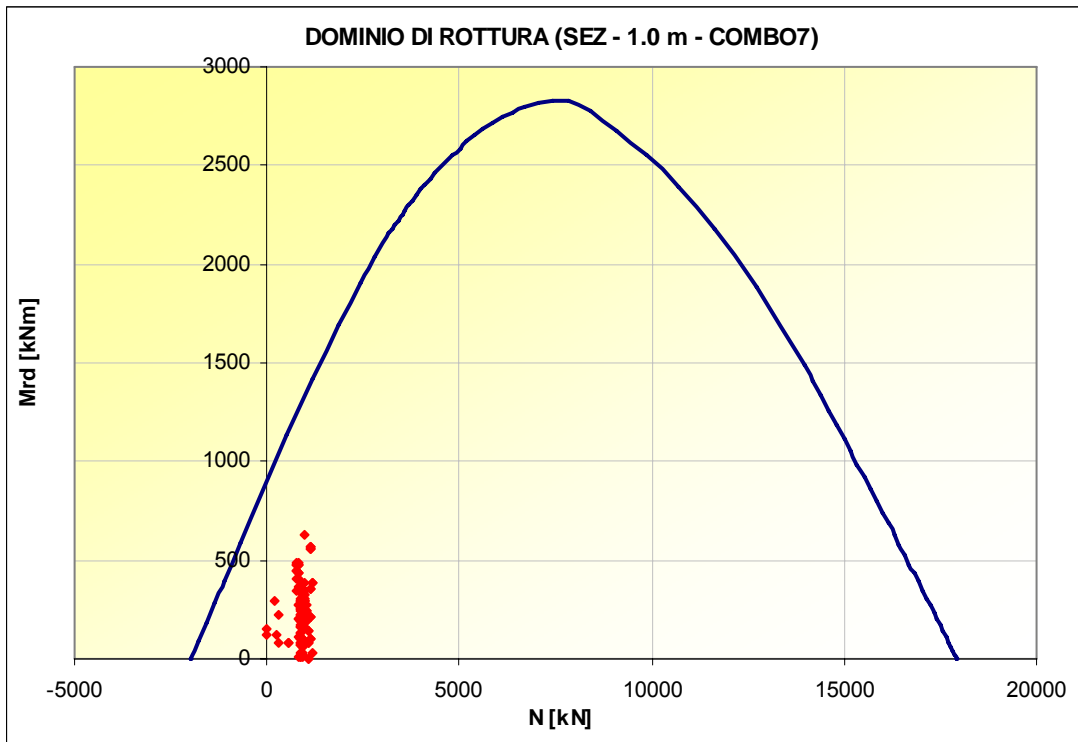
Le verifiche condotte per le combinazioni di carico adottate risultano soddisfatte. I diagrammi riportati di seguito mostrano come tutti i punti rappresentativi delle coppie  $(N_d, M_d)$  risultino posizionate all'interno del dominio di resistenza per le varie combinazioni di carico prese in considerazione.











La verifica a taglio condotta per le condizioni SLU mostra la necessità di una specifica armatura necessaria all'assorbimento degli sforzi taglienti nelle condizioni sismiche per la zona di piedritto. A tal fine sono idonei all'assorbimento di tali sforzi gli spilli  $\phi 16/30\text{cm}/40\text{cm}$  disposti su tutta la struttura.

### **7.3 VERIFICHE STATICHE BECCO DI FLAUTO**

Vengono di seguito riportate le verifiche effettuate per il becco di flauto nelle varie combinazioni di calcolo effettuate.

Le sollecitazioni derivanti dal calcolo mostrano un comportamento di tipologia prettamente flessionale, con sforzi normali limitati.

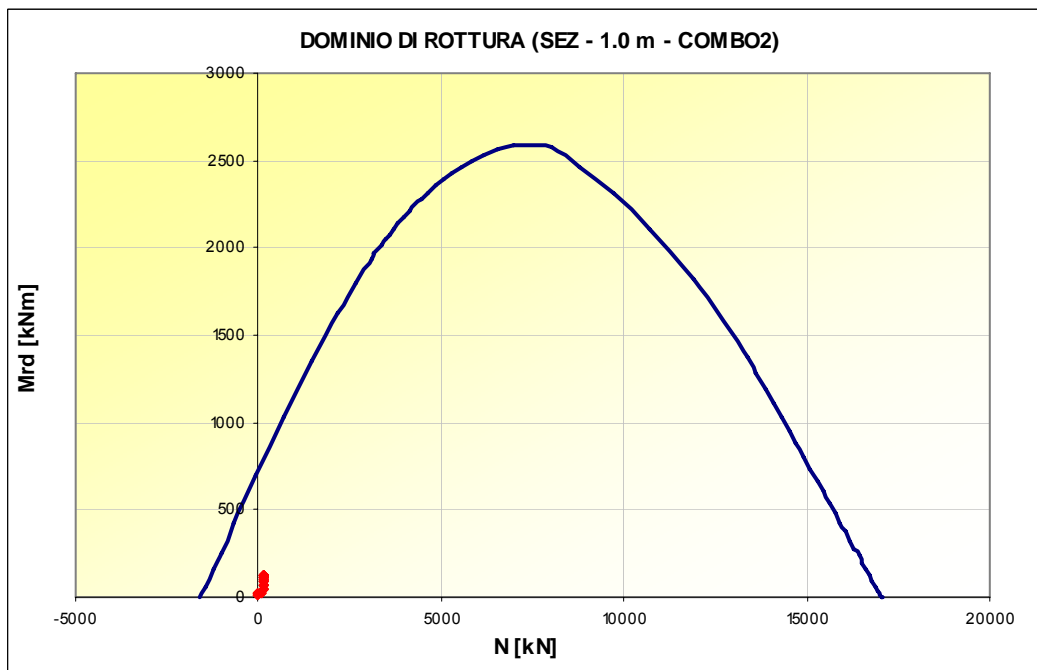
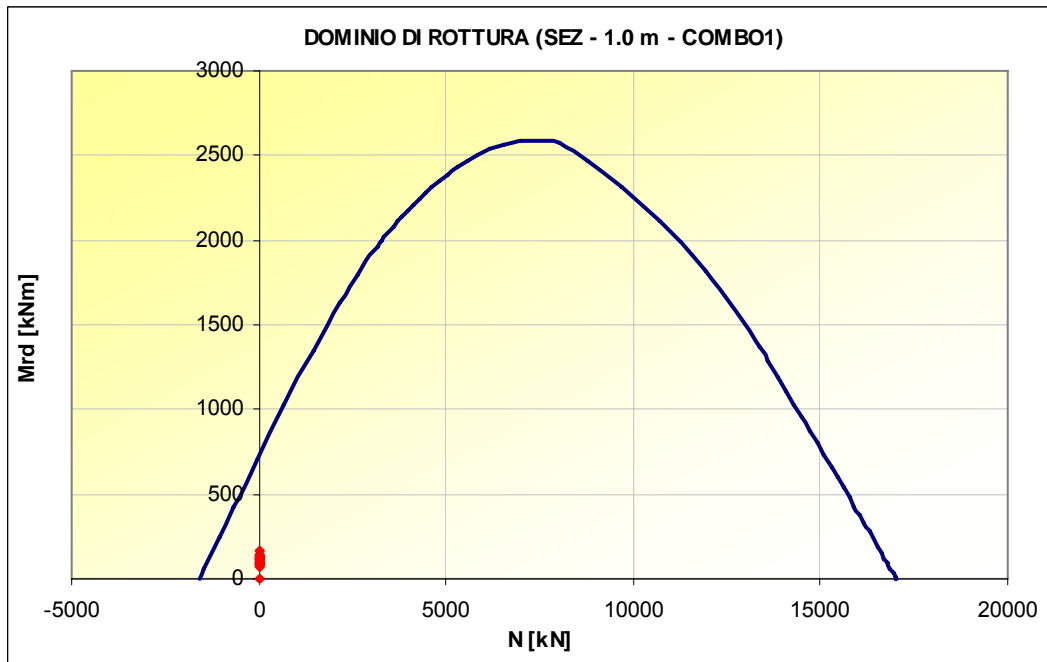
#### **7.3.1 Verifiche arco rovescio (sez. 1m)**

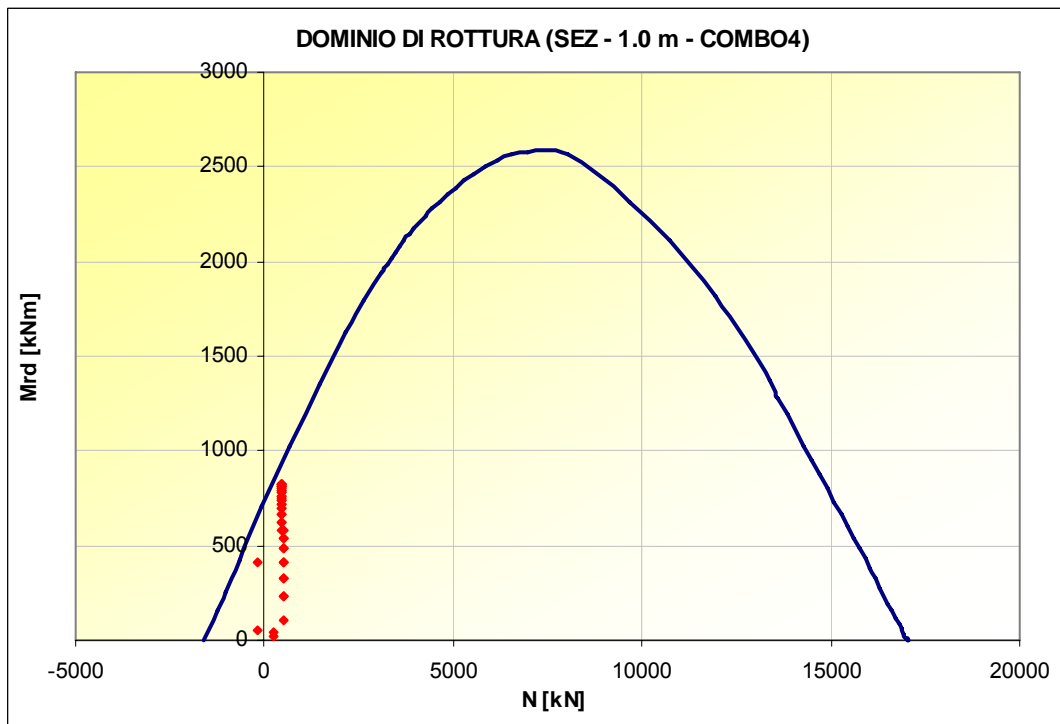
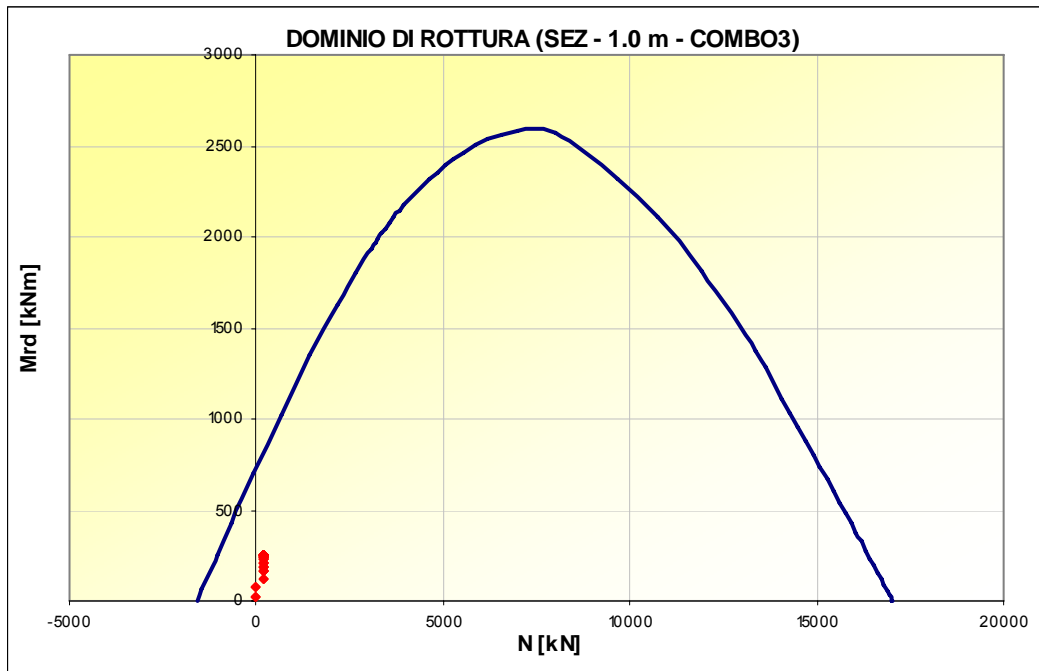
##### ***Combinazioni SLE e Verifica necessità armatura a taglio***

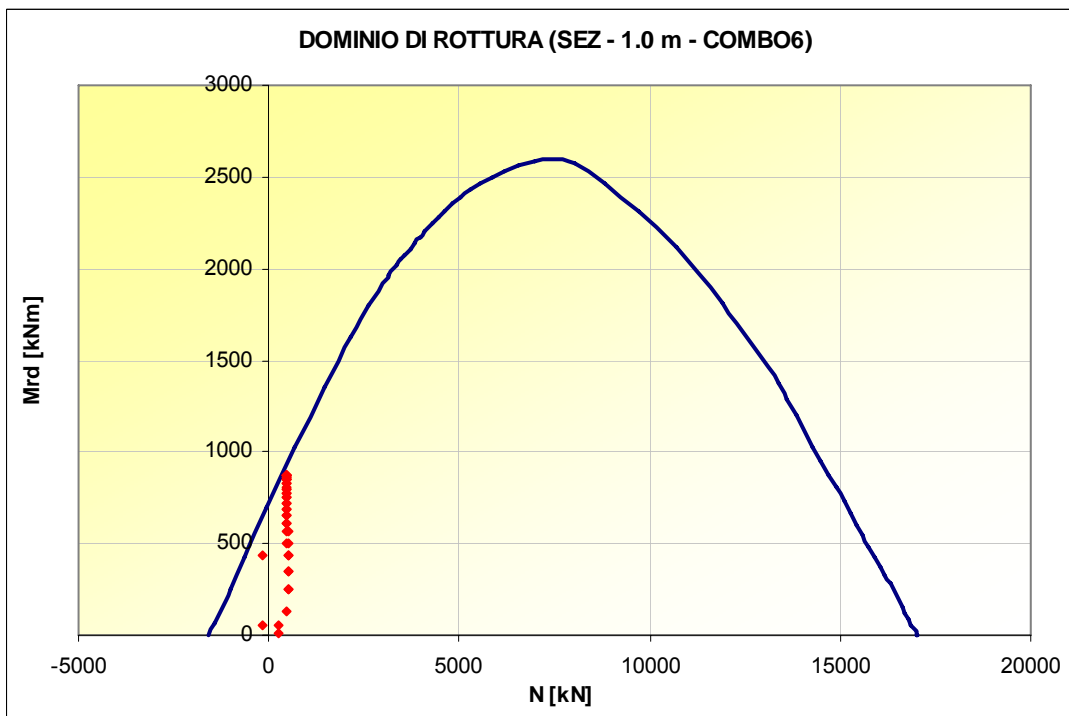
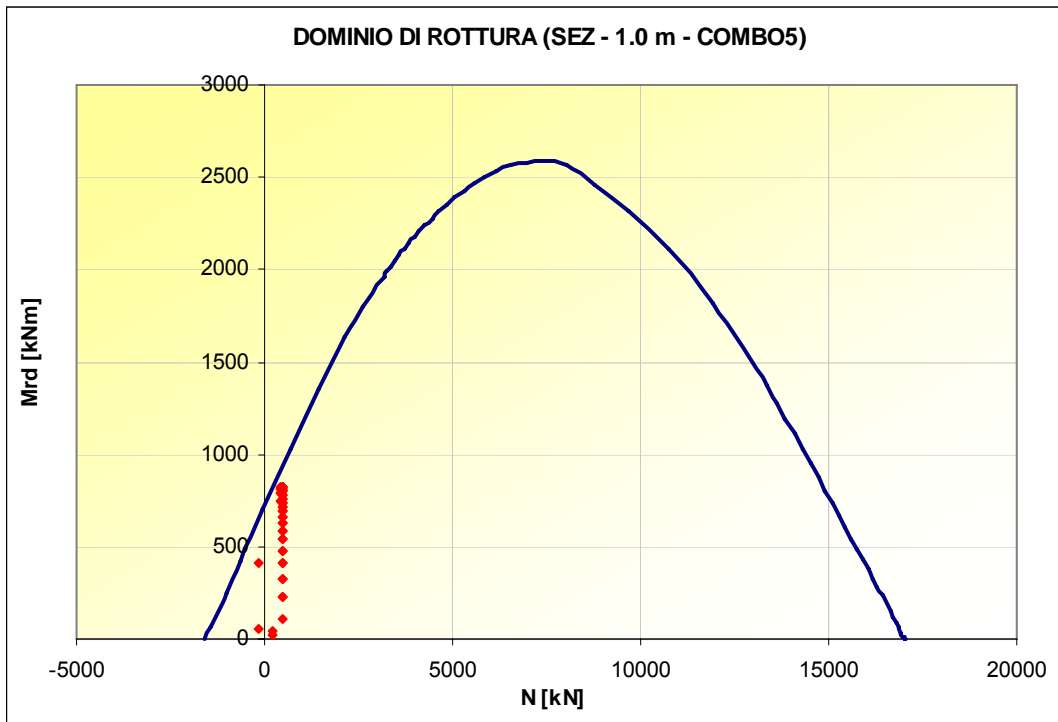
Le verifiche condotte per le combinazioni di carico adottate risultano soddisfatte, e sono riportate integralmente in allegato.

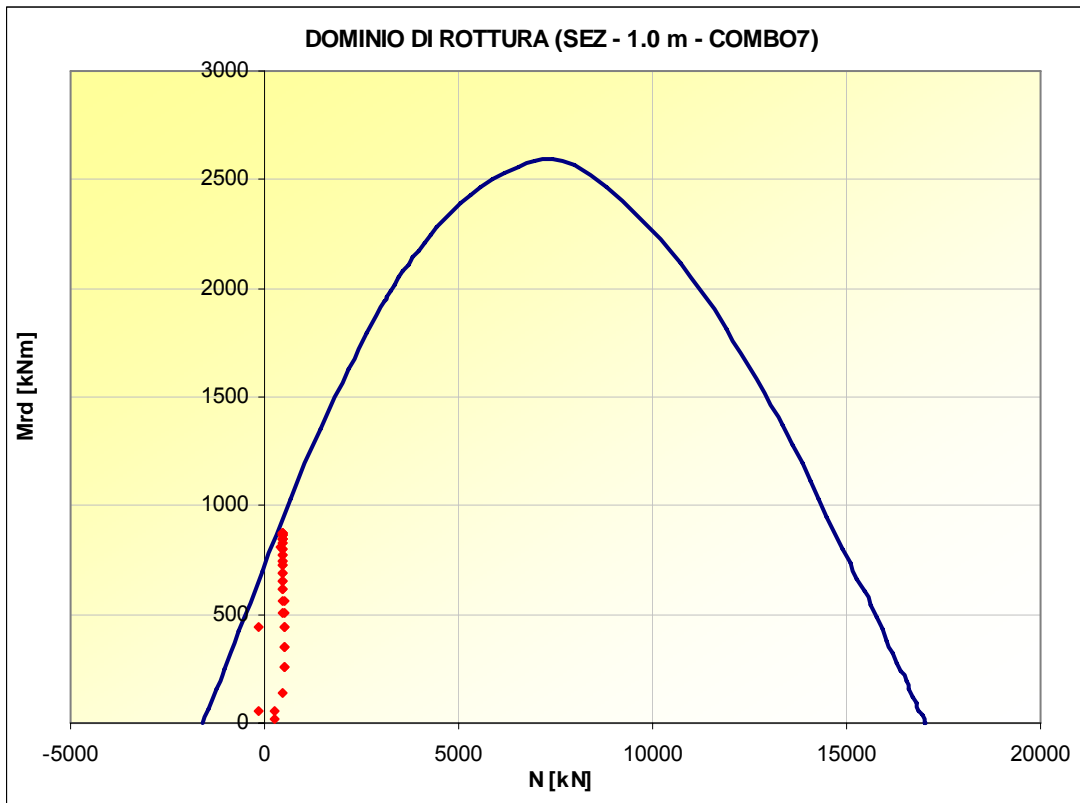
##### ***Combinazioni SLU***

Le verifiche condotte per le combinazioni di carico adottate risultano soddisfatte. I diagrammi riportati di seguito mostrano come tutti i punti rappresentativi delle coppie (Nd,Md) risultino posizionate all'interno del dominio di resistenza per le varie combinazioni di carico prese in considerazione.









I valori di sollecitazione taglianti si mantengono limitati, e tali da non generare la necessità di apposita armatura a taglio.



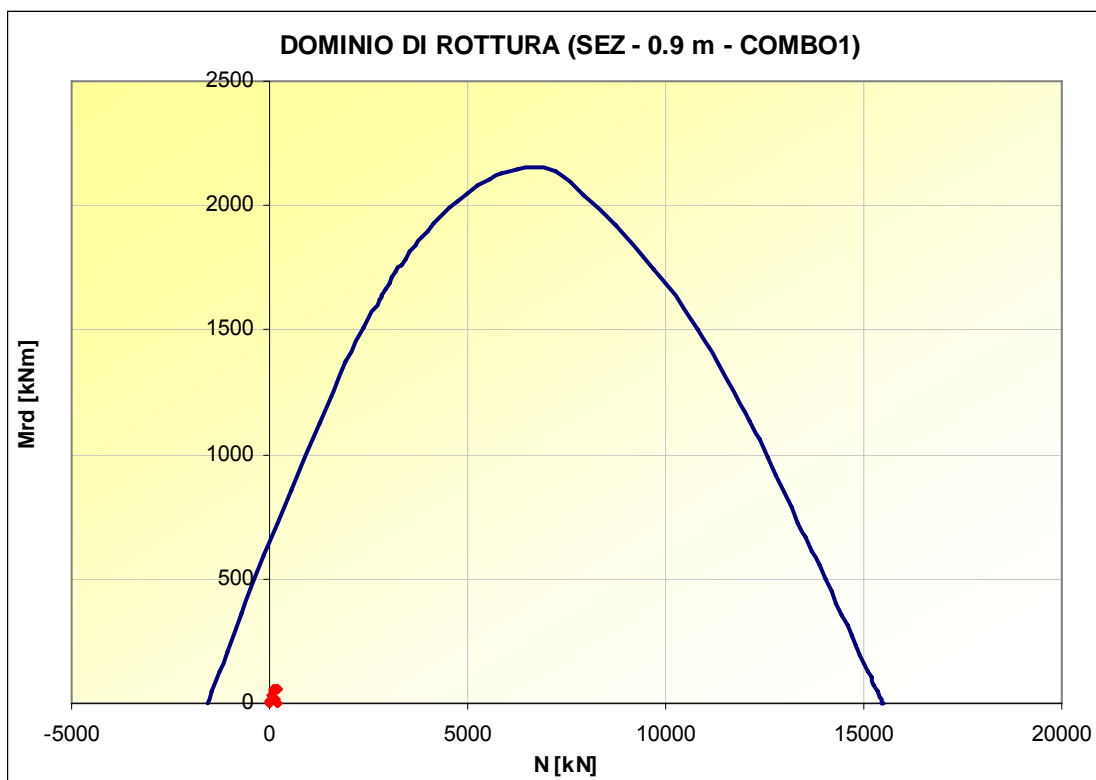
### 7.3.2 Verifiche calotta – piedritto (sez. 0.90 m)

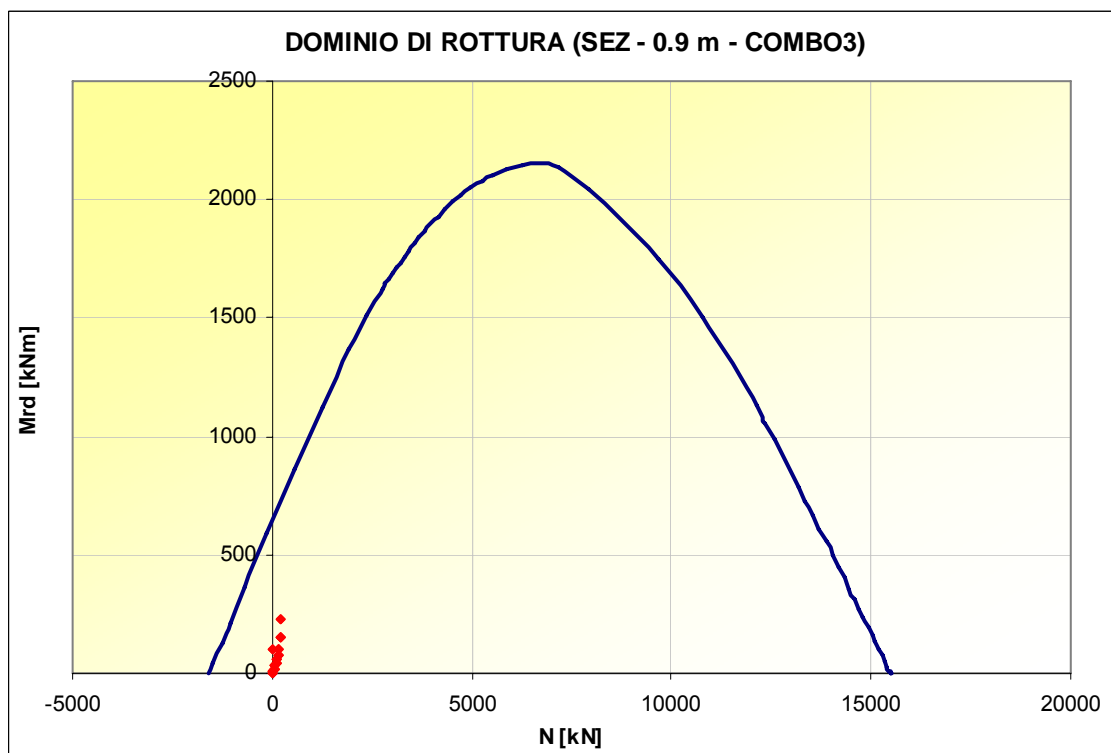
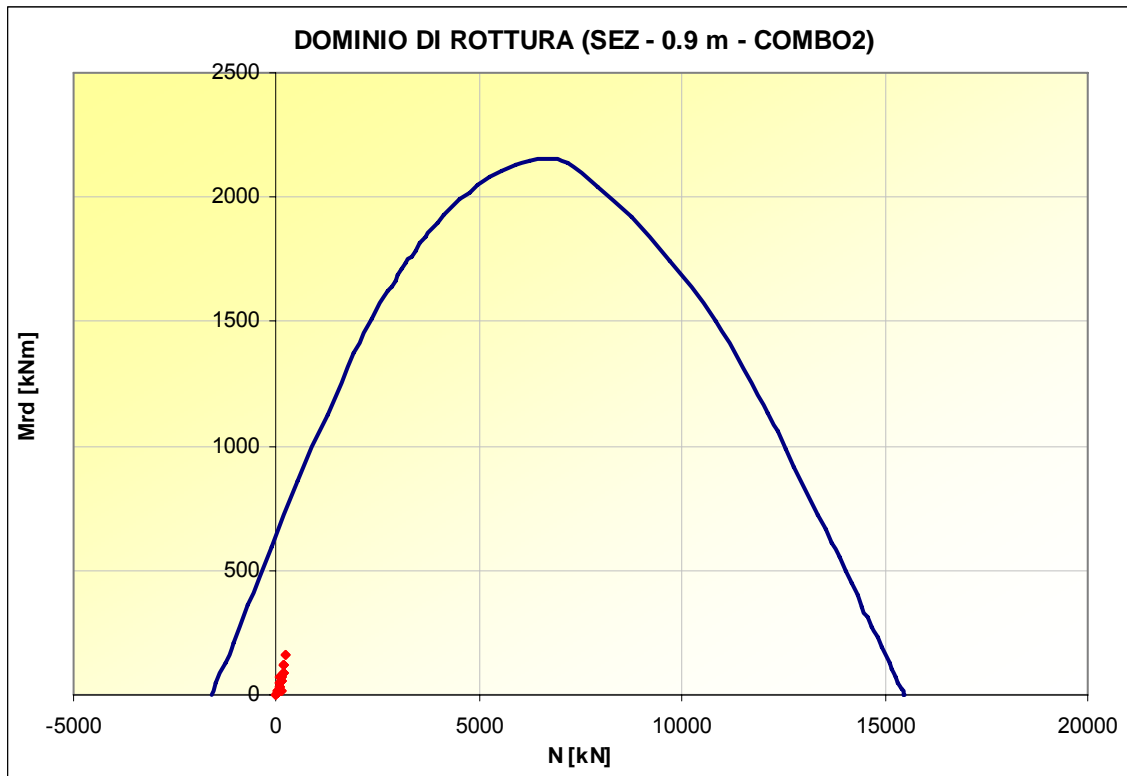
#### **Combinazioni SLE e Verifica necessità armatura a taglio**

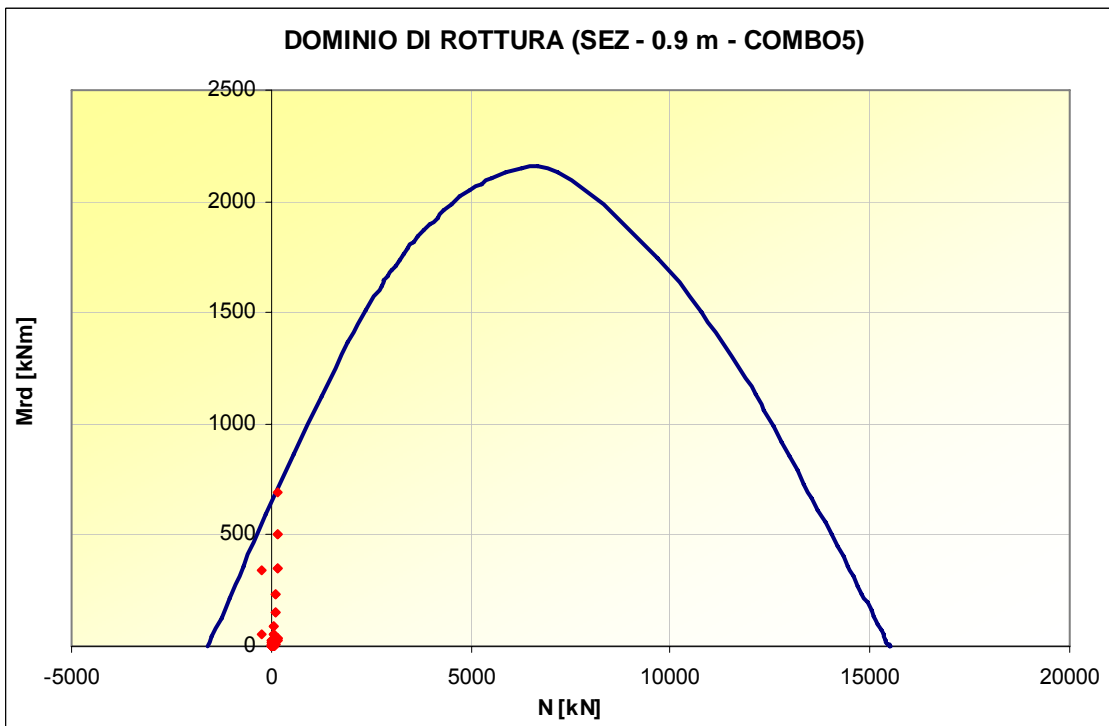
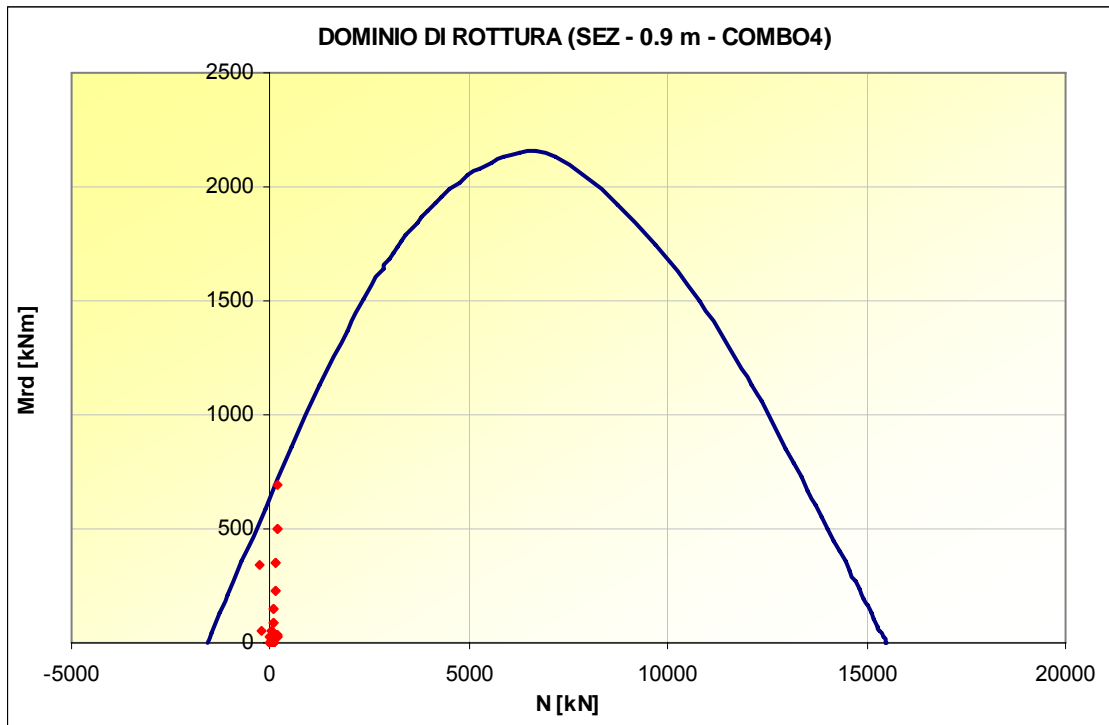
Le verifiche condotte per le combinazioni di carico adottate risultano soddisfatte, e riportate integralmente in allegato.

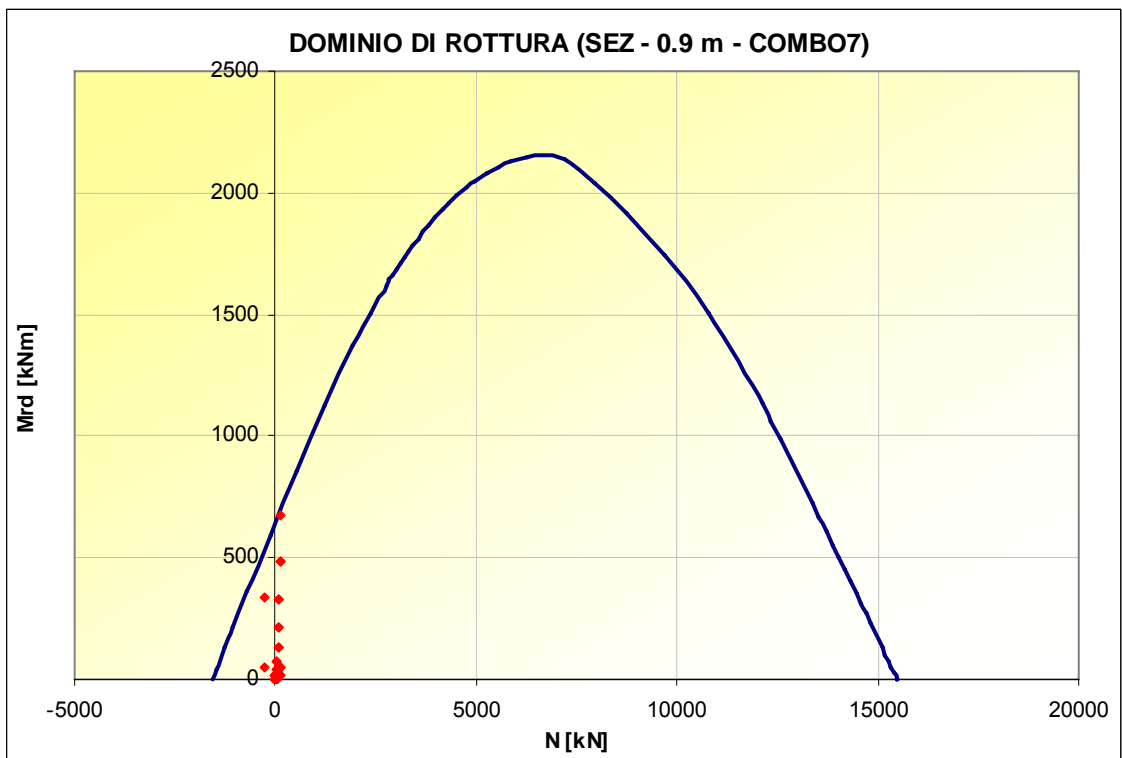
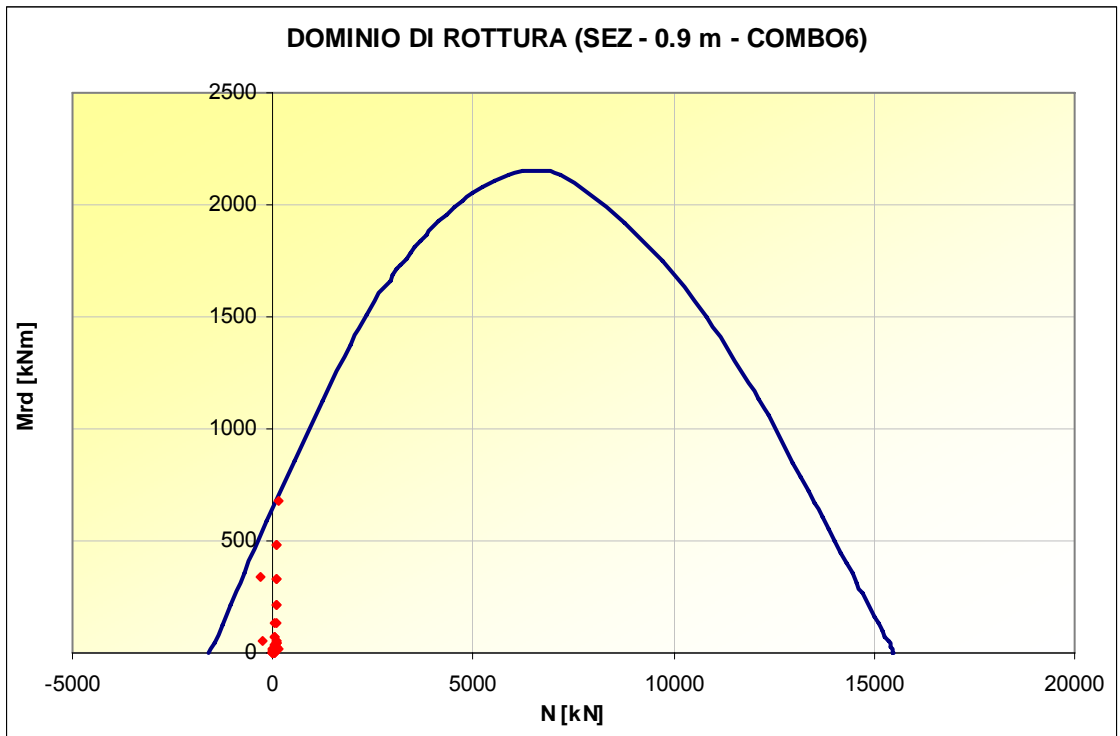
#### **Combinazioni SLU**

Le verifiche condotte per le combinazioni di carico adottate risultano soddisfatte. I diagrammi riportati di seguito mostrano come tutti i punti rappresentativi delle coppie (Nd,Md) risultino posizionate all'interno del dominio di resistenza per le varie combinazioni di carico prese in considerazione.









I valori di sollecitazione taglienti si mantengono limitati, e tali da non generare la necessità di apposita armatura a taglio.

## **8. CONCLUSIONI**

Nella presente relazione sono state descritte le verifiche statiche svolte per le opere definitive d'imbocco in artificiale della galleria Cavallo.

Così come risulta dalle tabelle e dai tabulati allegati, la struttura risulta soddisfare i requisiti di normativa.

## **Allegato 1**

### **Galleria artificiale – CALCOLO I**

#### **Dati di input SAP**

**Table: Combination Definitions, Part 1 of 2**

ComboName	ComboType	CaseType	CaseName	ScaleFactor	SteelDesign	ConcDesign
Text	Text	Text	Text	Unitless	Yes/No	Yes/No
COMB1	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB2	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB2		Linear Static	Fv	1,000000		
COMB2		Linear Static	Fh_ka	1,000000		
COMB2		Linear Static	Fvq	1,000000		
COMB2		Linear Static	Fhq_ka	1,000000		
COMB3	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB3		Linear Static	Fv	1,000000		
COMB3		Linear Static	Fh_k0	1,000000		
COMB3		Linear Static	Fvq	1,000000		
COMB3		Linear Static	Fhq_k0	1,000000		
COMB4	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB4		Linear Static	Fv	1,000000		
COMB4		Linear Static	Fh_k0	1,000000		
COMB4		Linear Static	Esx	1,300000		
COMB4		Linear Static	Fv*kv	1,300000		
COMB4		Linear Static	Pvsx*kh*kv	1,300000		
COMB4		Linear Static	Pvdx*kh*kv	1,300000		
COMB4		Linear Static	Kv*PP	1,300000		
COMB4		Linear Static	Kh*PP	1,300000		
COMB5	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB5		Linear Static	Fv	1,000000		
COMB5		Linear Static	Fh_k0	1,000000		
COMB5		Linear Static	Edx	1,300000		
COMB5		Linear Static	Fv*kv	1,300000		
COMB5		Linear Static	Pvsx*kh*kv	1,300000		
COMB5		Linear Static	Pvdx*kh*kv	1,300000		
COMB5		Linear Static	Kh*PP	-1,300000		
COMB5		Linear Static	Kv*PP	1,300000		
COMB6	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB6		Linear Static	Fv	1,000000		
COMB6		Linear Static	Fh_k0	1,000000		
COMB6		Linear Static	Esx	1,300000		
COMB6		Linear Static	Fv*kv	-1,300000		
COMB6		Linear Static	Pvsx*kh*kv	-1,300000		
COMB6		Linear Static	Pvdx*kh*kv	-1,300000		
COMB6		Linear Static	Kv*PP	-1,300000		
COMB6		Linear Static	Kh*PP	1,300000		

ComboName	ComboType	CaseType	CaseName	ScaleFactor	SteelDesign	ConcDesign
Text	Text	Text	Text	Unitless	Yes/No	Yes/No
COMB7	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB7		Linear Static	Fv	1,000000		
COMB7		Linear Static	Fh_k0	1,000000		
COMB7		Linear Static	Edx	1,300000		
COMB7		Linear Static	Fv*kv	-1,300000		
COMB7		Linear Static	Pvsx*kh*kv	-1,300000		
COMB7		Linear Static	Pvdx*kh*kv	-1,300000		
COMB7		Linear Static	Kv*PP	-1,300000		
COMB7		Linear Static	Kh*PP	-1,300000		

**Table: Combination Definitions, Part 2 of 2**

ComboName	CaseName	AlumDesign	ColdDesign
Text	Text	Yes/No	Yes/No
COMB1	DEAD	No	No
COMB2	DEAD	No	No
COMB2	Fv		
COMB2	Fh_ka		
COMB2	Fvq		
COMB2	Fhq_ka		
COMB3	DEAD	No	No
COMB3	Fv		
COMB3	Fh_k0		
COMB3	Fvq		
COMB3	Fhq_k0		
COMB4	DEAD	No	No
COMB4	Fv		
COMB4	Fh_k0		
COMB4	Esx		
COMB4	Fv*kv		
COMB4	Pvsx*kh*kv		
COMB4	Pvdx*kh*kv		
COMB4	Kv*PP		
COMB4	Kh*PP		
COMB5	DEAD	No	No
COMB5	Fv		
COMB5	Fh_k0		
COMB5	Edx		



ComboName	CaseName	AlumDesign	ColdDesign
Text	Text	Yes/No	Yes/No
COMB5	Fv*kv		
COMB5	Pvsx*kh*kv		
COMB5	Pvdx*kh*kv		
COMB5	Kh*PP		
COMB5	Kv*PP		
COMB6	DEAD	No	No
COMB6	Fv		
COMB6	Fh_k0		
COMB6	Esx		
COMB6	Fv*kv		
COMB6	Pvsx*kh*kv		
COMB6	Pvdx*kh*kv		
COMB6	Kv*PP		
COMB6	Kh*PP		
COMB7	DEAD	No	No
COMB7	Fv		
COMB7	Fh_k0		
COMB7	Edx		
COMB7	Fv*kv		
COMB7	Pvsx*kh*kv		
COMB7	Pvdx*kh*kv		
COMB7	Kv*PP		
COMB7	Kh*PP		

**Table: Connectivity - Frame**

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
1	1	2	No	0,55983	0,27985	-5,300E-15	-5,07760
2	2	3	No	0,69992	0,90888	-5,300E-15	-5,04828
3	3	4	No	0,69992	1,60553	-5,300E-15	-4,98320
4	4	5	No	0,69992	2,29789	-5,300E-15	-4,88216
5	5	6	No	0,69992	2,98409	-5,350E-15	-4,74545
6	6	7	No	0,69992	3,66230	-5,400E-15	-4,57341
7	7	8	No	0,69992	4,33070	-5,400E-15	-4,36652
8	8	9	No	0,69992	4,98750	-5,450E-15	-4,12533
9	9	10	No	0,69992	5,63095	-5,500E-15	-3,85049
10	10	11	No	0,69992	6,25931	-5,550E-15	-3,54272

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
11	11	12	No	2,03411	7,36476	-5,700E-15	-2,74668
12	12	13	No	0,74117	8,16000	-2,750E-15	-1,74207
13	13	14	No	0,74117	8,16000	2,000E-16	-1,00090
14	14	15	No	0,74117	8,16000	5,000E-17	-0,25974
15	15	16	No	0,74117	8,16000	-3,200E-15	0,48143
16	16	17	No	0,74050	8,10415	-6,450E-15	1,21803
17	17	18	No	0,74050	7,95750	-6,550E-15	1,94299
18	18	19	No	0,74050	7,74178	-6,700E-15	2,65048
19	19	20	No	0,74050	7,45900	-6,850E-15	3,33393
20	20	21	No	0,74050	7,11177	-6,950E-15	3,98701
21	21	22	No	0,74050	6,70333	-7,050E-15	4,60365
22	22	23	No	0,74050	6,23745	-7,150E-15	5,17813
23	23	24	No	0,74050	5,71847	-7,250E-15	5,70513
24	24	25	No	0,74050	5,15118	-7,350E-15	6,17975
25	25	26	No	0,74050	4,54087	-7,450E-15	6,59760
26	26	27	No	0,74070	3,89909	-7,500E-15	6,96652
27	27	28	No	0,74052	3,23408	-7,550E-15	7,29135
28	28	29	No	0,74052	2,54470	-7,600E-15	7,55960
29	29	30	No	0,74052	1,83344	-7,650E-15	7,76284
30	30	31	No	0,74052	1,10641	-7,700E-15	7,89930
31	31	32	No	0,74052	0,36986	-7,700E-15	7,96783
32	32	33	No	0,74052	-0,36986	-7,700E-15	7,96783
33	33	34	No	0,74052	-1,10641	-7,700E-15	7,89930
34	34	35	No	0,74052	-1,83344	-7,650E-15	7,76284
35	35	36	No	0,74052	-2,54470	-7,600E-15	7,55960
36	36	37	No	0,74052	-3,23408	-7,550E-15	7,29135
37	37	38	No	0,74070	-3,89909	-7,500E-15	6,96652
38	38	39	No	0,74050	-4,54087	-7,450E-15	6,59760
39	39	40	No	0,74050	-5,15118	-7,350E-15	6,17975
40	40	41	No	0,74050	-5,71847	-7,250E-15	5,70513
41	41	42	No	0,74050	-6,23745	-7,150E-15	5,17813
42	42	43	No	0,74050	-6,70333	-7,050E-15	4,60365
43	43	44	No	0,74050	-7,11177	-6,950E-15	3,98701
44	44	45	No	0,74050	-7,45900	-6,850E-15	3,33393
45	45	46	No	0,74050	-7,74178	-6,700E-15	2,65048
46	46	47	No	0,74050	-7,95750	-6,550E-15	1,94299
47	47	48	No	0,74050	-8,10415	-6,450E-15	1,21803
48	48	49	No	0,74117	-8,16000	-6,300E-15	0,48143
49	49	50	No	0,74117	-8,16000	-6,150E-15	-0,25974
50	50	51	No	0,74117	-8,16000	-6,000E-15	-1,00090
51	51	52	No	0,74117	-8,16000	-5,850E-15	-1,74207

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
52	52	53	No	2,03411	-7,36476	-5,700E-15	-2,74668
53	53	54	No	0,69992	-6,25931	-5,550E-15	-3,54272
54	54	55	No	0,69992	-5,63095	-5,500E-15	-3,85049
55	55	56	No	0,69992	-4,98750	-5,450E-15	-4,12533
56	56	57	No	0,69992	-4,33070	-5,400E-15	-4,36652
57	57	58	No	0,69992	-3,66230	-5,400E-15	-4,57341
58	58	59	No	0,69992	-2,98409	-5,350E-15	-4,74545
59	59	60	No	0,69992	-2,29789	-5,300E-15	-4,88216
60	60	61	No	0,69992	-1,60553	-5,300E-15	-4,98320
61	61	62	No	0,69992	-0,90888	-5,300E-15	-5,04828
62	62	1	No	0,55983	-0,27985	-5,300E-15	-5,07760
1001	1001	52	No	1,26805	-8,16000	-5,700E-15	-2,74668
1002	1002	11	No	1,59049	7,36476	-2,650E-15	-3,38012
1011	1001	53	No	1,59049	-7,36476	-5,600E-15	-3,38071
1022	12	1002	No	1,26687	8,16000	-2,750E-15	-2,74609

**Table: Frame Section Assignments**

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
Text	Text	Text	Text	Text	Text
1	Rectangular	N.A.	100	N.A.	Default
2	Rectangular	N.A.	100	N.A.	Default
3	Rectangular	N.A.	100	N.A.	Default
4	Rectangular	N.A.	100	N.A.	Default
5	Rectangular	N.A.	100	N.A.	Default
6	Rectangular	N.A.	100	N.A.	Default
7	Rectangular	N.A.	100	N.A.	Default
8	Rectangular	N.A.	100	N.A.	Default
9	Rectangular	N.A.	100	N.A.	Default
10	Rectangular	N.A.	100	N.A.	Default
11	Rectangular	N.A.	100	N.A.	Default
12	Rectangular	N.A.	100T	N.A.	Default
13	Rectangular	N.A.	100B	N.A.	Default
14	Rectangular	N.A.	100	N.A.	Default
15	Rectangular	N.A.	100	N.A.	Default
16	Rectangular	N.A.	100	N.A.	Default
17	Rectangular	N.A.	100B	N.A.	Default
18	Rectangular	N.A.	100B	N.A.	Default

<b>Frame</b>	<b>SectionType</b>	<b>AutoSelect</b>	<b>AnalSect</b>	<b>DesignSect</b>	<b>MatProp</b>
Text	Text	Text	Text	Text	Text
19	Rectangular	N.A.	100T	N.A.	Default
20	Rectangular	N.A.	100T	N.A.	Default
21	Rectangular	N.A.	100T	N.A.	Default
22	Rectangular	N.A.	100B	N.A.	Default
23	Rectangular	N.A.	100	N.A.	Default
24	Rectangular	N.A.	100	N.A.	Default
25	Rectangular	N.A.	100	N.A.	Default
26	Rectangular	N.A.	100	N.A.	Default
27	Rectangular	N.A.	100	N.A.	Default
28	Rectangular	N.A.	100	N.A.	Default
29	Rectangular	N.A.	100	N.A.	Default
30	Rectangular	N.A.	100	N.A.	Default
31	Rectangular	N.A.	100	N.A.	Default
32	Rectangular	N.A.	100	N.A.	Default
33	Rectangular	N.A.	100	N.A.	Default
34	Rectangular	N.A.	100	N.A.	Default
35	Rectangular	N.A.	100	N.A.	Default
36	Rectangular	N.A.	100	N.A.	Default
37	Rectangular	N.A.	100	N.A.	Default
38	Rectangular	N.A.	100	N.A.	Default
39	Rectangular	N.A.	100	N.A.	Default
40	Rectangular	N.A.	100	N.A.	Default
41	Rectangular	N.A.	100B	N.A.	Default
42	Rectangular	N.A.	100T	N.A.	Default
43	Rectangular	N.A.	100T	N.A.	Default
44	Rectangular	N.A.	100T	N.A.	Default
45	Rectangular	N.A.	100B	N.A.	Default
46	Rectangular	N.A.	100B	N.A.	Default
47	Rectangular	N.A.	100	N.A.	Default
48	Rectangular	N.A.	100	N.A.	Default
49	Rectangular	N.A.	100	N.A.	Default
50	Rectangular	N.A.	100B	N.A.	Default
51	Rectangular	N.A.	100T	N.A.	Default
52	Rectangular	N.A.	100	N.A.	Default
53	Rectangular	N.A.	100	N.A.	Default
54	Rectangular	N.A.	100	N.A.	Default
55	Rectangular	N.A.	100	N.A.	Default
56	Rectangular	N.A.	100	N.A.	Default
57	Rectangular	N.A.	100	N.A.	Default
58	Rectangular	N.A.	100	N.A.	Default
59	Rectangular	N.A.	100	N.A.	Default

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
Text	Text	Text	Text	Text	Text
60	Rectangular	N.A.	100	N.A.	Default
61	Rectangular	N.A.	100	N.A.	Default
62	Rectangular	N.A.	100	N.A.	Default
1001	Rectangular	N.A.	100T	N.A.	Default
1002	Rectangular	N.A.	100	N.A.	Default
1011	Rectangular	N.A.	100	N.A.	Default
1022	Rectangular	N.A.	100T	N.A.	Default

**Table: Frame Section Properties 01 - General, Part 1 of 5**

SectionName	Material	Shape	t3	t2	Area	TorsConst
Text	Text	Text	m	m	m2	m4
100	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833
100B	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833
100T	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833

**Table: Frame Section Properties 01 - General, Part 2 of 5**

SectionName	I33	I22	AS2	AS3	S33	S22	Z33
Text	m4	m4	m2	m2	m3	m3	m3
100	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000
100B	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000
100T	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000

**Table: Frame Section Properties 01 - General, Part 3 of 5**

SectionName	Z22	R33	R22	ConcCol	ConcBeam	Color	TotalWt
Text	m3	m	m	Yes/No	Yes/No	Text	KN
100	0,250000	0,288675	0,288675	Yes	No	White	968,570
100B	0,250000	0,288675	0,288675	Yes	No	White	148,134
100T	0,250000	0,288675	0,288675	Yes	No	White	211,507

**Table: Frame Section Properties 01 - General, Part 4 of 5**

SectionName	TotalMass	FromFile	AMod	A2Mod	A3Mod	JMod	I2Mod
Text	KN-s2/m	Yes/No	Unitless	Unitless	Unitless	Unitless	Unitless
100	98,79	No	1,000000	1,000000	1,000000	1,000000	1,000000
100B	15,11	No	1,000000	1,000000	1,000000	1,000000	1,000000
100T	21,57	No	1,000000	1,000000	1,000000	1,000000	1,000000

**Table: Frame Section Properties 01 - General, Part 5 of 5**

SectionName	I3Mod	MMod	WMod
Text	Unitless	Unitless	Unitless
100	1,000000	1,000000	1,000000
100B	1,000000	1,000000	1,000000
100T	1,000000	1,000000	1,000000

**Table: Joint Coordinates, Part 1 of 2**

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
Text	Text	Text	m	m	m	Yes/No	m
1	GLOBAL	Cartesian	2,700E-15	-5,300E-15	-5,08339	No	2,700E-15
2	GLOBAL	Cartesian	0,55971	-5,300E-15	-5,07181	No	0,55971
3	GLOBAL	Cartesian	1,25805	-5,300E-15	-5,02476	No	1,25805
4	GLOBAL	Cartesian	1,95302	-5,300E-15	-4,94164	No	1,95302
5	GLOBAL	Cartesian	2,64276	-5,300E-15	-4,82269	No	2,64276
6	GLOBAL	Cartesian	3,32542	-5,400E-15	-4,66821	No	3,32542
7	GLOBAL	Cartesian	3,99917	-5,400E-15	-4,47862	No	3,99917
8	GLOBAL	Cartesian	4,66222	-5,400E-15	-4,25443	No	4,66222
9	GLOBAL	Cartesian	5,31278	-5,500E-15	-3,99624	No	5,31278
10	GLOBAL	Cartesian	5,94911	-5,500E-15	-3,70474	No	5,94911
11	GLOBAL	Cartesian	6,56951	-5,600E-15	-3,38071	No	6,56951
12	GLOBAL	Cartesian	8,16000	-5,800E-15	-2,11266	No	8,16000
13	GLOBAL	Cartesian	8,16000	3,000E-16	-1,37149	No	8,16000

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
Text	Text	Text	m	m	m	Yes/No	m
14	GLOBAL	Cartesian	8,16000	1,000E-16	-0,63032	No	8,16000
15	GLOBAL	Cartesian	8,16000	0,00000	0,11085	No	8,16000
16	GLOBAL	Cartesian	8,16000	-6,400E-15	0,85202	No	8,16000
17	GLOBAL	Cartesian	8,04830	-6,500E-15	1,58405	No	8,04830
18	GLOBAL	Cartesian	7,86670	-6,600E-15	2,30194	No	7,86670
19	GLOBAL	Cartesian	7,61687	-6,800E-15	2,99902	No	7,61687
20	GLOBAL	Cartesian	7,30113	-6,900E-15	3,66884	No	7,30113
21	GLOBAL	Cartesian	6,92242	-7,000E-15	4,30518	No	6,92242
22	GLOBAL	Cartesian	6,48424	-7,100E-15	4,90212	No	6,48424
23	GLOBAL	Cartesian	5,99066	-7,200E-15	5,45414	No	5,99066
24	GLOBAL	Cartesian	5,44627	-7,300E-15	5,95612	No	5,44627
25	GLOBAL	Cartesian	4,85610	-7,400E-15	6,40339	No	4,85610
26	GLOBAL	Cartesian	4,22564	-7,500E-15	6,79180	No	4,22564
27	GLOBAL	Cartesian	3,57254	-7,500E-15	7,14123	No	3,57254
28	GLOBAL	Cartesian	2,89562	-7,600E-15	7,44148	No	2,89562
29	GLOBAL	Cartesian	2,19379	-7,600E-15	7,67773	No	2,19379
30	GLOBAL	Cartesian	1,47309	-7,700E-15	7,84794	No	1,47309
31	GLOBAL	Cartesian	0,73973	-7,700E-15	7,95066	No	0,73973
32	GLOBAL	Cartesian	2,700E-15	-7,700E-15	7,98500	No	2,700E-15
33	GLOBAL	Cartesian	-0,73973	-7,700E-15	7,95066	No	-0,73973
34	GLOBAL	Cartesian	-1,47309	-7,700E-15	7,84794	No	-1,47309
35	GLOBAL	Cartesian	-2,19379	-7,600E-15	7,67773	No	-2,19379
36	GLOBAL	Cartesian	-2,89562	-7,600E-15	7,44148	No	-2,89562
37	GLOBAL	Cartesian	-3,57254	-7,500E-15	7,14123	No	-3,57254
38	GLOBAL	Cartesian	-4,22564	-7,500E-15	6,79180	No	-4,22564
39	GLOBAL	Cartesian	-4,85610	-7,400E-15	6,40339	No	-4,85610
40	GLOBAL	Cartesian	-5,44627	-7,300E-15	5,95612	No	-5,44627
41	GLOBAL	Cartesian	-5,99066	-7,200E-15	5,45414	No	-5,99066
42	GLOBAL	Cartesian	-6,48424	-7,100E-15	4,90212	No	-6,48424
43	GLOBAL	Cartesian	-6,92242	-7,000E-15	4,30518	No	-6,92242
44	GLOBAL	Cartesian	-7,30113	-6,900E-15	3,66884	No	-7,30113
45	GLOBAL	Cartesian	-7,61687	-6,800E-15	2,99902	No	-7,61687
46	GLOBAL	Cartesian	-7,86670	-6,600E-15	2,30194	No	-7,86670
47	GLOBAL	Cartesian	-8,04830	-6,500E-15	1,58405	No	-8,04830
48	GLOBAL	Cartesian	-8,16000	-6,400E-15	0,85202	No	-8,16000
49	GLOBAL	Cartesian	-8,16000	-6,200E-15	0,11085	No	-8,16000
50	GLOBAL	Cartesian	-8,16000	-6,100E-15	-0,63032	No	-8,16000
51	GLOBAL	Cartesian	-8,16000	-5,900E-15	-1,37149	No	-8,16000
52	GLOBAL	Cartesian	-8,16000	-5,800E-15	-2,11266	No	-8,16000
53	GLOBAL	Cartesian	-6,56951	-5,600E-15	-3,38071	No	-6,56951
54	GLOBAL	Cartesian	-5,94911	-5,500E-15	-3,70474	No	-5,94911

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
Text	Text	Text	m	m	m	Yes/No	m
55	GLOBAL	Cartesian	-5,31278	-5,500E-15	-3,99624	No	-5,31278
56	GLOBAL	Cartesian	-4,66222	-5,400E-15	-4,25443	No	-4,66222
57	GLOBAL	Cartesian	-3,99917	-5,400E-15	-4,47862	No	-3,99917
58	GLOBAL	Cartesian	-3,32542	-5,400E-15	-4,66821	No	-3,32542
59	GLOBAL	Cartesian	-2,64276	-5,300E-15	-4,82269	No	-2,64276
60	GLOBAL	Cartesian	-1,95302	-5,300E-15	-4,94164	No	-1,95302
61	GLOBAL	Cartesian	-1,25805	-5,300E-15	-5,02476	No	-1,25805
62	GLOBAL	Cartesian	-0,55971	-5,300E-15	-5,07181	No	-0,55971
1001	GLOBAL	Cartesian	-8,16000	-5,600E-15	-3,38071	No	-8,16000
1002	GLOBAL	Cartesian	8,16000	3,000E-16	-3,37952	No	8,16000

**Table: Joint Coordinates, Part 2 of 2**

Joint	GlobalY	GlobalZ
Text	m	m
1	-5,300E-15	-5,08339
2	-5,300E-15	-5,07181
3	-5,300E-15	-5,02476
4	-5,300E-15	-4,94164
5	-5,300E-15	-4,82269
6	-5,400E-15	-4,66821
7	-5,400E-15	-4,47862
8	-5,400E-15	-4,25443
9	-5,500E-15	-3,99624
10	-5,500E-15	-3,70474
11	-5,600E-15	-3,38071
12	-5,800E-15	-2,11266
13	3,000E-16	-1,37149
14	1,000E-16	-0,63032
15	0,00000	0,11085
16	-6,400E-15	0,85202
17	-6,500E-15	1,58405
18	-6,600E-15	2,30194
19	-6,800E-15	2,99902
20	-6,900E-15	3,66884
21	-7,000E-15	4,30518
22	-7,100E-15	4,90212
23	-7,200E-15	5,45414



<b>Joint</b>	<b>GlobalY</b>	<b>GlobalZ</b>
Text	m	m
24	-7,300E-15	5,95612
25	-7,400E-15	6,40339
26	-7,500E-15	6,79180
27	-7,500E-15	7,14123
28	-7,600E-15	7,44148
29	-7,600E-15	7,67773
30	-7,700E-15	7,84794
31	-7,700E-15	7,95066
32	-7,700E-15	7,98500
33	-7,700E-15	7,95066
34	-7,700E-15	7,84794
35	-7,600E-15	7,67773
36	-7,600E-15	7,44148
37	-7,500E-15	7,14123
38	-7,500E-15	6,79180
39	-7,400E-15	6,40339
40	-7,300E-15	5,95612
41	-7,200E-15	5,45414
42	-7,100E-15	4,90212
43	-7,000E-15	4,30518
44	-6,900E-15	3,66884
45	-6,800E-15	2,99902
46	-6,600E-15	2,30194
47	-6,500E-15	1,58405
48	-6,400E-15	0,85202
49	-6,200E-15	0,11085
50	-6,100E-15	-0,63032
51	-5,900E-15	-1,37149
52	-5,800E-15	-2,11266
53	-5,600E-15	-3,38071
54	-5,500E-15	-3,70474
55	-5,500E-15	-3,99624
56	-5,400E-15	-4,25443
57	-5,400E-15	-4,47862
58	-5,400E-15	-4,66821
59	-5,300E-15	-4,82269
60	-5,300E-15	-4,94164
61	-5,300E-15	-5,02476
62	-5,300E-15	-5,07181
1001	-5,600E-15	-3,38071
1002	3,000E-16	-3,37952

**Table: Joint Loads - Force, Part 1 of 2**

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
11	Kv*PP	GLOBAL	0,000	0,000	-3,380	0,0000	0,0000
11	Kh*PP	GLOBAL	6,750	0,000	0,000	0,0000	0,0000
12	Fh_ka	GLOBAL	-79,430	0,000	0,000	0,0000	0,0000
12	Fh_k0	GLOBAL	-125,000	0,000	0,000	0,0000	0,0000
12	Fh_kd	GLOBAL	-149,870	0,000	0,000	0,0000	0,0000
12	Fhq_ka	GLOBAL	-5,440	0,000	0,000	0,0000	0,0000
12	Fhq_k0	GLOBAL	-8,570	0,000	0,000	0,0000	0,0000
12	Edx	GLOBAL	-53,820	0,000	0,000	0,0000	0,0000
12	Pvdx*kh*kv	GLOBAL	-2,510	0,000	0,000	0,0000	0,0000
12	Kv*PP	GLOBAL	0,000	0,000	-2,960	0,0000	0,0000
12	Kh*PP	GLOBAL	5,920	0,000	0,000	0,0000	0,0000
16	Fvq	GLOBAL	0,000	0,000	-1,117	0,0000	0,0000
16	Fv	GLOBAL	0,000	0,000	-13,000	0,0000	0,0000
16	Fh_ka	GLOBAL	-46,440	0,000	0,000	0,0000	0,0000
16	Fh_k0	GLOBAL	-73,080	0,000	0,000	0,0000	0,0000
16	Fh_kd	GLOBAL	-87,620	0,000	0,000	0,0000	0,0000
16	Fhq_ka	GLOBAL	-3,990	0,000	0,000	0,0000	0,0000
16	Fhq_k0	GLOBAL	-6,280	0,000	0,000	0,0000	0,0000
16	Fv*kv	GLOBAL	0,000	0,000	-1,530	0,0000	0,0000
16	Edx	GLOBAL	-39,480	0,000	0,000	0,0000	0,0000
16	Pvdx*kh*kv	GLOBAL	-1,840	0,000	0,000	0,0000	0,0000
16	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
16	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
17	Fvq	GLOBAL	0,000	0,000	-2,933	0,0000	0,0000
17	Fv	GLOBAL	0,000	0,000	-32,000	0,0000	0,0000
17	Fh_ka	GLOBAL	-42,830	0,000	0,000	0,0000	0,0000
17	Fh_k0	GLOBAL	-67,400	0,000	0,000	0,0000	0,0000
17	Fh_kd	GLOBAL	-80,810	0,000	0,000	0,0000	0,0000
17	Fhq_ka	GLOBAL	-3,930	0,000	0,000	0,0000	0,0000
17	Fhq_k0	GLOBAL	-6,180	0,000	0,000	0,0000	0,0000
17	Fv*kv	GLOBAL	0,000	0,000	-3,770	0,0000	0,0000
17	Edx	GLOBAL	-38,860	0,000	0,000	0,0000	0,0000
17	Pvdx*kh*kv	GLOBAL	-1,810	0,000	0,000	0,0000	0,0000
17	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
17	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
18	Fvq	GLOBAL	0,000	0,000	-4,314	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
18	Fv	GLOBAL	0,000	0,000	-44,000	0,0000	0,0000
18	Fh_ka	GLOBAL	-39,050	0,000	0,000	0,0000	0,0000
18	Fh_k0	GLOBAL	-61,440	0,000	0,000	0,0000	0,0000
18	Fh_kd	GLOBAL	-73,670	0,000	0,000	0,0000	0,0000
18	Fhq_ka	GLOBAL	-3,830	0,000	0,000	0,0000	0,0000
18	Fhq_k0	GLOBAL	-6,030	0,000	0,000	0,0000	0,0000
18	Fv*kv	GLOBAL	0,000	0,000	-5,190	0,0000	0,0000
18	Edx	GLOBAL	-37,920	0,000	0,000	0,0000	0,0000
18	Pvdx*kh*kv	GLOBAL	-1,770	0,000	0,000	0,0000	0,0000
18	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
18	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
19	Fvq	GLOBAL	0,000	0,000	-5,656	0,0000	0,0000
19	Fv	GLOBAL	0,000	0,000	-53,800	0,0000	0,0000
19	Fh_ka	GLOBAL	-35,140	0,000	0,000	0,0000	0,0000
19	Fh_k0	GLOBAL	-55,290	0,000	0,000	0,0000	0,0000
19	Fh_kd	GLOBAL	-66,300	0,000	0,000	0,0000	0,0000
19	Fhq_ka	GLOBAL	-3,700	0,000	0,000	0,0000	0,0000
19	Fhq_k0	GLOBAL	-5,830	0,000	0,000	0,0000	0,0000
19	Fv*kv	GLOBAL	0,000	0,000	-6,350	0,0000	0,0000
19	Edx	GLOBAL	-36,640	0,000	0,000	0,0000	0,0000
19	Pvdx*kh*kv	GLOBAL	-1,710	0,000	0,000	0,0000	0,0000
19	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
19	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
20	Fvq	GLOBAL	0,000	0,000	-6,945	0,0000	0,0000
20	Fv	GLOBAL	0,000	0,000	-61,600	0,0000	0,0000
20	Fh_ka	GLOBAL	-31,210	0,000	0,000	0,0000	0,0000
20	Fh_k0	GLOBAL	-49,100	0,000	0,000	0,0000	0,0000
20	Fh_kd	GLOBAL	-58,880	0,000	0,000	0,0000	0,0000
20	Fhq_ka	GLOBAL	-3,540	0,000	0,000	0,0000	0,0000
20	Fhq_k0	GLOBAL	-5,570	0,000	0,000	0,0000	0,0000
20	Fv*kv	GLOBAL	0,000	0,000	-7,260	0,0000	0,0000
20	Edx	GLOBAL	-35,010	0,000	0,000	0,0000	0,0000
20	Pvdx*kh*kv	GLOBAL	-1,630	0,000	0,000	0,0000	0,0000
20	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
20	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
21	Fvq	GLOBAL	0,000	0,000	-8,169	0,0000	0,0000
21	Fv	GLOBAL	0,000	0,000	-67,400	0,0000	0,0000
21	Fh_ka	GLOBAL	-27,340	0,000	0,000	0,0000	0,0000
21	Fh_k0	GLOBAL	-43,020	0,000	0,000	0,0000	0,0000
21	Fh_kd	GLOBAL	-51,580	0,000	0,000	0,0000	0,0000
21	Fhq_ka	GLOBAL	-3,340	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
21	Fhq_k0	GLOBAL	-5,260	0,000	0,000	0,0000	0,0000
21	Fv*kv	GLOBAL	0,000	0,000	-7,950	0,0000	0,0000
21	Edx	GLOBAL	-33,050	0,000	0,000	0,0000	0,0000
21	Pvdx*kh*kv	GLOBAL	-1,540	0,000	0,000	0,0000	0,0000
21	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
21	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
22	Fvq	GLOBAL	0,000	0,000	-9,318	0,0000	0,0000
22	Fv	GLOBAL	0,000	0,000	-71,600	0,0000	0,0000
22	Fh_ka	GLOBAL	-23,610	0,000	0,000	0,0000	0,0000
22	Fh_k0	GLOBAL	-37,150	0,000	0,000	0,0000	0,0000
22	Fh_kd	GLOBAL	-44,550	0,000	0,000	0,0000	0,0000
22	Fhq_ka	GLOBAL	-3,110	0,000	0,000	0,0000	0,0000
22	Fhq_k0	GLOBAL	-4,900	0,000	0,000	0,0000	0,0000
22	Fv*kv	GLOBAL	0,000	0,000	-8,440	0,0000	0,0000
22	Edx	GLOBAL	-30,790	0,000	0,000	0,0000	0,0000
22	Pvdx*kh*kv	GLOBAL	-1,440	0,000	0,000	0,0000	0,0000
22	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
22	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
23	Fvq	GLOBAL	0,000	0,000	-10,380	0,0000	0,0000
23	Fv	GLOBAL	0,000	0,000	-74,400	0,0000	0,0000
23	Fh_ka	GLOBAL	-20,080	0,000	0,000	0,0000	0,0000
23	Fh_k0	GLOBAL	-31,600	0,000	0,000	0,0000	0,0000
23	Fh_kd	GLOBAL	-37,890	0,000	0,000	0,0000	0,0000
23	Fhq_ka	GLOBAL	-2,860	0,000	0,000	0,0000	0,0000
23	Fhq_k0	GLOBAL	-4,490	0,000	0,000	0,0000	0,0000
23	Fv*kv	GLOBAL	0,000	0,000	-8,770	0,0000	0,0000
23	Edx	GLOBAL	-28,250	0,000	0,000	0,0000	0,0000
23	Pvdx*kh*kv	GLOBAL	-1,320	0,000	0,000	0,0000	0,0000
23	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
23	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
24	Fvq	GLOBAL	0,000	0,000	-11,346	0,0000	0,0000
24	Fv	GLOBAL	0,000	0,000	-76,000	0,0000	0,0000
24	Fh_ka	GLOBAL	-16,790	0,000	0,000	0,0000	0,0000
24	Fh_k0	GLOBAL	-26,430	0,000	0,000	0,0000	0,0000
24	Fh_kd	GLOBAL	-31,690	0,000	0,000	0,0000	0,0000
24	Fhq_ka	GLOBAL	-2,570	0,000	0,000	0,0000	0,0000
24	Fhq_k0	GLOBAL	-4,050	0,000	0,000	0,0000	0,0000
24	Fv*kv	GLOBAL	0,000	0,000	-8,960	0,0000	0,0000
24	Edx	GLOBAL	-25,440	0,000	0,000	0,0000	0,0000
24	Pvdx*kh*kv	GLOBAL	-1,190	0,000	0,000	0,0000	0,0000
24	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
24	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
25	Fvq	GLOBAL	0,000	0,000	-12,206	0,0000	0,0000
25	Fv	GLOBAL	0,000	0,000	-76,700	0,0000	0,0000
25	Fh_ka	GLOBAL	-13,770	0,000	0,000	0,0000	0,0000
25	Fh_k0	GLOBAL	-21,670	0,000	0,000	0,0000	0,0000
25	Fh_kd	GLOBAL	-25,990	0,000	0,000	0,0000	0,0000
25	Fhq_ka	GLOBAL	-2,260	0,000	0,000	0,0000	0,0000
25	Fhq_k0	GLOBAL	-3,560	0,000	0,000	0,0000	0,0000
25	Fv*kv	GLOBAL	0,000	0,000	-9,040	0,0000	0,0000
25	Edx	GLOBAL	-22,400	0,000	0,000	0,0000	0,0000
25	Pvdx*kh*kv	GLOBAL	-1,050	0,000	0,000	0,0000	0,0000
25	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
25	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
26	Fvq	GLOBAL	0,000	0,000	-12,836	0,0000	0,0000
26	Fv	GLOBAL	0,000	0,000	-76,200	0,0000	0,0000
26	Fh_ka	GLOBAL	-11,380	0,000	0,000	0,0000	0,0000
26	Fh_k0	GLOBAL	-17,910	0,000	0,000	0,0000	0,0000
26	Fh_kd	GLOBAL	-21,480	0,000	0,000	0,0000	0,0000
26	Fhq_ka	GLOBAL	-2,000	0,000	0,000	0,0000	0,0000
26	Fhq_k0	GLOBAL	-3,150	0,000	0,000	0,0000	0,0000
26	Fv*kv	GLOBAL	0,000	0,000	-8,980	0,0000	0,0000
26	Edx	GLOBAL	-19,780	0,000	0,000	0,0000	0,0000
26	Pvdx*kh*kv	GLOBAL	-0,920	0,000	0,000	0,0000	0,0000
26	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
26	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
27	Fvq	GLOBAL	0,000	0,000	-13,300	0,0000	0,0000
27	Fv	GLOBAL	0,000	0,000	-74,800	0,0000	0,0000
27	Fh_ka	GLOBAL	-9,410	0,000	0,000	0,0000	0,0000
27	Fh_k0	GLOBAL	-14,800	0,000	0,000	0,0000	0,0000
27	Fh_kd	GLOBAL	-17,750	0,000	0,000	0,0000	0,0000
27	Fhq_ka	GLOBAL	-1,760	0,000	0,000	0,0000	0,0000
27	Fhq_k0	GLOBAL	-2,770	0,000	0,000	0,0000	0,0000
27	Fv*kv	GLOBAL	0,000	0,000	-8,820	0,0000	0,0000
27	Edx	GLOBAL	-17,410	0,000	0,000	0,0000	0,0000
27	Pvdx*kh*kv	GLOBAL	-0,810	0,000	0,000	0,0000	0,0000
27	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
27	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
28	Fvq	GLOBAL	0,000	0,000	-13,788	0,0000	0,0000
28	Fv	GLOBAL	0,000	0,000	-74,000	0,0000	0,0000
28	Fh_ka	GLOBAL	-7,330	0,000	0,000	0,0000	0,0000
28	Fh_k0	GLOBAL	-11,540	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
28	Fh_kd	GLOBAL	-13,830	0,000	0,000	0,0000	0,0000
28	Fhq_ka	GLOBAL	-1,450	0,000	0,000	0,0000	0,0000
28	Fhq_k0	GLOBAL	-2,290	0,000	0,000	0,0000	0,0000
28	Fv*kv	GLOBAL	0,000	0,000	-8,720	0,0000	0,0000
28	Edx	GLOBAL	-14,380	0,000	0,000	0,0000	0,0000
28	Pvdx*kh*kv	GLOBAL	-0,670	0,000	0,000	0,0000	0,0000
28	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
28	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
29	Fvq	GLOBAL	0,000	0,000	-14,225	0,0000	0,0000
29	Fv	GLOBAL	0,000	0,000	-73,600	0,0000	0,0000
29	Fh_ka	GLOBAL	-5,300	0,000	0,000	0,0000	0,0000
29	Fh_k0	GLOBAL	-8,330	0,000	0,000	0,0000	0,0000
29	Fh_kd	GLOBAL	-9,990	0,000	0,000	0,0000	0,0000
29	Fhq_ka	GLOBAL	-1,100	0,000	0,000	0,0000	0,0000
29	Fhq_k0	GLOBAL	-1,730	0,000	0,000	0,0000	0,0000
29	Fv*kv	GLOBAL	0,000	0,000	-8,680	0,0000	0,0000
29	Edx	GLOBAL	-10,890	0,000	0,000	0,0000	0,0000
29	Pvdx*kh*kv	GLOBAL	-0,510	0,000	0,000	0,0000	0,0000
29	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
29	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
30	Fvq	GLOBAL	0,000	0,000	-14,541	0,0000	0,0000
30	Fv	GLOBAL	0,000	0,000	-73,400	0,0000	0,0000
30	Fh_ka	GLOBAL	-3,430	0,000	0,000	0,0000	0,0000
30	Fh_k0	GLOBAL	-5,400	0,000	0,000	0,0000	0,0000
30	Fh_kd	GLOBAL	-6,470	0,000	0,000	0,0000	0,0000
30	Fhq_ka	GLOBAL	-0,740	0,000	0,000	0,0000	0,0000
30	Fhq_k0	GLOBAL	-1,160	0,000	0,000	0,0000	0,0000
30	Fv*kv	GLOBAL	0,000	0,000	-8,650	0,0000	0,0000
30	Edx	GLOBAL	-7,320	0,000	0,000	0,0000	0,0000
30	Pvdx*kh*kv	GLOBAL	-0,340	0,000	0,000	0,0000	0,0000
30	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
30	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
31	Fvq	GLOBAL	0,000	0,000	-14,731	0,0000	0,0000
31	Fv	GLOBAL	0,000	0,000	-73,500	0,0000	0,0000
31	Fh_ka	GLOBAL	-1,680	0,000	0,000	0,0000	0,0000
31	Fh_k0	GLOBAL	-2,650	0,000	0,000	0,0000	0,0000
31	Fh_kd	GLOBAL	-3,180	0,000	0,000	0,0000	0,0000
31	Fhq_ka	GLOBAL	-0,370	0,000	0,000	0,0000	0,0000
31	Fhq_k0	GLOBAL	-0,580	0,000	0,000	0,0000	0,0000
31	Fv*kv	GLOBAL	0,000	0,000	-8,670	0,0000	0,0000
31	Edx	GLOBAL	-3,670	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
31	Pvdx*kh*kv	GLOBAL	-0,170	0,000	0,000	0,0000	0,0000
31	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
31	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
32	Fvq	GLOBAL	0,000	0,000	-14,795	0,0000	0,0000
32	Fv	GLOBAL	0,000	0,000	-74,000	0,0000	0,0000
32	Fh_ka	GLOBAL	0,510	0,000	0,000	0,0000	0,0000
32	Fh_ka	GLOBAL	-0,420	0,000	0,000	0,0000	0,0000
32	Fh_k0	GLOBAL	0,810	0,000	0,000	0,0000	0,0000
32	Fh_k0	GLOBAL	-0,660	0,000	0,000	0,0000	0,0000
32	Fh_kd	GLOBAL	0,970	0,000	0,000	0,0000	0,0000
32	Fh_kd	GLOBAL	-0,790	0,000	0,000	0,0000	0,0000
32	Fhq_ka	GLOBAL	-0,090	0,000	0,000	0,0000	0,0000
32	Fhq_k0	GLOBAL	0,150	0,000	0,000	0,0000	0,0000
32	Fhq_k0	GLOBAL	-0,150	0,000	0,000	0,0000	0,0000
32	Fv*kv	GLOBAL	0,000	0,000	-8,720	0,0000	0,0000
32	Esx	GLOBAL	0,920	0,000	0,000	0,0000	0,0000
32	Edx	GLOBAL	-0,920	0,000	0,000	0,0000	0,0000
32	Pvsx*kh*kv	GLOBAL	0,050	0,000	0,000	0,0000	0,0000
32	Pvdx*kh*kv	GLOBAL	-0,040	0,000	0,000	0,0000	0,0000
32	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
32	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
1	Kv*PP	GLOBAL	0,000	0,000	-1,650	0,0000	0,0000
1	Kh*PP	GLOBAL	3,300	0,000	0,000	0,0000	0,0000
2	Kv*PP	GLOBAL	0,000	0,000	-1,860	0,0000	0,0000
2	Kh*PP	GLOBAL	3,710	0,000	0,000	0,0000	0,0000
3	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
3	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
4	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
4	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
5	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
5	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
6	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
6	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
7	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
7	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
8	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
8	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
9	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
9	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
10	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
10	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
62	Kv*PP	GLOBAL	0,000	0,000	-1,860	0,0000	0,0000
62	Kh*PP	GLOBAL	3,710	0,000	0,000	0,0000	0,0000
61	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
61	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
1001	Fh_k0	GLOBAL	91,200	0,000	0,000	0,0000	0,0000
1001	Fh_kd	GLOBAL	109,350	0,000	0,000	0,0000	0,0000
1001	Fhq_ka	GLOBAL	3,440	0,000	0,000	0,0000	0,0000
1001	Fhq_k0	GLOBAL	5,410	0,000	0,000	0,0000	0,0000
1001	Fh_ka	GLOBAL	57,960	0,000	0,000	0,0000	0,0000
1001	Esx	GLOBAL	33,990	0,000	0,000	0,0000	0,0000
1001	Pvsx*kh*kv	GLOBAL	1,940	0,000	0,000	0,0000	0,0000
1001	Kv*PP	GLOBAL	0,000	0,000	-4,210	0,0000	0,0000
1001	Kh*PP	GLOBAL	8,420	0,000	0,000	0,0000	0,0000
53	Kv*PP	GLOBAL	0,000	0,000	-3,380	0,0000	0,0000
53	Kh*PP	GLOBAL	6,750	0,000	0,000	0,0000	0,0000
52	Fh_ka	GLOBAL	84,930	0,000	0,000	0,0000	0,0000
52	Fh_k0	GLOBAL	133,640	0,000	0,000	0,0000	0,0000
52	Fh_kd	GLOBAL	160,230	0,000	0,000	0,0000	0,0000
52	Fhq_ka	GLOBAL	5,440	0,000	0,000	0,0000	0,0000
52	Fhq_k0	GLOBAL	8,570	0,000	0,000	0,0000	0,0000
52	Esx	GLOBAL	53,850	0,000	0,000	0,0000	0,0000
52	Pvsx*kh*kv	GLOBAL	3,070	0,000	0,000	0,0000	0,0000
52	Kv*PP	GLOBAL	0,000	0,000	-2,960	0,0000	0,0000
52	Kh*PP	GLOBAL	5,920	0,000	0,000	0,0000	0,0000
48	Fvq	GLOBAL	0,000	0,000	-1,117	0,0000	0,0000
48	Fv	GLOBAL	0,000	0,000	-14,110	0,0000	0,0000
48	Fh_ka	GLOBAL	50,430	0,000	0,000	0,0000	0,0000
48	Fh_k0	GLOBAL	79,360	0,000	0,000	0,0000	0,0000
48	Fh_kd	GLOBAL	95,160	0,000	0,000	0,0000	0,0000
48	Fhq_ka	GLOBAL	3,990	0,000	0,000	0,0000	0,0000
48	Fhq_k0	GLOBAL	6,280	0,000	0,000	0,0000	0,0000
48	Fv*kv	GLOBAL	0,000	0,000	-1,660	0,0000	0,0000
48	Esx	GLOBAL	39,480	0,000	0,000	0,0000	0,0000
48	Pvsx*kh*kv	GLOBAL	2,250	0,000	0,000	0,0000	0,0000
48	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
48	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
47	Fvq	GLOBAL	0,000	0,000	-2,933	0,0000	0,0000
47	Fv	GLOBAL	0,000	0,000	-34,900	0,0000	0,0000
47	Fh_ka	GLOBAL	46,760	0,000	0,000	0,0000	0,0000
47	Fh_k0	GLOBAL	73,580	0,000	0,000	0,0000	0,0000
47	Fh_kd	GLOBAL	88,220	0,000	0,000	0,0000	0,0000



Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
47	Fhq_ka	GLOBAL	3,930	0,000	0,000	0,0000	0,0000
47	Fhq_k0	GLOBAL	6,180	0,000	0,000	0,0000	0,0000
47	Fv*kv	GLOBAL	0,000	0,000	-4,110	0,0000	0,0000
47	Esx	GLOBAL	38,860	0,000	0,000	0,0000	0,0000
47	Pvsx*kh*kv	GLOBAL	2,220	0,000	0,000	0,0000	0,0000
47	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
47	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
46	Fvq	GLOBAL	0,000	0,000	-4,314	0,0000	0,0000
46	Fv	GLOBAL	0,000	0,000	-48,200	0,0000	0,0000
46	Fh_ka	GLOBAL	42,880	0,000	0,000	0,0000	0,0000
46	Fh_k0	GLOBAL	67,480	0,000	0,000	0,0000	0,0000
46	Fh_kd	GLOBAL	80,900	0,000	0,000	0,0000	0,0000
46	Fhq_ka	GLOBAL	3,830	0,000	0,000	0,0000	0,0000
46	Fhq_k0	GLOBAL	6,030	0,000	0,000	0,0000	0,0000
46	Fv*kv	GLOBAL	0,000	0,000	-5,680	0,0000	0,0000
46	Esx	GLOBAL	37,920	0,000	0,000	0,0000	0,0000
46	Pvsx*kh*kv	GLOBAL	2,160	0,000	0,000	0,0000	0,0000
46	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
46	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
45	Fvq	GLOBAL	0,000	0,000	-5,656	0,0000	0,0000
45	Fv	GLOBAL	0,000	0,000	-59,100	0,0000	0,0000
45	Fh_ka	GLOBAL	38,840	0,000	0,000	0,0000	0,0000
45	Fh_k0	GLOBAL	61,120	0,000	0,000	0,0000	0,0000
45	Fh_kd	GLOBAL	73,280	0,000	0,000	0,0000	0,0000
45	Fhq_ka	GLOBAL	3,700	0,000	0,000	0,0000	0,0000
45	Fhq_k0	GLOBAL	5,830	0,000	0,000	0,0000	0,0000
45	Fv*kv	GLOBAL	0,000	0,000	-6,970	0,0000	0,0000
45	Esx	GLOBAL	36,640	0,000	0,000	0,0000	0,0000
45	Pvsx*kh*kv	GLOBAL	2,090	0,000	0,000	0,0000	0,0000
45	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
45	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
44	Fvq	GLOBAL	0,000	0,000	-6,945	0,0000	0,0000
44	Fv	GLOBAL	0,000	0,000	-67,800	0,0000	0,0000
44	Fh_ka	GLOBAL	34,740	0,000	0,000	0,0000	0,0000
44	Fh_k0	GLOBAL	54,670	0,000	0,000	0,0000	0,0000
44	Fh_kd	GLOBAL	65,550	0,000	0,000	0,0000	0,0000
44	Fhq_ka	GLOBAL	3,540	0,000	0,000	0,0000	0,0000
44	Fhq_k0	GLOBAL	5,570	0,000	0,000	0,0000	0,0000
44	Fv*kv	GLOBAL	0,000	0,000	-7,990	0,0000	0,0000
44	Esx	GLOBAL	35,010	0,000	0,000	0,0000	0,0000
44	Pvsx*kh*kv	GLOBAL	2,000	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
44	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
44	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
43	Fvq	GLOBAL	0,000	0,000	-8,169	0,0000	0,0000
43	Fv	GLOBAL	0,000	0,000	-74,400	0,0000	0,0000
43	Fh_ka	GLOBAL	30,680	0,000	0,000	0,0000	0,0000
43	Fh_k0	GLOBAL	48,280	0,000	0,000	0,0000	0,0000
43	Fh_kd	GLOBAL	57,880	0,000	0,000	0,0000	0,0000
43	Fhq_ka	GLOBAL	3,340	0,000	0,000	0,0000	0,0000
43	Fhq_k0	GLOBAL	5,260	0,000	0,000	0,0000	0,0000
43	Fv*kv	GLOBAL	0,000	0,000	-8,770	0,0000	0,0000
43	Esx	GLOBAL	33,050	0,000	0,000	0,0000	0,0000
43	Pvsx*kh*kv	GLOBAL	1,890	0,000	0,000	0,0000	0,0000
43	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
43	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
42	Fvq	GLOBAL	0,000	0,000	-9,318	0,0000	0,0000
42	Fv	GLOBAL	0,000	0,000	-79,000	0,0000	0,0000
42	Fh_ka	GLOBAL	26,720	0,000	0,000	0,0000	0,0000
42	Fh_k0	GLOBAL	42,050	0,000	0,000	0,0000	0,0000
42	Fh_kd	GLOBAL	50,420	0,000	0,000	0,0000	0,0000
42	Fhq_ka	GLOBAL	3,110	0,000	0,000	0,0000	0,0000
42	Fhq_k0	GLOBAL	4,900	0,000	0,000	0,0000	0,0000
42	Fv*kv	GLOBAL	0,000	0,000	-9,320	0,0000	0,0000
42	Esx	GLOBAL	30,790	0,000	0,000	0,0000	0,0000
42	Pvsx*kh*kv	GLOBAL	1,760	0,000	0,000	0,0000	0,0000
42	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
42	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
41	Fvq	GLOBAL	0,000	0,000	-10,380	0,0000	0,0000
41	Fv	GLOBAL	0,000	0,000	-82,000	0,0000	0,0000
41	Fh_ka	GLOBAL	22,940	0,000	0,000	0,0000	0,0000
41	Fh_k0	GLOBAL	36,090	0,000	0,000	0,0000	0,0000
41	Fh_kd	GLOBAL	43,280	0,000	0,000	0,0000	0,0000
41	Fhq_ka	GLOBAL	2,860	0,000	0,000	0,0000	0,0000
41	Fhq_k0	GLOBAL	4,490	0,000	0,000	0,0000	0,0000
41	Fv*kv	GLOBAL	0,000	0,000	-9,670	0,0000	0,0000
41	Esx	GLOBAL	28,250	0,000	0,000	0,0000	0,0000
41	Pvsx*kh*kv	GLOBAL	1,610	0,000	0,000	0,0000	0,0000
41	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
41	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
40	Fvq	GLOBAL	0,000	0,000	-11,346	0,0000	0,0000
40	Fv	GLOBAL	0,000	0,000	-83,500	0,0000	0,0000
40	Fh_ka	GLOBAL	19,370	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
40	Fh_k0	GLOBAL	30,480	0,000	0,000	0,0000	0,0000
40	Fh_kd	GLOBAL	36,540	0,000	0,000	0,0000	0,0000
40	Fhq_ka	GLOBAL	2,570	0,000	0,000	0,0000	0,0000
40	Fhq_k0	GLOBAL	4,050	0,000	0,000	0,0000	0,0000
40	Fv*kv	GLOBAL	0,000	0,000	-9,850	0,0000	0,0000
40	Esx	GLOBAL	25,440	0,000	0,000	0,0000	0,0000
40	Pvsx*kh*kv	GLOBAL	1,450	0,000	0,000	0,0000	0,0000
40	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
40	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
39	Fvq	GLOBAL	0,000	0,000	-12,206	0,0000	0,0000
39	Fv	GLOBAL	0,000	0,000	-84,000	0,0000	0,0000
39	Fh_ka	GLOBAL	16,040	0,000	0,000	0,0000	0,0000
39	Fh_k0	GLOBAL	25,240	0,000	0,000	0,0000	0,0000
39	Fh_kd	GLOBAL	30,260	0,000	0,000	0,0000	0,0000
39	Fhq_ka	GLOBAL	2,260	0,000	0,000	0,0000	0,0000
39	Fhq_k0	GLOBAL	3,560	0,000	0,000	0,0000	0,0000
39	Fv*kv	GLOBAL	0,000	0,000	-9,900	0,0000	0,0000
39	Esx	GLOBAL	22,400	0,000	0,000	0,0000	0,0000
39	Pvsx*kh*kv	GLOBAL	1,280	0,000	0,000	0,0000	0,0000
39	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
39	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
38	Fvq	GLOBAL	0,000	0,000	-12,836	0,0000	0,0000
38	Fv	GLOBAL	0,000	0,000	-82,800	0,0000	0,0000
38	Fh_ka	GLOBAL	13,380	0,000	0,000	0,0000	0,0000
38	Fh_k0	GLOBAL	21,060	0,000	0,000	0,0000	0,0000
38	Fh_kd	GLOBAL	25,250	0,000	0,000	0,0000	0,0000
38	Fhq_ka	GLOBAL	2,000	0,000	0,000	0,0000	0,0000
38	Fhq_k0	GLOBAL	3,150	0,000	0,000	0,0000	0,0000
38	Fv*kv	GLOBAL	0,000	0,000	-9,760	0,0000	0,0000
38	Esx	GLOBAL	19,780	0,000	0,000	0,0000	0,0000
38	Pvsx*kh*kv	GLOBAL	1,130	0,000	0,000	0,0000	0,0000
38	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
38	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
37	Fvq	GLOBAL	0,000	0,000	-13,300	0,0000	0,0000
37	Fv	GLOBAL	0,000	0,000	-80,600	0,0000	0,0000
37	Fh_ka	GLOBAL	11,170	0,000	0,000	0,0000	0,0000
37	Fh_k0	GLOBAL	17,570	0,000	0,000	0,0000	0,0000
37	Fh_kd	GLOBAL	21,070	0,000	0,000	0,0000	0,0000
37	Fhq_ka	GLOBAL	1,760	0,000	0,000	0,0000	0,0000
37	Fhq_k0	GLOBAL	2,770	0,000	0,000	0,0000	0,0000
37	Fv*kv	GLOBAL	0,000	0,000	-9,510	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
37	Esx	GLOBAL	17,410	0,000	0,000	0,0000	0,0000
37	Pvsx*kh*kv	GLOBAL	0,990	0,000	0,000	0,0000	0,0000
37	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
37	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
36	Fvq	GLOBAL	0,000	0,000	-13,788	0,0000	0,0000
36	Fv	GLOBAL	0,000	0,000	-78,900	0,0000	0,0000
36	Fh_ka	GLOBAL	8,790	0,000	0,000	0,0000	0,0000
36	Fh_k0	GLOBAL	13,830	0,000	0,000	0,0000	0,0000
36	Fh_kd	GLOBAL	16,580	0,000	0,000	0,0000	0,0000
36	Fhq_ka	GLOBAL	1,450	0,000	0,000	0,0000	0,0000
36	Fhq_k0	GLOBAL	2,290	0,000	0,000	0,0000	0,0000
36	Fv*kv	GLOBAL	0,000	0,000	-9,300	0,0000	0,0000
36	Esx	GLOBAL	14,380	0,000	0,000	0,0000	0,0000
36	Pvsx*kh*kv	GLOBAL	0,820	0,000	0,000	0,0000	0,0000
36	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
36	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
35	Fvq	GLOBAL	0,000	0,000	-14,225	0,0000	0,0000
35	Fv	GLOBAL	0,000	0,000	-77,400	0,0000	0,0000
35	Fh_ka	GLOBAL	6,400	0,000	0,000	0,0000	0,0000
35	Fh_k0	GLOBAL	10,070	0,000	0,000	0,0000	0,0000
35	Fh_kd	GLOBAL	12,070	0,000	0,000	0,0000	0,0000
35	Fhq_ka	GLOBAL	1,100	0,000	0,000	0,0000	0,0000
35	Fhq_k0	GLOBAL	1,730	0,000	0,000	0,0000	0,0000
35	Fv*kv	GLOBAL	0,000	0,000	-9,120	0,0000	0,0000
35	Esx	GLOBAL	10,890	0,000	0,000	0,0000	0,0000
35	Pvsx*kh*kv	GLOBAL	0,620	0,000	0,000	0,0000	0,0000
35	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
35	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
34	Fvq	GLOBAL	0,000	0,000	-14,541	0,0000	0,0000
34	Fv	GLOBAL	0,000	0,000	-76,000	0,0000	0,0000
34	Fh_ka	GLOBAL	4,170	0,000	0,000	0,0000	0,0000
34	Fh_k0	GLOBAL	6,560	0,000	0,000	0,0000	0,0000
34	Fh_kd	GLOBAL	7,870	0,000	0,000	0,0000	0,0000
34	Fhq_ka	GLOBAL	0,740	0,000	0,000	0,0000	0,0000
34	Fhq_k0	GLOBAL	1,160	0,000	0,000	0,0000	0,0000
34	Fv*kv	GLOBAL	0,000	0,000	-8,960	0,0000	0,0000
34	Esx	GLOBAL	7,320	0,000	0,000	0,0000	0,0000
34	Pvsx*kh*kv	GLOBAL	0,420	0,000	0,000	0,0000	0,0000
34	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
34	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
33	Fvq	GLOBAL	0,000	0,000	-14,731	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
33	Fv	GLOBAL	0,000	0,000	-74,800	0,0000	0,0000
33	Fh_ka	GLOBAL	2,060	0,000	0,000	0,0000	0,0000
33	Fh_k0	GLOBAL	3,230	0,000	0,000	0,0000	0,0000
33	Fh_kd	GLOBAL	3,880	0,000	0,000	0,0000	0,0000
33	Fhq_ka	GLOBAL	0,370	0,000	0,000	0,0000	0,0000
33	Fhq_k0	GLOBAL	0,580	0,000	0,000	0,0000	0,0000
33	Fv*kv	GLOBAL	0,000	0,000	-8,820	0,0000	0,0000
33	Esx	GLOBAL	3,670	0,000	0,000	0,0000	0,0000
33	Pvsx*kh*kv	GLOBAL	0,210	0,000	0,000	0,0000	0,0000
33	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
33	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
60	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
60	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
59	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
59	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
58	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
58	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
57	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
57	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
56	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
56	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
55	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
55	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
54	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
54	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
15	Fh_ka	GLOBAL	-49,710	0,000	0,000	0,0000	0,0000
15	Fh_k0	GLOBAL	-78,220	0,000	0,000	0,0000	0,0000
15	Fh_kd	GLOBAL	-93,780	0,000	0,000	0,0000	0,0000
15	Fhq_ka	GLOBAL	-4,020	0,000	0,000	0,0000	0,0000
15	Fhq_k0	GLOBAL	-6,320	0,000	0,000	0,0000	0,0000
15	Edx	GLOBAL	-39,730	0,000	0,000	0,0000	0,0000
15	Pvdx*kh*kv	GLOBAL	-1,850	0,000	0,000	0,0000	0,0000
15	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
15	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
14	Fh_ka	GLOBAL	-52,680	0,000	0,000	0,0000	0,0000
14	Fh_k0	GLOBAL	-82,900	0,000	0,000	0,0000	0,0000
14	Fh_kd	GLOBAL	-99,400	0,000	0,000	0,0000	0,0000
14	Fhq_ka	GLOBAL	-4,020	0,000	0,000	0,0000	0,0000
14	Fhq_k0	GLOBAL	-6,320	0,000	0,000	0,0000	0,0000
14	Edx	GLOBAL	-39,730	0,000	0,000	0,0000	0,0000
14	Pvdx*kh*kv	GLOBAL	-1,850	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
14	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
14	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
13	Fh_ka	GLOBAL	-55,660	0,000	0,000	0,0000	0,0000
13	Fh_k0	GLOBAL	-87,590	0,000	0,000	0,0000	0,0000
13	Fh_kd	GLOBAL	-105,020	0,000	0,000	0,0000	0,0000
13	Fhq_ka	GLOBAL	-4,020	0,000	0,000	0,0000	0,0000
13	Fhq_k0	GLOBAL	-6,320	0,000	0,000	0,0000	0,0000
13	Edx	GLOBAL	-39,730	0,000	0,000	0,0000	0,0000
13	Pvdx*kh*kv	GLOBAL	-1,850	0,000	0,000	0,0000	0,0000
13	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
13	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
50	Fh_ka	GLOBAL	56,700	0,000	0,000	0,0000	0,0000
50	Fh_k0	GLOBAL	89,220	0,000	0,000	0,0000	0,0000
50	Fh_kd	GLOBAL	106,980	0,000	0,000	0,0000	0,0000
50	Fhq_ka	GLOBAL	4,020	0,000	0,000	0,0000	0,0000
50	Fhq_k0	GLOBAL	6,320	0,000	0,000	0,0000	0,0000
50	Esx	GLOBAL	39,730	0,000	0,000	0,0000	0,0000
50	Pvsx*kh*kv	GLOBAL	2,270	0,000	0,000	0,0000	0,0000
50	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
50	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
51	Fh_ka	GLOBAL	59,680	0,000	0,000	0,0000	0,0000
51	Fh_k0	GLOBAL	93,910	0,000	0,000	0,0000	0,0000
51	Fh_kd	GLOBAL	112,600	0,000	0,000	0,0000	0,0000
51	Fhq_ka	GLOBAL	4,020	0,000	0,000	0,0000	0,0000
51	Fhq_k0	GLOBAL	6,320	0,000	0,000	0,0000	0,0000
51	Esx	GLOBAL	39,730	0,000	0,000	0,0000	0,0000
51	Pvsx*kh*kv	GLOBAL	2,270	0,000	0,000	0,0000	0,0000
51	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
51	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
49	Fh_ka	GLOBAL	53,720	0,000	0,000	0,0000	0,0000
49	Fh_k0	GLOBAL	84,540	0,000	0,000	0,0000	0,0000
49	Fh_kd	GLOBAL	101,360	0,000	0,000	0,0000	0,0000
49	Fhq_ka	GLOBAL	4,020	0,000	0,000	0,0000	0,0000
49	Fhq_k0	GLOBAL	6,320	0,000	0,000	0,0000	0,0000
49	Esx	GLOBAL	39,730	0,000	0,000	0,0000	0,0000
49	Pvsx*kh*kv	GLOBAL	2,270	0,000	0,000	0,0000	0,0000
49	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
49	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
1002	Fh_ka	GLOBAL	-54,460	0,000	0,000	0,0000	0,0000
1002	Fh_k0	GLOBAL	-85,700	0,000	0,000	0,0000	0,0000
1002	Fh_kd	GLOBAL	-102,760	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
1002	Fhq_ka	GLOBAL	-3,430	0,000	0,000	0,0000	0,0000
1002	Fhq_k0	GLOBAL	-5,410	0,000	0,000	0,0000	0,0000
1002	Edx	GLOBAL	-33,950	0,000	0,000	0,0000	0,0000
1002	Pvdx*kh*kv	GLOBAL	-1,590	0,000	0,000	0,0000	0,0000
1002	Kv*PP	GLOBAL	0,000	0,000	-4,210	0,0000	0,0000
1002	Kh*PP	GLOBAL	8,420	0,000	0,000	0,0000	0,0000

**Table: Joint Loads - Force, Part 2 of 2**

Joint	LoadCase	M3
Text	Text	KN-m
11	Kv*PP	0,0000
11	Kh*PP	0,0000
12	Fhq_ka	0,0000
12	Fhq_k0	0,0000
12	Fhq_kd	0,0000
12	Fhq_ka	0,0000
12	Fhq_k0	0,0000
12	Edx	0,0000
12	Pvdx*kh*kv	0,0000
12	Kv*PP	0,0000
12	Kh*PP	0,0000
16	Fvq	0,0000
16	Fv	0,0000
16	Fhq_ka	0,0000
16	Fhq_k0	0,0000
16	Fhq_kd	0,0000
16	Fhq_ka	0,0000
16	Fhq_k0	0,0000
16	Fv*kv	0,0000
16	Edx	0,0000
16	Pvdx*kh*kv	0,0000
16	Kv*PP	0,0000
16	Kh*PP	0,0000
17	Fvq	0,0000
17	Fv	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
17	Fh_ka	0,0000
17	Fh_k0	0,0000
17	Fh_kd	0,0000
17	Fhq_ka	0,0000
17	Fhq_k0	0,0000
17	Fv*kv	0,0000
17	Edx	0,0000
17	Pvdx*kh*kv	0,0000
17	Kv*PP	0,0000
17	Kh*PP	0,0000
18	Fvq	0,0000
18	Fv	0,0000
18	Fh_ka	0,0000
18	Fh_k0	0,0000
18	Fh_kd	0,0000
18	Fhq_ka	0,0000
18	Fhq_k0	0,0000
18	Fv*kv	0,0000
18	Edx	0,0000
18	Pvdx*kh*kv	0,0000
18	Kv*PP	0,0000
18	Kh*PP	0,0000
19	Fvq	0,0000
19	Fv	0,0000
19	Fh_ka	0,0000
19	Fh_k0	0,0000
19	Fh_kd	0,0000
19	Fhq_ka	0,0000
19	Fhq_k0	0,0000
19	Fv*kv	0,0000
19	Edx	0,0000
19	Pvdx*kh*kv	0,0000
19	Kv*PP	0,0000
19	Kh*PP	0,0000
20	Fvq	0,0000
20	Fv	0,0000
20	Fh_ka	0,0000
20	Fh_k0	0,0000
20	Fh_kd	0,0000
20	Fhq_ka	0,0000
20	Fhq_k0	0,0000



Joint	LoadCase	M3
Text	Text	KN-m
20	Fv*kv	0,0000
20	Edx	0,0000
20	Pvdx*kh*kv	0,0000
20	Kv*PP	0,0000
20	Kh*PP	0,0000
21	Fvq	0,0000
21	Fv	0,0000
21	Fh_ka	0,0000
21	Fh_k0	0,0000
21	Fh_kd	0,0000
21	Fhq_ka	0,0000
21	Fhq_k0	0,0000
21	Fv*kv	0,0000
21	Edx	0,0000
21	Pvdx*kh*kv	0,0000
21	Kv*PP	0,0000
21	Kh*PP	0,0000
22	Fvq	0,0000
22	Fv	0,0000
22	Fh_ka	0,0000
22	Fh_k0	0,0000
22	Fh_kd	0,0000
22	Fhq_ka	0,0000
22	Fhq_k0	0,0000
22	Fv*kv	0,0000
22	Edx	0,0000
22	Pvdx*kh*kv	0,0000
22	Kv*PP	0,0000
22	Kh*PP	0,0000
23	Fvq	0,0000
23	Fv	0,0000
23	Fh_ka	0,0000
23	Fh_k0	0,0000
23	Fh_kd	0,0000
23	Fhq_ka	0,0000
23	Fhq_k0	0,0000
23	Fv*kv	0,0000
23	Edx	0,0000
23	Pvdx*kh*kv	0,0000
23	Kv*PP	0,0000
23	Kh*PP	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
24	Fvq	0,0000
24	Fv	0,0000
24	Fh_ka	0,0000
24	Fh_k0	0,0000
24	Fh_kd	0,0000
24	Fhq_ka	0,0000
24	Fhq_k0	0,0000
24	Fv*kv	0,0000
24	Edx	0,0000
24	Pvdx*kh*kv	0,0000
24	Kv*PP	0,0000
24	Kh*PP	0,0000
25	Fvq	0,0000
25	Fv	0,0000
25	Fh_ka	0,0000
25	Fh_k0	0,0000
25	Fh_kd	0,0000
25	Fhq_ka	0,0000
25	Fhq_k0	0,0000
25	Fv*kv	0,0000
25	Edx	0,0000
25	Pvdx*kh*kv	0,0000
25	Kv*PP	0,0000
25	Kh*PP	0,0000
26	Fvq	0,0000
26	Fv	0,0000
26	Fh_ka	0,0000
26	Fh_k0	0,0000
26	Fh_kd	0,0000
26	Fhq_ka	0,0000
26	Fhq_k0	0,0000
26	Fv*kv	0,0000
26	Edx	0,0000
26	Pvdx*kh*kv	0,0000
26	Kv*PP	0,0000
26	Kh*PP	0,0000
27	Fvq	0,0000
27	Fv	0,0000
27	Fh_ka	0,0000
27	Fh_k0	0,0000
27	Fh_kd	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
27	Fhq_ka	0,0000
27	Fhq_k0	0,0000
27	Fv*kv	0,0000
27	Edx	0,0000
27	Pvdx*kh*kv	0,0000
27	Kv*PP	0,0000
27	Kh*PP	0,0000
28	Fvq	0,0000
28	Fv	0,0000
28	Fh_ka	0,0000
28	Fh_k0	0,0000
28	Fh_kd	0,0000
28	Fhq_ka	0,0000
28	Fhq_k0	0,0000
28	Fv*kv	0,0000
28	Edx	0,0000
28	Pvdx*kh*kv	0,0000
28	Kv*PP	0,0000
28	Kh*PP	0,0000
29	Fvq	0,0000
29	Fv	0,0000
29	Fh_ka	0,0000
29	Fh_k0	0,0000
29	Fh_kd	0,0000
29	Fhq_ka	0,0000
29	Fhq_k0	0,0000
29	Fv*kv	0,0000
29	Edx	0,0000
29	Pvdx*kh*kv	0,0000
29	Kv*PP	0,0000
29	Kh*PP	0,0000
30	Fvq	0,0000
30	Fv	0,0000
30	Fh_ka	0,0000
30	Fh_k0	0,0000
30	Fh_kd	0,0000
30	Fhq_ka	0,0000
30	Fhq_k0	0,0000
30	Fv*kv	0,0000
30	Edx	0,0000
30	Pvdx*kh*kv	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
30	Kv*PP	0,0000
30	Kh*PP	0,0000
31	Fvq	0,0000
31	Fv	0,0000
31	Fh_ka	0,0000
31	Fh_k0	0,0000
31	Fh_kd	0,0000
31	Fhq_ka	0,0000
31	Fhq_k0	0,0000
31	Fv*kv	0,0000
31	Edx	0,0000
31	Pvdx*kh*kv	0,0000
31	Kv*PP	0,0000
31	Kh*PP	0,0000
32	Fvq	0,0000
32	Fv	0,0000
32	Fh_ka	0,0000
32	Fh_ka	0,0000
32	Fh_k0	0,0000
32	Fh_k0	0,0000
32	Fh_kd	0,0000
32	Fh_kd	0,0000
32	Fhq_ka	0,0000
32	Fhq_k0	0,0000
32	Fhq_k0	0,0000
32	Fv*kv	0,0000
32	Esx	0,0000
32	Edx	0,0000
32	Pvsx*kh*kv	0,0000
32	Pvdx*kh*kv	0,0000
32	Kv*PP	0,0000
32	Kh*PP	0,0000
1	Kv*PP	0,0000
1	Kh*PP	0,0000
2	Kv*PP	0,0000
2	Kh*PP	0,0000
3	Kv*PP	0,0000
3	Kh*PP	0,0000
4	Kv*PP	0,0000
4	Kh*PP	0,0000
5	Kv*PP	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
5	Kh*PP	0,0000
6	Kv*PP	0,0000
6	Kh*PP	0,0000
7	Kv*PP	0,0000
7	Kh*PP	0,0000
8	Kv*PP	0,0000
8	Kh*PP	0,0000
9	Kv*PP	0,0000
9	Kh*PP	0,0000
10	Kv*PP	0,0000
10	Kh*PP	0,0000
62	Kv*PP	0,0000
62	Kh*PP	0,0000
61	Kv*PP	0,0000
61	Kh*PP	0,0000
1001	Fh_k0	0,0000
1001	Fh_kd	0,0000
1001	Fhq_ka	0,0000
1001	Fhq_k0	0,0000
1001	Fh_ka	0,0000
1001	Esx	0,0000
1001	Pvsx*kh*kv	0,0000
1001	Kv*PP	0,0000
1001	Kh*PP	0,0000
53	Kv*PP	0,0000
53	Kh*PP	0,0000
52	Fh_ka	0,0000
52	Fh_k0	0,0000
52	Fh_kd	0,0000
52	Fhq_ka	0,0000
52	Fhq_k0	0,0000
52	Esx	0,0000
52	Pvsx*kh*kv	0,0000
52	Kv*PP	0,0000
52	Kh*PP	0,0000
48	Fvq	0,0000
48	Fv	0,0000
48	Fh_ka	0,0000
48	Fh_k0	0,0000
48	Fh_kd	0,0000
48	Fhq_ka	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
48	Fhq_k0	0,0000
48	Fv*kv	0,0000
48	Esx	0,0000
48	Pvsx*kh*kv	0,0000
48	Kv*PP	0,0000
48	Kh*PP	0,0000
47	Fvq	0,0000
47	Fv	0,0000
47	Fh_ka	0,0000
47	Fh_k0	0,0000
47	Fh_kd	0,0000
47	Fhq_ka	0,0000
47	Fhq_k0	0,0000
47	Fv*kv	0,0000
47	Esx	0,0000
47	Pvsx*kh*kv	0,0000
47	Kv*PP	0,0000
47	Kh*PP	0,0000
46	Fvq	0,0000
46	Fv	0,0000
46	Fh_ka	0,0000
46	Fh_k0	0,0000
46	Fh_kd	0,0000
46	Fhq_ka	0,0000
46	Fhq_k0	0,0000
46	Fv*kv	0,0000
46	Esx	0,0000
46	Pvsx*kh*kv	0,0000
46	Kv*PP	0,0000
46	Kh*PP	0,0000
45	Fvq	0,0000
45	Fv	0,0000
45	Fh_ka	0,0000
45	Fh_k0	0,0000
45	Fh_kd	0,0000
45	Fhq_ka	0,0000
45	Fhq_k0	0,0000
45	Fv*kv	0,0000
45	Esx	0,0000
45	Pvsx*kh*kv	0,0000
45	Kv*PP	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
45	Kh*PP	0,0000
44	Fvq	0,0000
44	Fv	0,0000
44	Fh_ka	0,0000
44	Fh_k0	0,0000
44	Fh_kd	0,0000
44	Fhq_ka	0,0000
44	Fhq_k0	0,0000
44	Fv*kv	0,0000
44	Esx	0,0000
44	Pvsx*kh*kv	0,0000
44	Kv*PP	0,0000
44	Kh*PP	0,0000
43	Fvq	0,0000
43	Fv	0,0000
43	Fh_ka	0,0000
43	Fh_k0	0,0000
43	Fh_kd	0,0000
43	Fhq_ka	0,0000
43	Fhq_k0	0,0000
43	Fv*kv	0,0000
43	Esx	0,0000
43	Pvsx*kh*kv	0,0000
43	Kv*PP	0,0000
43	Kh*PP	0,0000
42	Fvq	0,0000
42	Fv	0,0000
42	Fh_ka	0,0000
42	Fh_k0	0,0000
42	Fh_kd	0,0000
42	Fhq_ka	0,0000
42	Fhq_k0	0,0000
42	Fv*kv	0,0000
42	Esx	0,0000
42	Pvsx*kh*kv	0,0000
42	Kv*PP	0,0000
42	Kh*PP	0,0000
41	Fvq	0,0000
41	Fv	0,0000
41	Fh_ka	0,0000
41	Fh_k0	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
41	Fh_kd	0,0000
41	Fhq_ka	0,0000
41	Fhq_k0	0,0000
41	Fv*kv	0,0000
41	Esx	0,0000
41	Pvsx*kh*kv	0,0000
41	Kv*PP	0,0000
41	Kh*PP	0,0000
40	Fvq	0,0000
40	Fv	0,0000
40	Fh_ka	0,0000
40	Fh_k0	0,0000
40	Fh_kd	0,0000
40	Fhq_ka	0,0000
40	Fhq_k0	0,0000
40	Fv*kv	0,0000
40	Esx	0,0000
40	Pvsx*kh*kv	0,0000
40	Kv*PP	0,0000
40	Kh*PP	0,0000
39	Fvq	0,0000
39	Fv	0,0000
39	Fh_ka	0,0000
39	Fh_k0	0,0000
39	Fh_kd	0,0000
39	Fhq_ka	0,0000
39	Fhq_k0	0,0000
39	Fv*kv	0,0000
39	Esx	0,0000
39	Pvsx*kh*kv	0,0000
39	Kv*PP	0,0000
39	Kh*PP	0,0000
38	Fvq	0,0000
38	Fv	0,0000
38	Fh_ka	0,0000
38	Fh_k0	0,0000
38	Fh_kd	0,0000
38	Fhq_ka	0,0000
38	Fhq_k0	0,0000
38	Fv*kv	0,0000
38	Esx	0,0000



<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
38	Pvsx*kh*kv	0,0000
38	Kv*PP	0,0000
38	Kh*PP	0,0000
37	Fvq	0,0000
37	Fv	0,0000
37	Fh_ka	0,0000
37	Fh_k0	0,0000
37	Fh_kd	0,0000
37	Fhq_ka	0,0000
37	Fhq_k0	0,0000
37	Fv*kv	0,0000
37	Esx	0,0000
37	Pvsx*kh*kv	0,0000
37	Kv*PP	0,0000
37	Kh*PP	0,0000
36	Fvq	0,0000
36	Fv	0,0000
36	Fh_ka	0,0000
36	Fh_k0	0,0000
36	Fh_kd	0,0000
36	Fhq_ka	0,0000
36	Fhq_k0	0,0000
36	Fv*kv	0,0000
36	Esx	0,0000
36	Pvsx*kh*kv	0,0000
36	Kv*PP	0,0000
36	Kh*PP	0,0000
35	Fvq	0,0000
35	Fv	0,0000
35	Fh_ka	0,0000
35	Fh_k0	0,0000
35	Fh_kd	0,0000
35	Fhq_ka	0,0000
35	Fhq_k0	0,0000
35	Fv*kv	0,0000
35	Esx	0,0000
35	Pvsx*kh*kv	0,0000
35	Kv*PP	0,0000
35	Kh*PP	0,0000
34	Fvq	0,0000
34	Fv	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
34	Fh_ka	0,0000
34	Fh_k0	0,0000
34	Fh_kd	0,0000
34	Fhq_ka	0,0000
34	Fhq_k0	0,0000
34	Fv*kv	0,0000
34	Esx	0,0000
34	Pvsx*kh*kv	0,0000
34	Kv*PP	0,0000
34	Kh*PP	0,0000
33	Fvq	0,0000
33	Fv	0,0000
33	Fh_ka	0,0000
33	Fh_k0	0,0000
33	Fh_kd	0,0000
33	Fhq_ka	0,0000
33	Fhq_k0	0,0000
33	Fv*kv	0,0000
33	Esx	0,0000
33	Pvsx*kh*kv	0,0000
33	Kv*PP	0,0000
33	Kh*PP	0,0000
60	Kv*PP	0,0000
60	Kh*PP	0,0000
59	Kv*PP	0,0000
59	Kh*PP	0,0000
58	Kv*PP	0,0000
58	Kh*PP	0,0000
57	Kv*PP	0,0000
57	Kh*PP	0,0000
56	Kv*PP	0,0000
56	Kh*PP	0,0000
55	Kv*PP	0,0000
55	Kh*PP	0,0000
54	Kv*PP	0,0000
54	Kh*PP	0,0000
15	Fh_ka	0,0000
15	Fh_k0	0,0000
15	Fh_kd	0,0000
15	Fhq_ka	0,0000
15	Fhq_k0	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
15	Edx	0,0000
15	Pvdx*kh*kv	0,0000
15	Kv*PP	0,0000
15	Kh*PP	0,0000
14	Fh_ka	0,0000
14	Fh_k0	0,0000
14	Fh_kd	0,0000
14	Fhq_ka	0,0000
14	Fhq_k0	0,0000
14	Edx	0,0000
14	Pvdx*kh*kv	0,0000
14	Kv*PP	0,0000
14	Kh*PP	0,0000
13	Fh_ka	0,0000
13	Fh_k0	0,0000
13	Fh_kd	0,0000
13	Fhq_ka	0,0000
13	Fhq_k0	0,0000
13	Edx	0,0000
13	Pvdx*kh*kv	0,0000
13	Kv*PP	0,0000
13	Kh*PP	0,0000
50	Fh_ka	0,0000
50	Fh_k0	0,0000
50	Fh_kd	0,0000
50	Fhq_ka	0,0000
50	Fhq_k0	0,0000
50	Esx	0,0000
50	Pvsx*kh*kv	0,0000
50	Kv*PP	0,0000
50	Kh*PP	0,0000
51	Fh_ka	0,0000
51	Fh_k0	0,0000
51	Fh_kd	0,0000
51	Fhq_ka	0,0000
51	Fhq_k0	0,0000
51	Esx	0,0000
51	Pvsx*kh*kv	0,0000
51	Kv*PP	0,0000
51	Kh*PP	0,0000
49	Fh_ka	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
49	Fh_k0	0,0000
49	Fh_kd	0,0000
49	Fhq_ka	0,0000
49	Fhq_k0	0,0000
49	Esx	0,0000
49	Pvsx*kh*kv	0,0000
49	Kv*PP	0,0000
49	Kh*PP	0,0000
1002	Fh_ka	0,0000
1002	Fh_k0	0,0000
1002	Fh_kd	0,0000
1002	Fhq_ka	0,0000
1002	Fhq_k0	0,0000
1002	Edx	0,0000
1002	Pvdx*kh*kv	0,0000
1002	Kv*PP	0,0000
1002	Kh*PP	0,0000

**Table: Joint Spring Assignments 1 - Uncoupled**

Joint	CoordSys	U1	U2	U3	R1	R2	R3
Text	Text	KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
11	Local	0,00	0,00	37118,12	0,0000	0,0000	0,0000
12	Local	92363,80	0,00	0,00	0,0000	0,0000	0,0000
16	Local	3368,70	0,00	0,00	0,0000	0,0000	0,0000
17	Local	3315,50	0,00	0,00	0,0000	0,0000	0,0000
18	Local	3235,50	0,00	0,00	0,0000	0,0000	0,0000
19	Local	3125,60	0,00	0,00	0,0000	0,0000	0,0000
20	Local	2986,70	0,00	0,00	0,0000	0,0000	0,0000
21	Local	2820,10	0,00	0,00	0,0000	0,0000	0,0000
22	Local	2627,30	0,00	0,00	0,0000	0,0000	0,0000
23	Local	2410,10	0,00	0,00	0,0000	0,0000	0,0000
24	Local	2170,60	0,00	0,00	0,0000	0,0000	0,0000
25	Local	1910,90	0,00	0,00	0,0000	0,0000	0,0000
26	Local	1687,20	0,00	0,00	0,0000	0,0000	0,0000
27	Local	1485,60	0,00	0,00	0,0000	0,0000	0,0000

Joint	CoordSys	U1	U2	U3	R1	R2	R3
Text	Text	KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
28	Local	1226,80	0,00	0,00	0,0000	0,0000	0,0000
29	Local	929,40	0,00	0,00	0,0000	0,0000	0,0000
30	Local	624,10	0,00	0,00	0,0000	0,0000	0,0000
31	Local	313,40	0,00	0,00	0,0000	0,0000	0,0000
32	Local	157,00	0,00	0,00	0,0000	0,0000	0,0000
1	Local	0,00	0,00	3394,99	0,0000	0,0000	0,0000
2	Local	0,00	0,00	3815,43	0,0000	0,0000	0,0000
3	Local	0,00	0,00	4225,64	0,0000	0,0000	0,0000
4	Local	0,00	0,00	4199,56	0,0000	0,0000	0,0000
5	Local	0,00	0,00	4162,23	0,0000	0,0000	0,0000
6	Local	0,00	0,00	4113,73	0,0000	0,0000	0,0000
7	Local	0,00	0,00	4054,26	0,0000	0,0000	0,0000
8	Local	0,00	0,00	3983,93	0,0000	0,0000	0,0000
9	Local	0,00	0,00	3902,89	0,0000	0,0000	0,0000
10	Local	0,00	0,00	3811,42	0,0000	0,0000	0,0000
62	Local	0,00	0,00	3815,43	0,0000	0,0000	0,0000
61	Local	0,00	0,00	4225,64	0,0000	0,0000	0,0000
1001	Local	58577,90	0,00	26702,37	0,0000	0,0000	0,0000
53	Local	0,00	0,00	37118,12	0,0000	0,0000	0,0000
52	Local	92363,80	0,00	0,00	0,0000	0,0000	0,0000
48	Local	3368,70	0,00	0,00	0,0000	0,0000	0,0000
47	Local	3315,50	0,00	0,00	0,0000	0,0000	0,0000
46	Local	3235,50	0,00	0,00	0,0000	0,0000	0,0000
45	Local	3125,60	0,00	0,00	0,0000	0,0000	0,0000
44	Local	2986,70	0,00	0,00	0,0000	0,0000	0,0000
43	Local	2820,10	0,00	0,00	0,0000	0,0000	0,0000
42	Local	2627,30	0,00	0,00	0,0000	0,0000	0,0000
41	Local	2410,10	0,00	0,00	0,0000	0,0000	0,0000
40	Local	2170,60	0,00	0,00	0,0000	0,0000	0,0000
39	Local	1910,90	0,00	0,00	0,0000	0,0000	0,0000
38	Local	1687,20	0,00	0,00	0,0000	0,0000	0,0000
37	Local	1485,60	0,00	0,00	0,0000	0,0000	0,0000
36	Local	1226,80	0,00	0,00	0,0000	0,0000	0,0000
35	Local	929,40	0,00	0,00	0,0000	0,0000	0,0000
34	Local	624,10	0,00	0,00	0,0000	0,0000	0,0000
33	Local	313,40	0,00	0,00	0,0000	0,0000	0,0000
60	Local	0,00	0,00	4199,56	0,0000	0,0000	0,0000
59	Local	0,00	0,00	4162,23	0,0000	0,0000	0,0000
58	Local	0,00	0,00	4113,73	0,0000	0,0000	0,0000
57	Local	0,00	0,00	4054,26	0,0000	0,0000	0,0000
56	Local	0,00	0,00	3983,93	0,0000	0,0000	0,0000

Joint	CoordSys	U1	U2	U3	R1	R2	R3
Text	Text	KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
55	Local	0,00	0,00	3902,89	0,0000	0,0000	0,0000
54	Local	0,00	0,00	3811,42	0,0000	0,0000	0,0000
15	Local	67653,60	0,00	0,00	0,0000	0,0000	0,0000
14	Local	67839,20	0,00	0,00	0,0000	0,0000	0,0000
13	Local	68015,50	0,00	0,00	0,0000	0,0000	0,0000
50	Local	67839,20	0,00	0,00	0,0000	0,0000	0,0000
51	Local	68015,50	0,00	0,00	0,0000	0,0000	0,0000
49	Local	67653,60	0,00	0,00	0,0000	0,0000	0,0000
1002	Local	58577,90	0,00	26702,37	0,0000	0,0000	0,0000

**Table: Load Case Definitions**

LoadCase	DesignType	SelfWtMult	AutoLoad
Text	Text	Unitless	Text
DEAD	DEAD	1,000000	
Fv	DEAD	0,000000	
Fvq	DEAD	0,000000	
Fh_ka	DEAD	0,000000	
Fh_k0	DEAD	0,000000	
Fh_kd	DEAD	0,000000	
Fv*kv	DEAD	0,000000	
Esx	DEAD	0,000000	
Edx	DEAD	0,000000	
Pvsx*kh*kv	DEAD	0,000000	
Pvdx*kh*kv	DEAD	0,000000	
Kv*PP	DEAD	0,000000	
Kh*PP	DEAD	0,000000	
Fhq_ka	DEAD	0,000000	
Fhq_k0	DEAD	0,000000	

**Table: Program Control, Part 1 of 3**

ProgramName	Version	ProgLevel	LicenseOS	LicenseSC	LicenseBR	LicenseHT
Text	Text	Text	Yes/No	Yes/No	Yes/No	Yes/No
SAP2000	9.1.9	Basic	No	No	No	No

**Table: Program Control, Part 2 of 3**

CurrUnits	SteelCode	ConcCode	AlumCode
Text	Text	Text	Text
KN, m, C	AISC-LRFD93	ACI 318-02	AA-ASD 2000

**Table: Program Control, Part 3 of 3**

ColdCode
Text
AISI-ASD96

## **Allegato 2**

### **Galleria artificiale – CALCOLO II**

#### **Dati di input SAP**



**Table: Combination Definitions, Part 1 of 2**

ComboName	ComboType	CaseType	CaseName	ScaleFactor	SteelDesign	ConcDesign
Text	Text	Text	Text	Unitless	Yes/No	Yes/No
COMB1	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB2	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB2		Linear Static	Fv	1,000000		
COMB2		Linear Static	Fh_ka	1,000000		
COMB2		Linear Static	Fvq	1,000000		
COMB2		Linear Static	Fhq_ka	1,000000		
COMB3	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB3		Linear Static	Fv	1,000000		
COMB3		Linear Static	Fh_k0	1,000000		
COMB3		Linear Static	Fvq	1,000000		
COMB3		Linear Static	Fhq_k0	1,000000		
COMB4	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB4		Linear Static	Fv	1,000000		
COMB4		Linear Static	Fh_k0	1,000000		
COMB4		Linear Static	Esx	1,300000		
COMB4		Linear Static	Fv*kv	1,300000		
COMB4		Linear Static	Pvsx*kh*kv	1,300000		
COMB4		Linear Static	Pvdx*kh*kv	1,300000		
COMB4		Linear Static	Kv*PP	1,300000		
COMB4		Linear Static	Kh*PP	1,300000		
COMB5	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB5		Linear Static	Fv	1,000000		
COMB5		Linear Static	Fh_k0	1,000000		
COMB5		Linear Static	Edx	1,300000		
COMB5		Linear Static	Fv*kv	1,300000		
COMB5		Linear Static	Pvsx*kh*kv	1,300000		
COMB5		Linear Static	Pvdx*kh*kv	1,300000		
COMB5		Linear Static	Kh*PP	-1,300000		
COMB5		Linear Static	Kv*PP	1,300000		
COMB6	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB6		Linear Static	Fv	1,000000		
COMB6		Linear Static	Fh_k0	1,000000		
COMB6		Linear Static	Esx	1,300000		
COMB6		Linear Static	Fv*kv	-1,300000		
COMB6		Linear Static	Pvsx*kh*kv	-1,300000		
COMB6		Linear Static	Pvdx*kh*kv	-1,300000		
COMB6		Linear Static	Kv*PP	-1,300000		
COMB6		Linear Static	Kh*PP	1,300000		

ComboName	ComboType	CaseType	CaseName	ScaleFactor	SteelDesign	ConcDesign
Text	Text	Text	Text	Unitless	Yes/No	Yes/No
COMB7	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB7		Linear Static	Fv	1,000000		
COMB7		Linear Static	Fh_k0	1,000000		
COMB7		Linear Static	Edx	1,300000		
COMB7		Linear Static	Fv*kv	-1,300000		
COMB7		Linear Static	Pvsx*kh*kv	-1,300000		
COMB7		Linear Static	Pvdx*kh*kv	-1,300000		
COMB7		Linear Static	Kv*PP	-1,300000		
COMB7		Linear Static	Kh*PP	-1,300000		

**Table: Combination Definitions, Part 2 of 2**

ComboName	CaseName	AlumDesign	ColdDesign
Text	Text	Yes/No	Yes/No
COMB1	DEAD	No	No
COMB2	DEAD	No	No
COMB2	Fv		
COMB2	Fh_ka		
COMB2	Fvq		
COMB2	Fhq_ka		
COMB3	DEAD	No	No
COMB3	Fv		
COMB3	Fh_k0		
COMB3	Fvq		
COMB3	Fhq_k0		
COMB4	DEAD	No	No
COMB4	Fv		
COMB4	Fh_k0		
COMB4	Esx		
COMB4	Fv*kv		
COMB4	Pvsx*kh*kv		
COMB4	Pvdx*kh*kv		
COMB4	Kv*PP		
COMB4	Kh*PP		
COMB5	DEAD	No	No
COMB5	Fv		

ComboName	CaseName	AlumDesign	ColdDesign
Text	Text	Yes/No	Yes/No
COMB5	Fh_k0		
COMB5	Edx		
COMB5	Fv*kv		
COMB5	Pvsx*kh*kv		
COMB5	Pvdx*kh*kv		
COMB5	Kh*PP		
COMB5	Kv*PP		
COMB6	DEAD	No	No
COMB6	Fv		
COMB6	Fh_k0		
COMB6	Esx		
COMB6	Fv*kv		
COMB6	Pvsx*kh*kv		
COMB6	Pvdx*kh*kv		
COMB6	Kv*PP		
COMB6	Kh*PP		
COMB7	DEAD	No	No
COMB7	Fv		
COMB7	Fh_k0		
COMB7	Edx		
COMB7	Fv*kv		
COMB7	Pvsx*kh*kv		
COMB7	Pvdx*kh*kv		
COMB7	Kv*PP		
COMB7	Kh*PP		

**Table: Connectivity - Frame**

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
1	1	2	No	0,55983	0,27985	-5,300E-15	-5,07760
2	2	3	No	0,69992	0,90888	-5,300E-15	-5,04828
3	3	4	No	0,69992	1,60553	-5,300E-15	-4,98320
4	4	5	No	0,69992	2,29789	-5,300E-15	-4,88216
5	5	6	No	0,69992	2,98409	-5,350E-15	-4,74545
6	6	7	No	0,69992	3,66230	-5,400E-15	-4,57341

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
7	7	8	No	0,69992	4,33070	-5,400E-15	-4,36652
8	8	9	No	0,69992	4,98750	-5,450E-15	-4,12533
9	9	10	No	0,69992	5,63095	-5,500E-15	-3,85049
10	10	11	No	0,69992	6,25931	-5,550E-15	-3,54272
11	11	12	No	2,03411	7,36476	-5,700E-15	-2,74668
12	12	13	No	0,74117	8,16000	-2,750E-15	-1,74207
13	13	14	No	0,74117	8,16000	2,000E-16	-1,00090
14	14	15	No	0,74117	8,16000	5,000E-17	-0,25974
15	15	16	No	0,74117	8,16000	-3,200E-15	0,48143
16	16	17	No	0,74050	8,10415	-6,450E-15	1,21803
17	17	18	No	0,74050	7,95750	-6,550E-15	1,94299
18	18	19	No	0,74050	7,74178	-6,700E-15	2,65048
19	19	20	No	0,74050	7,45900	-6,850E-15	3,33393
20	20	21	No	0,74050	7,11177	-6,950E-15	3,98701
21	21	22	No	0,74050	6,70333	-7,050E-15	4,60365
22	22	23	No	0,74050	6,23745	-7,150E-15	5,17813
23	23	24	No	0,74050	5,71847	-7,250E-15	5,70513
24	24	25	No	0,74050	5,15118	-7,350E-15	6,17975
25	25	26	No	0,74050	4,54087	-7,450E-15	6,59760
26	26	27	No	0,74070	3,89909	-7,500E-15	6,96652
27	27	28	No	0,74052	3,23408	-7,550E-15	7,29135
28	28	29	No	0,74052	2,54470	-7,600E-15	7,55960
29	29	30	No	0,74052	1,83344	-7,650E-15	7,76284
30	30	31	No	0,74052	1,10641	-7,700E-15	7,89930
31	31	32	No	0,74052	0,36986	-7,700E-15	7,96783
32	32	33	No	0,74052	-0,36986	-7,700E-15	7,96783
33	33	34	No	0,74052	-1,10641	-7,700E-15	7,89930
34	34	35	No	0,74052	-1,83344	-7,650E-15	7,76284
35	35	36	No	0,74052	-2,54470	-7,600E-15	7,55960
36	36	37	No	0,74052	-3,23408	-7,550E-15	7,29135
37	37	38	No	0,74070	-3,89909	-7,500E-15	6,96652
38	38	39	No	0,74050	-4,54087	-7,450E-15	6,59760
39	39	40	No	0,74050	-5,15118	-7,350E-15	6,17975
40	40	41	No	0,74050	-5,71847	-7,250E-15	5,70513
41	41	42	No	0,74050	-6,23745	-7,150E-15	5,17813
42	42	43	No	0,74050	-6,70333	-7,050E-15	4,60365
43	43	44	No	0,74050	-7,11177	-6,950E-15	3,98701
44	44	45	No	0,74050	-7,45900	-6,850E-15	3,33393
45	45	46	No	0,74050	-7,74178	-6,700E-15	2,65048
46	46	47	No	0,74050	-7,95750	-6,550E-15	1,94299
47	47	48	No	0,74050	-8,10415	-6,450E-15	1,21803

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
48	48	49	No	0,74117	-8,16000	-6,300E-15	0,48143
49	49	50	No	0,74117	-8,16000	-6,150E-15	-0,25974
50	50	51	No	0,74117	-8,16000	-6,000E-15	-1,00090
51	51	52	No	0,74117	-8,16000	-5,850E-15	-1,74207
52	52	53	No	2,03411	-7,36476	-5,700E-15	-2,74668
53	53	54	No	0,69992	-6,25931	-5,550E-15	-3,54272
54	54	55	No	0,69992	-5,63095	-5,500E-15	-3,85049
55	55	56	No	0,69992	-4,98750	-5,450E-15	-4,12533
56	56	57	No	0,69992	-4,33070	-5,400E-15	-4,36652
57	57	58	No	0,69992	-3,66230	-5,400E-15	-4,57341
58	58	59	No	0,69992	-2,98409	-5,350E-15	-4,74545
59	59	60	No	0,69992	-2,29789	-5,300E-15	-4,88216
60	60	61	No	0,69992	-1,60553	-5,300E-15	-4,98320
61	61	62	No	0,69992	-0,90888	-5,300E-15	-5,04828
62	62	1	No	0,55983	-0,27985	-5,300E-15	-5,07760
1001	1001	52	No	1,26805	-8,16000	-5,700E-15	-2,74668
1002	1002	11	No	1,59049	7,36476	-2,650E-15	-3,38012
1011	1001	53	No	1,59049	-7,36476	-5,600E-15	-3,38071
1022	12	1002	No	1,26687	8,16000	-2,750E-15	-2,74609

**Table: Frame Section Assignments**

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
Text	Text	Text	Text	Text	Text
1	Rectangular	N.A.	100	N.A.	Default
2	Rectangular	N.A.	100	N.A.	Default
3	Rectangular	N.A.	100	N.A.	Default
4	Rectangular	N.A.	100	N.A.	Default
5	Rectangular	N.A.	100	N.A.	Default
6	Rectangular	N.A.	100	N.A.	Default
7	Rectangular	N.A.	100	N.A.	Default
8	Rectangular	N.A.	100	N.A.	Default
9	Rectangular	N.A.	100	N.A.	Default
10	Rectangular	N.A.	100	N.A.	Default
11	Rectangular	N.A.	100	N.A.	Default
12	Rectangular	N.A.	100T	N.A.	Default

<b>Frame</b>	<b>SectionType</b>	<b>AutoSelect</b>	<b>AnalSect</b>	<b>DesignSect</b>	<b>MatProp</b>
Text	Text	Text	Text	Text	Text
13	Rectangular	N.A.	100B	N.A.	Default
14	Rectangular	N.A.	100	N.A.	Default
15	Rectangular	N.A.	100	N.A.	Default
16	Rectangular	N.A.	100	N.A.	Default
17	Rectangular	N.A.	100B	N.A.	Default
18	Rectangular	N.A.	100B	N.A.	Default
19	Rectangular	N.A.	100T	N.A.	Default
20	Rectangular	N.A.	100T	N.A.	Default
21	Rectangular	N.A.	100T	N.A.	Default
22	Rectangular	N.A.	100B	N.A.	Default
23	Rectangular	N.A.	100	N.A.	Default
24	Rectangular	N.A.	100	N.A.	Default
25	Rectangular	N.A.	100	N.A.	Default
26	Rectangular	N.A.	100	N.A.	Default
27	Rectangular	N.A.	100	N.A.	Default
28	Rectangular	N.A.	100	N.A.	Default
29	Rectangular	N.A.	100	N.A.	Default
30	Rectangular	N.A.	100	N.A.	Default
31	Rectangular	N.A.	100	N.A.	Default
32	Rectangular	N.A.	100	N.A.	Default
33	Rectangular	N.A.	100	N.A.	Default
34	Rectangular	N.A.	100	N.A.	Default
35	Rectangular	N.A.	100	N.A.	Default
36	Rectangular	N.A.	100	N.A.	Default
37	Rectangular	N.A.	100	N.A.	Default
38	Rectangular	N.A.	100	N.A.	Default
39	Rectangular	N.A.	100	N.A.	Default
40	Rectangular	N.A.	100	N.A.	Default
41	Rectangular	N.A.	100B	N.A.	Default
42	Rectangular	N.A.	100T	N.A.	Default
43	Rectangular	N.A.	100T	N.A.	Default
44	Rectangular	N.A.	100T	N.A.	Default
45	Rectangular	N.A.	100B	N.A.	Default
46	Rectangular	N.A.	100B	N.A.	Default
47	Rectangular	N.A.	100	N.A.	Default
48	Rectangular	N.A.	100	N.A.	Default
49	Rectangular	N.A.	100	N.A.	Default
50	Rectangular	N.A.	100B	N.A.	Default
51	Rectangular	N.A.	100T	N.A.	Default
52	Rectangular	N.A.	100	N.A.	Default
53	Rectangular	N.A.	100	N.A.	Default

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
Text	Text	Text	Text	Text	Text
54	Rectangular	N.A.	100	N.A.	Default
55	Rectangular	N.A.	100	N.A.	Default
56	Rectangular	N.A.	100	N.A.	Default
57	Rectangular	N.A.	100	N.A.	Default
58	Rectangular	N.A.	100	N.A.	Default
59	Rectangular	N.A.	100	N.A.	Default
60	Rectangular	N.A.	100	N.A.	Default
61	Rectangular	N.A.	100	N.A.	Default
62	Rectangular	N.A.	100	N.A.	Default
1001	Rectangular	N.A.	100T	N.A.	Default
1002	Rectangular	N.A.	100	N.A.	Default
1011	Rectangular	N.A.	100	N.A.	Default
1022	Rectangular	N.A.	100T	N.A.	Default

**Table: Frame Section Properties 01 - General, Part 1 of 5**

SectionName	Material	Shape	t3	t2	Area	TorsConst
Text	Text	Text	m	m	m2	m4
100	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833
100B	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833
100T	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833

**Table: Frame Section Properties 01 - General, Part 2 of 5**

SectionName	I33	I22	AS2	AS3	S33	S22	Z33
Text	m4	m4	m2	m2	m3	m3	m3
100	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000
100B	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000
100T	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000

**Table: Frame Section Properties 01 - General, Part 3 of 5**

SectionName	Z22	R33	R22	ConcCol	ConcBeam	Color	TotalWt
Text	m3	m	m	Yes/No	Yes/No	Text	KN
100	0,250000	0,288675	0,288675	Yes	No	White	968,570
100B	0,250000	0,288675	0,288675	Yes	No	White	148,134
100T	0,250000	0,288675	0,288675	Yes	No	White	211,507

**Table: Frame Section Properties 01 - General, Part 4 of 5**

SectionName	TotalMass	FromFile	AMod	A2Mod	A3Mod	JMod	I2Mod
Text	KN-s2/m	Yes/No	Unitless	Unitless	Unitless	Unitless	Unitless
100	98,79	No	1,000000	1,000000	1,000000	1,000000	1,000000
100B	15,11	No	1,000000	1,000000	1,000000	1,000000	1,000000
100T	21,57	No	1,000000	1,000000	1,000000	1,000000	1,000000

**Table: Frame Section Properties 01 - General, Part 5 of 5**

SectionName	I3Mod	MMod	WMod
Text	Unitless	Unitless	Unitless
100	1,000000	1,000000	1,000000
100B	1,000000	1,000000	1,000000
100T	1,000000	1,000000	1,000000



**Table: Joint Coordinates, Part 1 of 2**

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
Text	Text	Text	m	m	m	Yes/No	m
1	GLOBAL	Cartesian	2,700E-15	-5,300E-15	-5,08339	No	2,700E-15
2	GLOBAL	Cartesian	0,55971	-5,300E-15	-5,07181	No	0,55971
3	GLOBAL	Cartesian	1,25805	-5,300E-15	-5,02476	No	1,25805
4	GLOBAL	Cartesian	1,95302	-5,300E-15	-4,94164	No	1,95302
5	GLOBAL	Cartesian	2,64276	-5,300E-15	-4,82269	No	2,64276
6	GLOBAL	Cartesian	3,32542	-5,400E-15	-4,66821	No	3,32542
7	GLOBAL	Cartesian	3,99917	-5,400E-15	-4,47862	No	3,99917
8	GLOBAL	Cartesian	4,66222	-5,400E-15	-4,25443	No	4,66222
9	GLOBAL	Cartesian	5,31278	-5,500E-15	-3,99624	No	5,31278
10	GLOBAL	Cartesian	5,94911	-5,500E-15	-3,70474	No	5,94911
11	GLOBAL	Cartesian	6,56951	-5,600E-15	-3,38071	No	6,56951
12	GLOBAL	Cartesian	8,16000	-5,800E-15	-2,11266	No	8,16000
13	GLOBAL	Cartesian	8,16000	3,000E-16	-1,37149	No	8,16000
14	GLOBAL	Cartesian	8,16000	1,000E-16	-0,63032	No	8,16000
15	GLOBAL	Cartesian	8,16000	0,00000	0,11085	No	8,16000
16	GLOBAL	Cartesian	8,16000	-6,400E-15	0,85202	No	8,16000
17	GLOBAL	Cartesian	8,04830	-6,500E-15	1,58405	No	8,04830
18	GLOBAL	Cartesian	7,86670	-6,600E-15	2,30194	No	7,86670
19	GLOBAL	Cartesian	7,61687	-6,800E-15	2,99902	No	7,61687
20	GLOBAL	Cartesian	7,30113	-6,900E-15	3,66884	No	7,30113
21	GLOBAL	Cartesian	6,92242	-7,000E-15	4,30518	No	6,92242
22	GLOBAL	Cartesian	6,48424	-7,100E-15	4,90212	No	6,48424
23	GLOBAL	Cartesian	5,99066	-7,200E-15	5,45414	No	5,99066
24	GLOBAL	Cartesian	5,44627	-7,300E-15	5,95612	No	5,44627
25	GLOBAL	Cartesian	4,85610	-7,400E-15	6,40339	No	4,85610
26	GLOBAL	Cartesian	4,22564	-7,500E-15	6,79180	No	4,22564
27	GLOBAL	Cartesian	3,57254	-7,500E-15	7,14123	No	3,57254
28	GLOBAL	Cartesian	2,89562	-7,600E-15	7,44148	No	2,89562
29	GLOBAL	Cartesian	2,19379	-7,600E-15	7,67773	No	2,19379
30	GLOBAL	Cartesian	1,47309	-7,700E-15	7,84794	No	1,47309
31	GLOBAL	Cartesian	0,73973	-7,700E-15	7,95066	No	0,73973
32	GLOBAL	Cartesian	2,700E-15	-7,700E-15	7,98500	No	2,700E-15
33	GLOBAL	Cartesian	-0,73973	-7,700E-15	7,95066	No	-0,73973
34	GLOBAL	Cartesian	-1,47309	-7,700E-15	7,84794	No	-1,47309
35	GLOBAL	Cartesian	-2,19379	-7,600E-15	7,67773	No	-2,19379
36	GLOBAL	Cartesian	-2,89562	-7,600E-15	7,44148	No	-2,89562
37	GLOBAL	Cartesian	-3,57254	-7,500E-15	7,14123	No	-3,57254
38	GLOBAL	Cartesian	-4,22564	-7,500E-15	6,79180	No	-4,22564

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
Text	Text	Text	m	m	m	Yes/No	m
39	GLOBAL	Cartesian	-4,85610	-7,400E-15	6,40339	No	-4,85610
40	GLOBAL	Cartesian	-5,44627	-7,300E-15	5,95612	No	-5,44627
41	GLOBAL	Cartesian	-5,99066	-7,200E-15	5,45414	No	-5,99066
42	GLOBAL	Cartesian	-6,48424	-7,100E-15	4,90212	No	-6,48424
43	GLOBAL	Cartesian	-6,92242	-7,000E-15	4,30518	No	-6,92242
44	GLOBAL	Cartesian	-7,30113	-6,900E-15	3,66884	No	-7,30113
45	GLOBAL	Cartesian	-7,61687	-6,800E-15	2,99902	No	-7,61687
46	GLOBAL	Cartesian	-7,86670	-6,600E-15	2,30194	No	-7,86670
47	GLOBAL	Cartesian	-8,04830	-6,500E-15	1,58405	No	-8,04830
48	GLOBAL	Cartesian	-8,16000	-6,400E-15	0,85202	No	-8,16000
49	GLOBAL	Cartesian	-8,16000	-6,200E-15	0,11085	No	-8,16000
50	GLOBAL	Cartesian	-8,16000	-6,100E-15	-0,63032	No	-8,16000
51	GLOBAL	Cartesian	-8,16000	-5,900E-15	-1,37149	No	-8,16000
52	GLOBAL	Cartesian	-8,16000	-5,800E-15	-2,11266	No	-8,16000
53	GLOBAL	Cartesian	-6,56951	-5,600E-15	-3,38071	No	-6,56951
54	GLOBAL	Cartesian	-5,94911	-5,500E-15	-3,70474	No	-5,94911
55	GLOBAL	Cartesian	-5,31278	-5,500E-15	-3,99624	No	-5,31278
56	GLOBAL	Cartesian	-4,66222	-5,400E-15	-4,25443	No	-4,66222
57	GLOBAL	Cartesian	-3,99917	-5,400E-15	-4,47862	No	-3,99917
58	GLOBAL	Cartesian	-3,32542	-5,400E-15	-4,66821	No	-3,32542
59	GLOBAL	Cartesian	-2,64276	-5,300E-15	-4,82269	No	-2,64276
60	GLOBAL	Cartesian	-1,95302	-5,300E-15	-4,94164	No	-1,95302
61	GLOBAL	Cartesian	-1,25805	-5,300E-15	-5,02476	No	-1,25805
62	GLOBAL	Cartesian	-0,55971	-5,300E-15	-5,07181	No	-0,55971
1001	GLOBAL	Cartesian	-8,16000	-5,600E-15	-3,38071	No	-8,16000
1002	GLOBAL	Cartesian	8,16000	3,000E-16	-3,37952	No	8,16000

**Table: Joint Coordinates, Part 2 of 2**

Joint	GlobalY	GlobalZ
Text	m	m
1	-5,300E-15	-5,08339
2	-5,300E-15	-5,07181
3	-5,300E-15	-5,02476
4	-5,300E-15	-4,94164
5	-5,300E-15	-4,82269

Joint	GlobalY	GlobalZ
Text	m	m
6	-5,400E-15	-4,66821
7	-5,400E-15	-4,47862
8	-5,400E-15	-4,25443
9	-5,500E-15	-3,99624
10	-5,500E-15	-3,70474
11	-5,600E-15	-3,38071
12	-5,800E-15	-2,11266
13	3,000E-16	-1,37149
14	1,000E-16	-0,63032
15	0,00000	0,11085
16	-6,400E-15	0,85202
17	-6,500E-15	1,58405
18	-6,600E-15	2,30194
19	-6,800E-15	2,99902
20	-6,900E-15	3,66884
21	-7,000E-15	4,30518
22	-7,100E-15	4,90212
23	-7,200E-15	5,45414
24	-7,300E-15	5,95612
25	-7,400E-15	6,40339
26	-7,500E-15	6,79180
27	-7,500E-15	7,14123
28	-7,600E-15	7,44148
29	-7,600E-15	7,67773
30	-7,700E-15	7,84794
31	-7,700E-15	7,95066
32	-7,700E-15	7,98500
33	-7,700E-15	7,95066
34	-7,700E-15	7,84794
35	-7,600E-15	7,67773
36	-7,600E-15	7,44148
37	-7,500E-15	7,14123
38	-7,500E-15	6,79180
39	-7,400E-15	6,40339
40	-7,300E-15	5,95612
41	-7,200E-15	5,45414
42	-7,100E-15	4,90212
43	-7,000E-15	4,30518
44	-6,900E-15	3,66884
45	-6,800E-15	2,99902
46	-6,600E-15	2,30194

Joint	GlobalY	GlobalZ
Text	m	m
47	-6,500E-15	1,58405
48	-6,400E-15	0,85202
49	-6,200E-15	0,11085
50	-6,100E-15	-0,63032
51	-5,900E-15	-1,37149
52	-5,800E-15	-2,11266
53	-5,600E-15	-3,38071
54	-5,500E-15	-3,70474
55	-5,500E-15	-3,99624
56	-5,400E-15	-4,25443
57	-5,400E-15	-4,47862
58	-5,400E-15	-4,66821
59	-5,300E-15	-4,82269
60	-5,300E-15	-4,94164
61	-5,300E-15	-5,02476
62	-5,300E-15	-5,07181
1001	-5,600E-15	-3,38071
1002	3,000E-16	-3,37952

**Table: Joint Loads - Force, Part 1 of 2**

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
11	Kv*PP	GLOBAL	0,000	0,000	-3,380	0,0000	0,0000
11	Kh*PP	GLOBAL	6,750	0,000	0,000	0,0000	0,0000
12	Fh_ka	GLOBAL	-71,270	0,000	0,000	0,0000	0,0000
12	Fh_k0	GLOBAL	-112,150	0,000	0,000	0,0000	0,0000
12	Fh_kd	GLOBAL	-134,470	0,000	0,000	0,0000	0,0000
12	Edx	GLOBAL	-53,820	0,000	0,000	0,0000	0,0000
12	Pvdx*kh*kv	GLOBAL	-1,670	0,000	0,000	0,0000	0,0000
12	Kv*PP	GLOBAL	0,000	0,000	-2,960	0,0000	0,0000
12	Kh*PP	GLOBAL	5,920	0,000	0,000	0,0000	0,0000
12	Fhq_ka	GLOBAL	-5,440	0,000	0,000	0,0000	0,0000
12	Fhq_k0	GLOBAL	-8,560	0,000	0,000	0,0000	0,0000
16	Fvq	GLOBAL	0,000	0,000	-1,117	0,0000	0,0000
16	Fv	GLOBAL	0,000	0,000	-11,318	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
16	Fh_ka	GLOBAL	-40,450	0,000	0,000	0,0000	0,0000
16	Fh_k0	GLOBAL	-63,660	0,000	0,000	0,0000	0,0000
16	Fh_kd	GLOBAL	-76,320	0,000	0,000	0,0000	0,0000
16	Fv*kv	GLOBAL	0,000	0,000	-1,335	0,0000	0,0000
16	Edx	GLOBAL	-39,480	0,000	0,000	0,0000	0,0000
16	Pvdx*kh*kv	GLOBAL	-1,230	0,000	0,000	0,0000	0,0000
16	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
16	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
16	Fhq_ka	GLOBAL	-3,990	0,000	0,000	0,0000	0,0000
16	Fhq_k0	GLOBAL	-6,280	0,000	0,000	0,0000	0,0000
17	Fvq	GLOBAL	0,000	0,000	-2,933	0,0000	0,0000
17	Fv	GLOBAL	0,000	0,000	-27,603	0,0000	0,0000
17	Fh_ka	GLOBAL	-36,940	0,000	0,000	0,0000	0,0000
17	Fh_k0	GLOBAL	-58,120	0,000	0,000	0,0000	0,0000
17	Fh_kd	GLOBAL	-69,690	0,000	0,000	0,0000	0,0000
17	Fv*kv	GLOBAL	0,000	0,000	-3,255	0,0000	0,0000
17	Edx	GLOBAL	-38,860	0,000	0,000	0,0000	0,0000
17	Pvdx*kh*kv	GLOBAL	-1,210	0,000	0,000	0,0000	0,0000
17	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
17	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
17	Fhq_ka	GLOBAL	-3,930	0,000	0,000	0,0000	0,0000
17	Fhq_k0	GLOBAL	-6,180	0,000	0,000	0,0000	0,0000
18	Fvq	GLOBAL	0,000	0,000	-4,314	0,0000	0,0000
18	Fv	GLOBAL	0,000	0,000	-37,578	0,0000	0,0000
18	Fh_ka	GLOBAL	-33,290	0,000	0,000	0,0000	0,0000
18	Fh_k0	GLOBAL	-52,390	0,000	0,000	0,0000	0,0000
18	Fh_kd	GLOBAL	-62,820	0,000	0,000	0,0000	0,0000
18	Fv*kv	GLOBAL	0,000	0,000	-4,431	0,0000	0,0000
18	Edx	GLOBAL	-37,920	0,000	0,000	0,0000	0,0000
18	Pvdx*kh*kv	GLOBAL	-1,180	0,000	0,000	0,0000	0,0000
18	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
18	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
18	Fhq_ka	GLOBAL	-3,830	0,000	0,000	0,0000	0,0000
18	Fhq_k0	GLOBAL	-6,030	0,000	0,000	0,0000	0,0000
19	Fvq	GLOBAL	0,000	0,000	-5,656	0,0000	0,0000
19	Fv	GLOBAL	0,000	0,000	-45,449	0,0000	0,0000
19	Fh_ka	GLOBAL	-29,580	0,000	0,000	0,0000	0,0000
19	Fh_k0	GLOBAL	-46,550	0,000	0,000	0,0000	0,0000
19	Fh_kd	GLOBAL	-55,810	0,000	0,000	0,0000	0,0000
19	Fv*kv	GLOBAL	0,000	0,000	-5,359	0,0000	0,0000
19	Edx	GLOBAL	-36,640	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
19	Pvdx*kh*kv	GLOBAL	-1,140	0,000	0,000	0,0000	0,0000
19	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
19	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
19	Fhq_ka	GLOBAL	-3,700	0,000	0,000	0,0000	0,0000
19	Fhq_k0	GLOBAL	-5,830	0,000	0,000	0,0000	0,0000
20	Fvq	GLOBAL	0,000	0,000	-6,945	0,0000	0,0000
20	Fv	GLOBAL	0,000	0,000	-51,355	0,0000	0,0000
20	Fh_ka	GLOBAL	-25,900	0,000	0,000	0,0000	0,0000
20	Fh_k0	GLOBAL	-40,750	0,000	0,000	0,0000	0,0000
20	Fh_kd	GLOBAL	-48,860	0,000	0,000	0,0000	0,0000
20	Fv*kv	GLOBAL	0,000	0,000	-6,056	0,0000	0,0000
20	Edx	GLOBAL	-35,010	0,000	0,000	0,0000	0,0000
20	Pvdx*kh*kv	GLOBAL	-1,090	0,000	0,000	0,0000	0,0000
20	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
20	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
20	Fhq_ka	GLOBAL	-3,540	0,000	0,000	0,0000	0,0000
20	Fhq_k0	GLOBAL	-5,570	0,000	0,000	0,0000	0,0000
21	Fvq	GLOBAL	0,000	0,000	-8,169	0,0000	0,0000
21	Fv	GLOBAL	0,000	0,000	-55,496	0,0000	0,0000
21	Fh_ka	GLOBAL	-22,320	0,000	0,000	0,0000	0,0000
21	Fh_k0	GLOBAL	-35,130	0,000	0,000	0,0000	0,0000
21	Fh_kd	GLOBAL	-42,120	0,000	0,000	0,0000	0,0000
21	Fv*kv	GLOBAL	0,000	0,000	-6,543	0,0000	0,0000
21	Edx	GLOBAL	-33,050	0,000	0,000	0,0000	0,0000
21	Pvdx*kh*kv	GLOBAL	-1,030	0,000	0,000	0,0000	0,0000
21	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
21	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
21	Fhq_ka	GLOBAL	-3,340	0,000	0,000	0,0000	0,0000
21	Fhq_k0	GLOBAL	-5,260	0,000	0,000	0,0000	0,0000
22	Fvq	GLOBAL	0,000	0,000	-9,318	0,0000	0,0000
22	Fv	GLOBAL	0,000	0,000	-58,113	0,0000	0,0000
22	Fh_ka	GLOBAL	-18,940	0,000	0,000	0,0000	0,0000
22	Fh_k0	GLOBAL	-29,800	0,000	0,000	0,0000	0,0000
22	Fh_kd	GLOBAL	-35,730	0,000	0,000	0,0000	0,0000
22	Fv*kv	GLOBAL	0,000	0,000	-6,852	0,0000	0,0000
22	Edx	GLOBAL	-30,790	0,000	0,000	0,0000	0,0000
22	Pvdx*kh*kv	GLOBAL	-0,960	0,000	0,000	0,0000	0,0000
22	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
22	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
22	Fhq_ka	GLOBAL	-3,110	0,000	0,000	0,0000	0,0000
22	Fhq_k0	GLOBAL	-4,900	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
23	Fvq	GLOBAL	0,000	0,000	-10,380	0,0000	0,0000
23	Fv	GLOBAL	0,000	0,000	-59,478	0,0000	0,0000
23	Fh_ka	GLOBAL	-15,800	0,000	0,000	0,0000	0,0000
23	Fh_k0	GLOBAL	-24,860	0,000	0,000	0,0000	0,0000
23	Fh_kd	GLOBAL	-29,810	0,000	0,000	0,0000	0,0000
23	Fv*kv	GLOBAL	0,000	0,000	-7,013	0,0000	0,0000
23	Edx	GLOBAL	-28,250	0,000	0,000	0,0000	0,0000
23	Pvdx*kh*kv	GLOBAL	-0,880	0,000	0,000	0,0000	0,0000
23	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
23	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
23	Fhq_ka	GLOBAL	-2,860	0,000	0,000	0,0000	0,0000
23	Fhq_k0	GLOBAL	-4,490	0,000	0,000	0,0000	0,0000
24	Fvq	GLOBAL	0,000	0,000	-11,346	0,0000	0,0000
24	Fv	GLOBAL	0,000	0,000	-59,886	0,0000	0,0000
24	Fh_ka	GLOBAL	-12,940	0,000	0,000	0,0000	0,0000
24	Fh_k0	GLOBAL	-20,360	0,000	0,000	0,0000	0,0000
24	Fh_kd	GLOBAL	-24,410	0,000	0,000	0,0000	0,0000
24	Fv*kv	GLOBAL	0,000	0,000	-7,061	0,0000	0,0000
24	Edx	GLOBAL	-25,440	0,000	0,000	0,0000	0,0000
24	Pvdx*kh*kv	GLOBAL	-0,790	0,000	0,000	0,0000	0,0000
24	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
24	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
24	Fhq_ka	GLOBAL	-2,570	0,000	0,000	0,0000	0,0000
24	Fhq_k0	GLOBAL	-4,050	0,000	0,000	0,0000	0,0000
25	Fvq	GLOBAL	0,000	0,000	-12,206	0,0000	0,0000
25	Fv	GLOBAL	0,000	0,000	-59,631	0,0000	0,0000
25	Fh_ka	GLOBAL	-10,380	0,000	0,000	0,0000	0,0000
25	Fh_k0	GLOBAL	-16,330	0,000	0,000	0,0000	0,0000
25	Fh_kd	GLOBAL	-19,580	0,000	0,000	0,0000	0,0000
25	Fv*kv	GLOBAL	0,000	0,000	-7,031	0,0000	0,0000
25	Edx	GLOBAL	-22,400	0,000	0,000	0,0000	0,0000
25	Pvdx*kh*kv	GLOBAL	-0,700	0,000	0,000	0,0000	0,0000
25	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
25	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
25	Fhq_ka	GLOBAL	-2,260	0,000	0,000	0,0000	0,0000
25	Fhq_k0	GLOBAL	-3,560	0,000	0,000	0,0000	0,0000
26	Fvq	GLOBAL	0,000	0,000	-12,836	0,0000	0,0000
26	Fv	GLOBAL	0,000	0,000	-58,464	0,0000	0,0000
26	Fh_ka	GLOBAL	-8,380	0,000	0,000	0,0000	0,0000
26	Fh_k0	GLOBAL	-13,190	0,000	0,000	0,0000	0,0000
26	Fh_kd	GLOBAL	-15,820	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
26	Fv*kv	GLOBAL	0,000	0,000	-6,893	0,0000	0,0000
26	Edx	GLOBAL	-19,780	0,000	0,000	0,0000	0,0000
26	Pvdx*kh*kv	GLOBAL	-0,620	0,000	0,000	0,0000	0,0000
26	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
26	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
26	Fhq_ka	GLOBAL	-2,000	0,000	0,000	0,0000	0,0000
26	Fhq_k0	GLOBAL	-3,150	0,000	0,000	0,0000	0,0000
27	Fvq	GLOBAL	0,000	0,000	-13,300	0,0000	0,0000
27	Fv	GLOBAL	0,000	0,000	-56,731	0,0000	0,0000
27	Fh_ka	GLOBAL	-6,770	0,000	0,000	0,0000	0,0000
27	Fh_k0	GLOBAL	-10,650	0,000	0,000	0,0000	0,0000
27	Fh_kd	GLOBAL	-12,770	0,000	0,000	0,0000	0,0000
27	Fv*kv	GLOBAL	0,000	0,000	-6,689	0,0000	0,0000
27	Edx	GLOBAL	-17,410	0,000	0,000	0,0000	0,0000
27	Pvdx*kh*kv	GLOBAL	-0,540	0,000	0,000	0,0000	0,0000
27	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
27	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
27	Fhq_ka	GLOBAL	-1,760	0,000	0,000	0,0000	0,0000
27	Fhq_k0	GLOBAL	-2,770	0,000	0,000	0,0000	0,0000
28	Fvq	GLOBAL	0,000	0,000	-13,788	0,0000	0,0000
28	Fv	GLOBAL	0,000	0,000	-55,527	0,0000	0,0000
28	Fh_ka	GLOBAL	-5,150	0,000	0,000	0,0000	0,0000
28	Fh_k0	GLOBAL	-8,110	0,000	0,000	0,0000	0,0000
28	Fh_kd	GLOBAL	-9,720	0,000	0,000	0,0000	0,0000
28	Fv*kv	GLOBAL	0,000	0,000	-6,547	0,0000	0,0000
28	Edx	GLOBAL	-14,380	0,000	0,000	0,0000	0,0000
28	Pvdx*kh*kv	GLOBAL	-0,450	0,000	0,000	0,0000	0,0000
28	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
28	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
28	Fhq_ka	GLOBAL	-1,450	0,000	0,000	0,0000	0,0000
28	Fhq_k0	GLOBAL	-2,290	0,000	0,000	0,0000	0,0000
29	Fvq	GLOBAL	0,000	0,000	-14,225	0,0000	0,0000
29	Fv	GLOBAL	0,000	0,000	-54,848	0,0000	0,0000
29	Fh_ka	GLOBAL	-3,640	0,000	0,000	0,0000	0,0000
29	Fh_k0	GLOBAL	-5,730	0,000	0,000	0,0000	0,0000
29	Fh_kd	GLOBAL	-6,870	0,000	0,000	0,0000	0,0000
29	Fv*kv	GLOBAL	0,000	0,000	-6,467	0,0000	0,0000
29	Edx	GLOBAL	-10,890	0,000	0,000	0,0000	0,0000
29	Pvdx*kh*kv	GLOBAL	-0,340	0,000	0,000	0,0000	0,0000
29	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
29	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000



Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
29	Fhq_ka	GLOBAL	-1,100	0,000	0,000	0,0000	0,0000
29	Fhq_k0	GLOBAL	-1,730	0,000	0,000	0,0000	0,0000
30	Fvq	GLOBAL	0,000	0,000	-14,541	0,0000	0,0000
30	Fv	GLOBAL	0,000	0,000	-54,551	0,0000	0,0000
30	Fh_ka	GLOBAL	-2,320	0,000	0,000	0,0000	0,0000
30	Fh_k0	GLOBAL	-3,650	0,000	0,000	0,0000	0,0000
30	Fh_kd	GLOBAL	-4,380	0,000	0,000	0,0000	0,0000
30	Fv*kv	GLOBAL	0,000	0,000	-6,432	0,0000	0,0000
30	Edx	GLOBAL	-7,320	0,000	0,000	0,0000	0,0000
30	Pvdx*kh*kv	GLOBAL	-0,230	0,000	0,000	0,0000	0,0000
30	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
30	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
30	Fhq_ka	GLOBAL	-0,740	0,000	0,000	0,0000	0,0000
30	Fhq_k0	GLOBAL	-1,160	0,000	0,000	0,0000	0,0000
31	Fvq	GLOBAL	0,000	0,000	-14,731	0,0000	0,0000
31	Fv	GLOBAL	0,000	0,000	-54,745	0,0000	0,0000
31	Fh_ka	GLOBAL	-1,130	0,000	0,000	0,0000	0,0000
31	Fh_k0	GLOBAL	-1,770	0,000	0,000	0,0000	0,0000
31	Fh_kd	GLOBAL	-2,130	0,000	0,000	0,0000	0,0000
31	Fv*kv	GLOBAL	0,000	0,000	-6,455	0,0000	0,0000
31	Edx	GLOBAL	-3,670	0,000	0,000	0,0000	0,0000
31	Pvdx*kh*kv	GLOBAL	-0,110	0,000	0,000	0,0000	0,0000
31	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
31	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
31	Fhq_ka	GLOBAL	-0,370	0,000	0,000	0,0000	0,0000
31	Fhq_k0	GLOBAL	-0,580	0,000	0,000	0,0000	0,0000
32	Fvq	GLOBAL	0,000	0,000	-14,795	0,0000	0,0000
32	Fv	GLOBAL	0,000	0,000	-55,480	0,0000	0,0000
32	Fh_ka	GLOBAL	0,420	0,000	0,000	0,0000	0,0000
32	Fh_ka	GLOBAL	-0,280	0,000	0,000	0,0000	0,0000
32	Fh_k0	GLOBAL	0,660	0,000	0,000	0,0000	0,0000
32	Fh_k0	GLOBAL	-0,440	0,000	0,000	0,0000	0,0000
32	Fh_kd	GLOBAL	0,790	0,000	0,000	0,0000	0,0000
32	Fh_kd	GLOBAL	-0,530	0,000	0,000	0,0000	0,0000
32	Fv*kv	GLOBAL	0,000	0,000	-6,541	0,0000	0,0000
32	Esx	GLOBAL	0,920	0,000	0,000	0,0000	0,0000
32	Edx	GLOBAL	-0,920	0,000	0,000	0,0000	0,0000
32	Pvdx*kh*kv	GLOBAL	-0,030	0,000	0,000	0,0000	0,0000
32	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
32	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
32	Fhq_ka	GLOBAL	0,090	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
32	Fhq_ka	GLOBAL	-0,090	0,000	0,000	0,0000	0,0000
32	Fhq_k0	GLOBAL	0,150	0,000	0,000	0,0000	0,0000
32	Fhq_k0	GLOBAL	-0,150	0,000	0,000	0,0000	0,0000
1	Kv*PP	GLOBAL	0,000	0,000	-1,650	0,0000	0,0000
1	Kh*PP	GLOBAL	3,300	0,000	0,000	0,0000	0,0000
2	Kv*PP	GLOBAL	0,000	0,000	-1,860	0,0000	0,0000
2	Kh*PP	GLOBAL	3,710	0,000	0,000	0,0000	0,0000
3	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
3	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
4	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
4	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
5	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
5	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
6	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
6	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
7	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
7	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
8	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
8	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
9	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
9	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
10	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
10	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
62	Kv*PP	GLOBAL	0,000	0,000	-1,860	0,0000	0,0000
62	Kh*PP	GLOBAL	3,710	0,000	0,000	0,0000	0,0000
61	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
61	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
1001	Fh_ka	GLOBAL	54,520	0,000	0,000	0,0000	0,0000
1001	Fh_k0	GLOBAL	85,790	0,000	0,000	0,0000	0,0000
1001	Fh_kd	GLOBAL	102,860	0,000	0,000	0,0000	0,0000
1001	Esx	GLOBAL	33,990	0,000	0,000	0,0000	0,0000
1001	Pvsx*kh*kv	GLOBAL	1,590	0,000	0,000	0,0000	0,0000
1001	Kv*PP	GLOBAL	0,000	0,000	-4,210	0,0000	0,0000
1001	Kh*PP	GLOBAL	8,420	0,000	0,000	0,0000	0,0000
1001	Fhq_ka	GLOBAL	3,440	0,000	0,000	0,0000	0,0000
1001	Fhq_k0	GLOBAL	5,410	0,000	0,000	0,0000	0,0000
53	Kv*PP	GLOBAL	0,000	0,000	-3,380	0,0000	0,0000
53	Kh*PP	GLOBAL	6,750	0,000	0,000	0,0000	0,0000
52	Fh_ka	GLOBAL	79,480	0,000	0,000	0,0000	0,0000
52	Fh_k0	GLOBAL	125,070	0,000	0,000	0,0000	0,0000
52	Fh_kd	GLOBAL	149,960	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
52	Esx	GLOBAL	53,850	0,000	0,000	0,0000	0,0000
52	Pvsx*kh*kv	GLOBAL	2,510	0,000	0,000	0,0000	0,0000
52	Kv*PP	GLOBAL	0,000	0,000	-2,960	0,0000	0,0000
52	Kh*PP	GLOBAL	5,920	0,000	0,000	0,0000	0,0000
52	Fhq_ka	GLOBAL	5,440	0,000	0,000	0,0000	0,0000
52	Fhq_k0	GLOBAL	8,570	0,000	0,000	0,0000	0,0000
48	Fvq	GLOBAL	0,000	0,000	-1,117	0,0000	0,0000
48	Fv	GLOBAL	0,000	0,000	-12,994	0,0000	0,0000
48	Fh_ka	GLOBAL	46,440	0,000	0,000	0,0000	0,0000
48	Fh_k0	GLOBAL	73,080	0,000	0,000	0,0000	0,0000
48	Fh_kd	GLOBAL	87,620	0,000	0,000	0,0000	0,0000
48	Fv*kv	GLOBAL	0,000	0,000	-1,532	0,0000	0,0000
48	Esx	GLOBAL	39,480	0,000	0,000	0,0000	0,0000
48	Pvsx*kh*kv	GLOBAL	1,840	0,000	0,000	0,0000	0,0000
48	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
48	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
48	Fhq_ka	GLOBAL	3,990	0,000	0,000	0,0000	0,0000
48	Fhq_k0	GLOBAL	6,280	0,000	0,000	0,0000	0,0000
47	Fvq	GLOBAL	0,000	0,000	-2,933	0,0000	0,0000
47	Fv	GLOBAL	0,000	0,000	-31,942	0,0000	0,0000
47	Fh_ka	GLOBAL	42,830	0,000	0,000	0,0000	0,0000
47	Fh_k0	GLOBAL	67,400	0,000	0,000	0,0000	0,0000
47	Fh_kd	GLOBAL	80,810	0,000	0,000	0,0000	0,0000
47	Fv*kv	GLOBAL	0,000	0,000	-3,766	0,0000	0,0000
47	Esx	GLOBAL	38,860	0,000	0,000	0,0000	0,0000
47	Pvsx*kh*kv	GLOBAL	1,810	0,000	0,000	0,0000	0,0000
47	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
47	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
47	Fhq_ka	GLOBAL	3,930	0,000	0,000	0,0000	0,0000
47	Fhq_k0	GLOBAL	6,180	0,000	0,000	0,0000	0,0000
46	Fvq	GLOBAL	0,000	0,000	-4,314	0,0000	0,0000
46	Fv	GLOBAL	0,000	0,000	-43,816	0,0000	0,0000
46	Fh_ka	GLOBAL	39,050	0,000	0,000	0,0000	0,0000
46	Fh_k0	GLOBAL	61,440	0,000	0,000	0,0000	0,0000
46	Fh_kd	GLOBAL	73,670	0,000	0,000	0,0000	0,0000
46	Fv*kv	GLOBAL	0,000	0,000	-5,166	0,0000	0,0000
46	Esx	GLOBAL	37,920	0,000	0,000	0,0000	0,0000
46	Pvsx*kh*kv	GLOBAL	1,770	0,000	0,000	0,0000	0,0000
46	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
46	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
46	Fhq_ka	GLOBAL	3,830	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
46	Fhq_k0	GLOBAL	6,030	0,000	0,000	0,0000	0,0000
45	Fvq	GLOBAL	0,000	0,000	-5,656	0,0000	0,0000
45	Fv	GLOBAL	0,000	0,000	-53,368	0,0000	0,0000
45	Fh_ka	GLOBAL	35,140	0,000	0,000	0,0000	0,0000
45	Fh_k0	GLOBAL	55,290	0,000	0,000	0,0000	0,0000
45	Fh_kd	GLOBAL	66,300	0,000	0,000	0,0000	0,0000
45	Fv*kv	GLOBAL	0,000	0,000	-6,292	0,0000	0,0000
45	Esx	GLOBAL	36,640	0,000	0,000	0,0000	0,0000
45	Pvsx*kh*kv	GLOBAL	1,710	0,000	0,000	0,0000	0,0000
45	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
45	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
45	Fhq_ka	GLOBAL	3,700	0,000	0,000	0,0000	0,0000
45	Fhq_k0	GLOBAL	5,830	0,000	0,000	0,0000	0,0000
44	Fvq	GLOBAL	0,000	0,000	-6,945	0,0000	0,0000
44	Fv	GLOBAL	0,000	0,000	-60,676	0,0000	0,0000
44	Fh_ka	GLOBAL	31,210	0,000	0,000	0,0000	0,0000
44	Fh_k0	GLOBAL	49,100	0,000	0,000	0,0000	0,0000
44	Fh_kd	GLOBAL	58,880	0,000	0,000	0,0000	0,0000
44	Fv*kv	GLOBAL	0,000	0,000	-7,154	0,0000	0,0000
44	Esx	GLOBAL	35,010	0,000	0,000	0,0000	0,0000
44	Pvsx*kh*kv	GLOBAL	1,630	0,000	0,000	0,0000	0,0000
44	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
44	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
44	Fhq_ka	GLOBAL	3,540	0,000	0,000	0,0000	0,0000
44	Fhq_k0	GLOBAL	5,570	0,000	0,000	0,0000	0,0000
43	Fvq	GLOBAL	0,000	0,000	-8,169	0,0000	0,0000
43	Fv	GLOBAL	0,000	0,000	-65,890	0,0000	0,0000
43	Fh_ka	GLOBAL	27,340	0,000	0,000	0,0000	0,0000
43	Fh_k0	GLOBAL	43,020	0,000	0,000	0,0000	0,0000
43	Fh_kd	GLOBAL	51,580	0,000	0,000	0,0000	0,0000
43	Fv*kv	GLOBAL	0,000	0,000	-7,769	0,0000	0,0000
43	Esx	GLOBAL	33,050	0,000	0,000	0,0000	0,0000
43	Pvsx*kh*kv	GLOBAL	1,540	0,000	0,000	0,0000	0,0000
43	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
43	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
43	Fhq_ka	GLOBAL	3,340	0,000	0,000	0,0000	0,0000
43	Fhq_k0	GLOBAL	5,260	0,000	0,000	0,0000	0,0000
42	Fvq	GLOBAL	0,000	0,000	-9,318	0,0000	0,0000
42	Fv	GLOBAL	0,000	0,000	-69,219	0,0000	0,0000
42	Fh_ka	GLOBAL	23,610	0,000	0,000	0,0000	0,0000
42	Fh_k0	GLOBAL	37,150	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
42	Fh_kd	GLOBAL	44,550	0,000	0,000	0,0000	0,0000
42	Fv*kv	GLOBAL	0,000	0,000	-8,161	0,0000	0,0000
42	Esx	GLOBAL	30,790	0,000	0,000	0,0000	0,0000
42	Pvsx*kh*kv	GLOBAL	1,440	0,000	0,000	0,0000	0,0000
42	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
42	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
42	Fhq_ka	GLOBAL	3,110	0,000	0,000	0,0000	0,0000
42	Fhq_k0	GLOBAL	4,900	0,000	0,000	0,0000	0,0000
41	Fvq	GLOBAL	0,000	0,000	-10,380	0,0000	0,0000
41	Fv	GLOBAL	0,000	0,000	-70,908	0,0000	0,0000
41	Fh_ka	GLOBAL	20,080	0,000	0,000	0,0000	0,0000
41	Fh_k0	GLOBAL	31,600	0,000	0,000	0,0000	0,0000
41	Fh_kd	GLOBAL	37,890	0,000	0,000	0,0000	0,0000
41	Fv*kv	GLOBAL	0,000	0,000	-8,361	0,0000	0,0000
41	Esx	GLOBAL	28,250	0,000	0,000	0,0000	0,0000
41	Pvsx*kh*kv	GLOBAL	1,320	0,000	0,000	0,0000	0,0000
41	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
41	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
41	Fhq_ka	GLOBAL	2,860	0,000	0,000	0,0000	0,0000
41	Fhq_k0	GLOBAL	4,490	0,000	0,000	0,0000	0,0000
40	Fvq	GLOBAL	0,000	0,000	-11,346	0,0000	0,0000
40	Fv	GLOBAL	0,000	0,000	-71,244	0,0000	0,0000
40	Fh_ka	GLOBAL	16,790	0,000	0,000	0,0000	0,0000
40	Fh_k0	GLOBAL	26,430	0,000	0,000	0,0000	0,0000
40	Fh_kd	GLOBAL	31,690	0,000	0,000	0,0000	0,0000
40	Fv*kv	GLOBAL	0,000	0,000	-8,400	0,0000	0,0000
40	Esx	GLOBAL	25,440	0,000	0,000	0,0000	0,0000
40	Pvsx*kh*kv	GLOBAL	1,190	0,000	0,000	0,0000	0,0000
40	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
40	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
40	Fhq_ka	GLOBAL	2,570	0,000	0,000	0,0000	0,0000
40	Fhq_k0	GLOBAL	4,050	0,000	0,000	0,0000	0,0000
39	Fvq	GLOBAL	0,000	0,000	-12,206	0,0000	0,0000
39	Fv	GLOBAL	0,000	0,000	-70,527	0,0000	0,0000
39	Fh_ka	GLOBAL	13,770	0,000	0,000	0,0000	0,0000
39	Fh_k0	GLOBAL	21,670	0,000	0,000	0,0000	0,0000
39	Fh_kd	GLOBAL	25,990	0,000	0,000	0,0000	0,0000
39	Fv*kv	GLOBAL	0,000	0,000	-8,316	0,0000	0,0000
39	Esx	GLOBAL	22,400	0,000	0,000	0,0000	0,0000
39	Pvsx*kh*kv	GLOBAL	1,050	0,000	0,000	0,0000	0,0000
39	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
39	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
39	Fhq_ka	GLOBAL	2,260	0,000	0,000	0,0000	0,0000
39	Fhq_k0	GLOBAL	3,560	0,000	0,000	0,0000	0,0000
38	Fvq	GLOBAL	0,000	0,000	-12,836	0,0000	0,0000
38	Fv	GLOBAL	0,000	0,000	-68,430	0,0000	0,0000
38	Fh_ka	GLOBAL	11,380	0,000	0,000	0,0000	0,0000
38	Fh_k0	GLOBAL	17,910	0,000	0,000	0,0000	0,0000
38	Fh_kd	GLOBAL	21,480	0,000	0,000	0,0000	0,0000
38	Fv*kv	GLOBAL	0,000	0,000	-8,069	0,0000	0,0000
38	Esx	GLOBAL	19,780	0,000	0,000	0,0000	0,0000
38	Pvsx*kh*kv	GLOBAL	0,920	0,000	0,000	0,0000	0,0000
38	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
38	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
38	Fhq_ka	GLOBAL	2,000	0,000	0,000	0,0000	0,0000
38	Fhq_k0	GLOBAL	3,150	0,000	0,000	0,0000	0,0000
37	Fvq	GLOBAL	0,000	0,000	-13,300	0,0000	0,0000
37	Fv	GLOBAL	0,000	0,000	-65,465	0,0000	0,0000
37	Fh_ka	GLOBAL	9,410	0,000	0,000	0,0000	0,0000
37	Fh_k0	GLOBAL	14,800	0,000	0,000	0,0000	0,0000
37	Fh_kd	GLOBAL	17,750	0,000	0,000	0,0000	0,0000
37	Fv*kv	GLOBAL	0,000	0,000	-7,719	0,0000	0,0000
37	Esx	GLOBAL	17,410	0,000	0,000	0,0000	0,0000
37	Pvsx*kh*kv	GLOBAL	0,810	0,000	0,000	0,0000	0,0000
37	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
37	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
37	Fhq_ka	GLOBAL	1,760	0,000	0,000	0,0000	0,0000
37	Fhq_k0	GLOBAL	2,770	0,000	0,000	0,0000	0,0000
36	Fvq	GLOBAL	0,000	0,000	-13,788	0,0000	0,0000
36	Fv	GLOBAL	0,000	0,000	-62,866	0,0000	0,0000
36	Fh_ka	GLOBAL	7,330	0,000	0,000	0,0000	0,0000
36	Fh_k0	GLOBAL	11,540	0,000	0,000	0,0000	0,0000
36	Fh_kd	GLOBAL	13,830	0,000	0,000	0,0000	0,0000
36	Fv*kv	GLOBAL	0,000	0,000	-7,412	0,0000	0,0000
36	Esx	GLOBAL	14,380	0,000	0,000	0,0000	0,0000
36	Pvsx*kh*kv	GLOBAL	0,670	0,000	0,000	0,0000	0,0000
36	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
36	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
36	Fhq_ka	GLOBAL	1,450	0,000	0,000	0,0000	0,0000
36	Fhq_k0	GLOBAL	2,290	0,000	0,000	0,0000	0,0000
35	Fvq	GLOBAL	0,000	0,000	-14,225	0,0000	0,0000
35	Fv	GLOBAL	0,000	0,000	-60,584	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
35	Fh_ka	GLOBAL	5,300	0,000	0,000	0,0000	0,0000
35	Fh_k0	GLOBAL	8,330	0,000	0,000	0,0000	0,0000
35	Fh_kd	GLOBAL	9,990	0,000	0,000	0,0000	0,0000
35	Fv*kv	GLOBAL	0,000	0,000	-7,143	0,0000	0,0000
35	Esx	GLOBAL	10,890	0,000	0,000	0,0000	0,0000
35	Pvsx*kh*kv	GLOBAL	0,510	0,000	0,000	0,0000	0,0000
35	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
35	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
35	Fhq_ka	GLOBAL	1,100	0,000	0,000	0,0000	0,0000
35	Fhq_k0	GLOBAL	1,730	0,000	0,000	0,0000	0,0000
34	Fvq	GLOBAL	0,000	0,000	-14,541	0,0000	0,0000
34	Fv	GLOBAL	0,000	0,000	-58,488	0,0000	0,0000
34	Fh_ka	GLOBAL	3,430	0,000	0,000	0,0000	0,0000
34	Fh_k0	GLOBAL	5,400	0,000	0,000	0,0000	0,0000
34	Fh_kd	GLOBAL	6,470	0,000	0,000	0,0000	0,0000
34	Fv*kv	GLOBAL	0,000	0,000	-6,896	0,0000	0,0000
34	Esx	GLOBAL	7,320	0,000	0,000	0,0000	0,0000
34	Pvsx*kh*kv	GLOBAL	0,340	0,000	0,000	0,0000	0,0000
34	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
34	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
34	Fhq_ka	GLOBAL	0,740	0,000	0,000	0,0000	0,0000
34	Fhq_k0	GLOBAL	1,160	0,000	0,000	0,0000	0,0000
33	Fvq	GLOBAL	0,000	0,000	-14,731	0,0000	0,0000
33	Fv	GLOBAL	0,000	0,000	-56,748	0,0000	0,0000
33	Fh_ka	GLOBAL	1,680	0,000	0,000	0,0000	0,0000
33	Fh_k0	GLOBAL	2,650	0,000	0,000	0,0000	0,0000
33	Fh_kd	GLOBAL	3,180	0,000	0,000	0,0000	0,0000
33	Fv*kv	GLOBAL	0,000	0,000	-6,691	0,0000	0,0000
33	Esx	GLOBAL	3,670	0,000	0,000	0,0000	0,0000
33	Pvsx*kh*kv	GLOBAL	0,170	0,000	0,000	0,0000	0,0000
33	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
33	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
33	Fhq_ka	GLOBAL	0,370	0,000	0,000	0,0000	0,0000
33	Fhq_k0	GLOBAL	0,580	0,000	0,000	0,0000	0,0000
60	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
60	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
59	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
59	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
58	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
58	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
57	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
57	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
56	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
56	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
55	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
55	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
54	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
54	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
15	Fh_ka	GLOBAL	-43,680	0,000	0,000	0,0000	0,0000
15	Fh_k0	GLOBAL	-68,740	0,000	0,000	0,0000	0,0000
15	Fh_kd	GLOBAL	-82,420	0,000	0,000	0,0000	0,0000
15	Edx	GLOBAL	-39,730	0,000	0,000	0,0000	0,0000
15	Pvdx*kh*kv	GLOBAL	-1,240	0,000	0,000	0,0000	0,0000
15	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
15	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
15	Fhq_ka	GLOBAL	-4,020	0,000	0,000	0,0000	0,0000
15	Fhq_k0	GLOBAL	-6,320	0,000	0,000	0,0000	0,0000
14	Fh_ka	GLOBAL	-46,660	0,000	0,000	0,0000	0,0000
14	Fh_k0	GLOBAL	-73,420	0,000	0,000	0,0000	0,0000
14	Fh_kd	GLOBAL	-88,030	0,000	0,000	0,0000	0,0000
14	Edx	GLOBAL	-39,730	0,000	0,000	0,0000	0,0000
14	Pvdx*kh*kv	GLOBAL	-1,240	0,000	0,000	0,0000	0,0000
14	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
14	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
14	Fhq_ka	GLOBAL	-4,020	0,000	0,000	0,0000	0,0000
14	Fhq_k0	GLOBAL	-6,320	0,000	0,000	0,0000	0,0000
13	Fh_ka	GLOBAL	-49,640	0,000	0,000	0,0000	0,0000
13	Fh_k0	GLOBAL	-78,110	0,000	0,000	0,0000	0,0000
13	Fh_kd	GLOBAL	-93,650	0,000	0,000	0,0000	0,0000
13	Edx	GLOBAL	-39,730	0,000	0,000	0,0000	0,0000
13	Pvdx*kh*kv	GLOBAL	-1,240	0,000	0,000	0,0000	0,0000
13	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
13	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
13	Fhq_ka	GLOBAL	-4,020	0,000	0,000	0,0000	0,0000
13	Fhq_k0	GLOBAL	-6,320	0,000	0,000	0,0000	0,0000
50	Fh_ka	GLOBAL	52,680	0,000	0,000	0,0000	0,0000
50	Fh_k0	GLOBAL	82,900	0,000	0,000	0,0000	0,0000
50	Fh_kd	GLOBAL	99,400	0,000	0,000	0,0000	0,0000
50	Esx	GLOBAL	39,730	0,000	0,000	0,0000	0,0000
50	Pvsx*kh*kv	GLOBAL	1,850	0,000	0,000	0,0000	0,0000
50	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
50	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000



Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
50	Fhq_ka	GLOBAL	4,020	0,000	0,000	0,0000	0,0000
50	Fhq_k0	GLOBAL	6,320	0,000	0,000	0,0000	0,0000
51	Fh_ka	GLOBAL	55,660	0,000	0,000	0,0000	0,0000
51	Fh_k0	GLOBAL	87,590	0,000	0,000	0,0000	0,0000
51	Fh_kd	GLOBAL	105,020	0,000	0,000	0,0000	0,0000
51	Esx	GLOBAL	39,730	0,000	0,000	0,0000	0,0000
51	Pvsx*kh*kv	GLOBAL	1,850	0,000	0,000	0,0000	0,0000
51	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
51	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
51	Fhq_ka	GLOBAL	4,020	0,000	0,000	0,0000	0,0000
51	Fhq_k0	GLOBAL	6,320	0,000	0,000	0,0000	0,0000
49	Fh_ka	GLOBAL	49,710	0,000	0,000	0,0000	0,0000
49	Fh_k0	GLOBAL	78,220	0,000	0,000	0,0000	0,0000
49	Fh_kd	GLOBAL	93,780	0,000	0,000	0,0000	0,0000
49	Esx	GLOBAL	39,730	0,000	0,000	0,0000	0,0000
49	Pvsx*kh*kv	GLOBAL	1,850	0,000	0,000	0,0000	0,0000
49	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
49	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
49	Fhq_ka	GLOBAL	4,020	0,000	0,000	0,0000	0,0000
49	Fhq_k0	GLOBAL	6,320	0,000	0,000	0,0000	0,0000
1002	Fh_ka	GLOBAL	-49,310	0,000	0,000	0,0000	0,0000
1002	Fh_k0	GLOBAL	-77,600	0,000	0,000	0,0000	0,0000
1002	Fh_kd	GLOBAL	-93,040	0,000	0,000	0,0000	0,0000
1002	Edx	GLOBAL	-33,950	0,000	0,000	0,0000	0,0000
1002	Pvdx*kh*kv	GLOBAL	-1,060	0,000	0,000	0,0000	0,0000
1002	Kv*PP	GLOBAL	0,000	0,000	-4,210	0,0000	0,0000
1002	Kh*PP	GLOBAL	8,420	0,000	0,000	0,0000	0,0000
1002	Fhq_ka	GLOBAL	-3,430	0,000	0,000	0,0000	0,0000
1002	Fhq_k0	GLOBAL	-5,400	0,000	0,000	0,0000	0,0000

**Table: Joint Loads - Force, Part 2 of 2**

Joint	LoadCase	M3
Text	Text	KN-m
11	Kv*PP	0,0000
11	Kh*PP	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
12	Fh_ka	0,0000
12	Fh_k0	0,0000
12	Fh_kd	0,0000
12	Edx	0,0000
12	Pvdx*kh*kv	0,0000
12	Kv*PP	0,0000
12	Kh*PP	0,0000
12	Fhq_ka	0,0000
12	Fhq_k0	0,0000
16	Fvq	0,0000
16	Fv	0,0000
16	Fh_ka	0,0000
16	Fh_k0	0,0000
16	Fh_kd	0,0000
16	Fv*kv	0,0000
16	Edx	0,0000
16	Pvdx*kh*kv	0,0000
16	Kv*PP	0,0000
16	Kh*PP	0,0000
16	Fhq_ka	0,0000
16	Fhq_k0	0,0000
17	Fvq	0,0000
17	Fv	0,0000
17	Fh_ka	0,0000
17	Fh_k0	0,0000
17	Fh_kd	0,0000
17	Fv*kv	0,0000
17	Edx	0,0000
17	Pvdx*kh*kv	0,0000
17	Kv*PP	0,0000
17	Kh*PP	0,0000
17	Fhq_ka	0,0000
17	Fhq_k0	0,0000
18	Fvq	0,0000
18	Fv	0,0000
18	Fh_ka	0,0000
18	Fh_k0	0,0000
18	Fh_kd	0,0000
18	Fv*kv	0,0000
18	Edx	0,0000
18	Pvdx*kh*kv	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
18	Kv*PP	0,0000
18	Kh*PP	0,0000
18	Fhq_ka	0,0000
18	Fhq_k0	0,0000
19	Fvq	0,0000
19	Fv	0,0000
19	Fh_ka	0,0000
19	Fh_k0	0,0000
19	Fh_kd	0,0000
19	Fv*kv	0,0000
19	Edx	0,0000
19	Pvdx*kh*kv	0,0000
19	Kv*PP	0,0000
19	Kh*PP	0,0000
19	Fhq_ka	0,0000
19	Fhq_k0	0,0000
20	Fvq	0,0000
20	Fv	0,0000
20	Fh_ka	0,0000
20	Fh_k0	0,0000
20	Fh_kd	0,0000
20	Fv*kv	0,0000
20	Edx	0,0000
20	Pvdx*kh*kv	0,0000
20	Kv*PP	0,0000
20	Kh*PP	0,0000
20	Fhq_ka	0,0000
20	Fhq_k0	0,0000
21	Fvq	0,0000
21	Fv	0,0000
21	Fh_ka	0,0000
21	Fh_k0	0,0000
21	Fh_kd	0,0000
21	Fv*kv	0,0000
21	Edx	0,0000
21	Pvdx*kh*kv	0,0000
21	Kv*PP	0,0000
21	Kh*PP	0,0000
21	Fhq_ka	0,0000
21	Fhq_k0	0,0000
22	Fvq	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
22	Fv	0,0000
22	Fh_ka	0,0000
22	Fh_k0	0,0000
22	Fh_kd	0,0000
22	Fv*kv	0,0000
22	Edx	0,0000
22	Pvdx*kh*kv	0,0000
22	Kv*PP	0,0000
22	Kh*PP	0,0000
22	Fhq_ka	0,0000
22	Fhq_k0	0,0000
23	Fvq	0,0000
23	Fv	0,0000
23	Fh_ka	0,0000
23	Fh_k0	0,0000
23	Fh_kd	0,0000
23	Fv*kv	0,0000
23	Edx	0,0000
23	Pvdx*kh*kv	0,0000
23	Kv*PP	0,0000
23	Kh*PP	0,0000
23	Fhq_ka	0,0000
23	Fhq_k0	0,0000
24	Fvq	0,0000
24	Fv	0,0000
24	Fh_ka	0,0000
24	Fh_k0	0,0000
24	Fh_kd	0,0000
24	Fv*kv	0,0000
24	Edx	0,0000
24	Pvdx*kh*kv	0,0000
24	Kv*PP	0,0000
24	Kh*PP	0,0000
24	Fhq_ka	0,0000
24	Fhq_k0	0,0000
25	Fvq	0,0000
25	Fv	0,0000
25	Fh_ka	0,0000
25	Fh_k0	0,0000
25	Fh_kd	0,0000
25	Fv*kv	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
25	Edx	0,0000
25	Pvdx*kh*kv	0,0000
25	Kv*PP	0,0000
25	Kh*PP	0,0000
25	Fhq_ka	0,0000
25	Fhq_k0	0,0000
26	Fvq	0,0000
26	Fv	0,0000
26	Fh_ka	0,0000
26	Fh_k0	0,0000
26	Fh_kd	0,0000
26	Fv*kv	0,0000
26	Edx	0,0000
26	Pvdx*kh*kv	0,0000
26	Kv*PP	0,0000
26	Kh*PP	0,0000
26	Fhq_ka	0,0000
26	Fhq_k0	0,0000
27	Fvq	0,0000
27	Fv	0,0000
27	Fh_ka	0,0000
27	Fh_k0	0,0000
27	Fh_kd	0,0000
27	Fv*kv	0,0000
27	Edx	0,0000
27	Pvdx*kh*kv	0,0000
27	Kv*PP	0,0000
27	Kh*PP	0,0000
27	Fhq_ka	0,0000
27	Fhq_k0	0,0000
28	Fvq	0,0000
28	Fv	0,0000
28	Fh_ka	0,0000
28	Fh_k0	0,0000
28	Fh_kd	0,0000
28	Fv*kv	0,0000
28	Edx	0,0000
28	Pvdx*kh*kv	0,0000
28	Kv*PP	0,0000
28	Kh*PP	0,0000
28	Fhq_ka	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
28	Fhq_k0	0,0000
29	Fvq	0,0000
29	Fv	0,0000
29	Fh_ka	0,0000
29	Fh_k0	0,0000
29	Fh_kd	0,0000
29	Fv*kv	0,0000
29	Edx	0,0000
29	Pvdx*kh*kv	0,0000
29	Kv*PP	0,0000
29	Kh*PP	0,0000
29	Fhq_ka	0,0000
29	Fhq_k0	0,0000
30	Fvq	0,0000
30	Fv	0,0000
30	Fh_ka	0,0000
30	Fh_k0	0,0000
30	Fh_kd	0,0000
30	Fv*kv	0,0000
30	Edx	0,0000
30	Pvdx*kh*kv	0,0000
30	Kv*PP	0,0000
30	Kh*PP	0,0000
30	Fhq_ka	0,0000
30	Fhq_k0	0,0000
31	Fvq	0,0000
31	Fv	0,0000
31	Fh_ka	0,0000
31	Fh_k0	0,0000
31	Fh_kd	0,0000
31	Fv*kv	0,0000
31	Edx	0,0000
31	Pvdx*kh*kv	0,0000
31	Kv*PP	0,0000
31	Kh*PP	0,0000
31	Fhq_ka	0,0000
31	Fhq_k0	0,0000
32	Fvq	0,0000
32	Fv	0,0000
32	Fh_ka	0,0000
32	Fh_ka	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
32	Fh_k0	0,0000
32	Fh_k0	0,0000
32	Fh_kd	0,0000
32	Fh_kd	0,0000
32	Fv*kv	0,0000
32	Esx	0,0000
32	Edx	0,0000
32	Pvdx*kh*kv	0,0000
32	Kv*PP	0,0000
32	Kh*PP	0,0000
32	Fhq_ka	0,0000
32	Fhq_ka	0,0000
32	Fhq_k0	0,0000
32	Fhq_k0	0,0000
1	Kv*PP	0,0000
1	Kh*PP	0,0000
2	Kv*PP	0,0000
2	Kh*PP	0,0000
3	Kv*PP	0,0000
3	Kh*PP	0,0000
4	Kv*PP	0,0000
4	Kh*PP	0,0000
5	Kv*PP	0,0000
5	Kh*PP	0,0000
6	Kv*PP	0,0000
6	Kh*PP	0,0000
7	Kv*PP	0,0000
7	Kh*PP	0,0000
8	Kv*PP	0,0000
8	Kh*PP	0,0000
9	Kv*PP	0,0000
9	Kh*PP	0,0000
10	Kv*PP	0,0000
10	Kh*PP	0,0000
62	Kv*PP	0,0000
62	Kh*PP	0,0000
61	Kv*PP	0,0000
61	Kh*PP	0,0000
1001	Fh_ka	0,0000
1001	Fh_k0	0,0000
1001	Fh_kd	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
1001	Esx	0,0000
1001	Pvsx*kh*kv	0,0000
1001	Kv*PP	0,0000
1001	Kh*PP	0,0000
1001	Fhq_ka	0,0000
1001	Fhq_k0	0,0000
53	Kv*PP	0,0000
53	Kh*PP	0,0000
52	Fh_ka	0,0000
52	Fh_k0	0,0000
52	Fh_kd	0,0000
52	Esx	0,0000
52	Pvsx*kh*kv	0,0000
52	Kv*PP	0,0000
52	Kh*PP	0,0000
52	Fhq_ka	0,0000
52	Fhq_k0	0,0000
48	Fvq	0,0000
48	Fv	0,0000
48	Fh_ka	0,0000
48	Fh_k0	0,0000
48	Fh_kd	0,0000
48	Fv*kv	0,0000
48	Esx	0,0000
48	Pvsx*kh*kv	0,0000
48	Kv*PP	0,0000
48	Kh*PP	0,0000
48	Fhq_ka	0,0000
48	Fhq_k0	0,0000
47	Fvq	0,0000
47	Fv	0,0000
47	Fh_ka	0,0000
47	Fh_k0	0,0000
47	Fh_kd	0,0000
47	Fv*kv	0,0000
47	Esx	0,0000
47	Pvsx*kh*kv	0,0000
47	Kv*PP	0,0000
47	Kh*PP	0,0000
47	Fhq_ka	0,0000
47	Fhq_k0	0,0000



Joint	LoadCase	M3
Text	Text	KN-m
46	Fvq	0,0000
46	Fv	0,0000
46	Fh_ka	0,0000
46	Fh_k0	0,0000
46	Fh_kd	0,0000
46	Fv*kv	0,0000
46	Esx	0,0000
46	Pvsx*kh*kv	0,0000
46	Kv*PP	0,0000
46	Kh*PP	0,0000
46	Fhq_ka	0,0000
46	Fhq_k0	0,0000
45	Fvq	0,0000
45	Fv	0,0000
45	Fh_ka	0,0000
45	Fh_k0	0,0000
45	Fh_kd	0,0000
45	Fv*kv	0,0000
45	Esx	0,0000
45	Pvsx*kh*kv	0,0000
45	Kv*PP	0,0000
45	Kh*PP	0,0000
45	Fhq_ka	0,0000
45	Fhq_k0	0,0000
44	Fvq	0,0000
44	Fv	0,0000
44	Fh_ka	0,0000
44	Fh_k0	0,0000
44	Fh_kd	0,0000
44	Fv*kv	0,0000
44	Esx	0,0000
44	Pvsx*kh*kv	0,0000
44	Kv*PP	0,0000
44	Kh*PP	0,0000
44	Fhq_ka	0,0000
44	Fhq_k0	0,0000
43	Fvq	0,0000
43	Fv	0,0000
43	Fh_ka	0,0000
43	Fh_k0	0,0000
43	Fh_kd	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
43	Fv*kv	0,0000
43	Esx	0,0000
43	Pvsx*kh*kv	0,0000
43	Kv*PP	0,0000
43	Kh*PP	0,0000
43	Fhq_ka	0,0000
43	Fhq_k0	0,0000
42	Fvq	0,0000
42	Fv	0,0000
42	Fh_ka	0,0000
42	Fh_k0	0,0000
42	Fh_kd	0,0000
42	Fv*kv	0,0000
42	Esx	0,0000
42	Pvsx*kh*kv	0,0000
42	Kv*PP	0,0000
42	Kh*PP	0,0000
42	Fhq_ka	0,0000
42	Fhq_k0	0,0000
41	Fvq	0,0000
41	Fv	0,0000
41	Fh_ka	0,0000
41	Fh_k0	0,0000
41	Fh_kd	0,0000
41	Fv*kv	0,0000
41	Esx	0,0000
41	Pvsx*kh*kv	0,0000
41	Kv*PP	0,0000
41	Kh*PP	0,0000
41	Fhq_ka	0,0000
41	Fhq_k0	0,0000
40	Fvq	0,0000
40	Fv	0,0000
40	Fh_ka	0,0000
40	Fh_k0	0,0000
40	Fh_kd	0,0000
40	Fv*kv	0,0000
40	Esx	0,0000
40	Pvsx*kh*kv	0,0000
40	Kv*PP	0,0000
40	Kh*PP	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
40	Fhq_ka	0,0000
40	Fhq_k0	0,0000
39	Fvq	0,0000
39	Fv	0,0000
39	Fh_ka	0,0000
39	Fh_k0	0,0000
39	Fh_kd	0,0000
39	Fv*kv	0,0000
39	Esx	0,0000
39	Pvsx*kh*kv	0,0000
39	Kv*PP	0,0000
39	Kh*PP	0,0000
39	Fhq_ka	0,0000
39	Fhq_k0	0,0000
38	Fvq	0,0000
38	Fv	0,0000
38	Fh_ka	0,0000
38	Fh_k0	0,0000
38	Fh_kd	0,0000
38	Fv*kv	0,0000
38	Esx	0,0000
38	Pvsx*kh*kv	0,0000
38	Kv*PP	0,0000
38	Kh*PP	0,0000
38	Fhq_ka	0,0000
38	Fhq_k0	0,0000
37	Fvq	0,0000
37	Fv	0,0000
37	Fh_ka	0,0000
37	Fh_k0	0,0000
37	Fh_kd	0,0000
37	Fv*kv	0,0000
37	Esx	0,0000
37	Pvsx*kh*kv	0,0000
37	Kv*PP	0,0000
37	Kh*PP	0,0000
37	Fhq_ka	0,0000
37	Fhq_k0	0,0000
36	Fvq	0,0000
36	Fv	0,0000
36	Fh_ka	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
36	Fh_k0	0,0000
36	Fh_kd	0,0000
36	Fv*kv	0,0000
36	Esx	0,0000
36	Pvsx*kh*kv	0,0000
36	Kv*PP	0,0000
36	Kh*PP	0,0000
36	Fhq_ka	0,0000
36	Fhq_k0	0,0000
35	Fvq	0,0000
35	Fv	0,0000
35	Fh_ka	0,0000
35	Fh_k0	0,0000
35	Fh_kd	0,0000
35	Fv*kv	0,0000
35	Esx	0,0000
35	Pvsx*kh*kv	0,0000
35	Kv*PP	0,0000
35	Kh*PP	0,0000
35	Fhq_ka	0,0000
35	Fhq_k0	0,0000
34	Fvq	0,0000
34	Fv	0,0000
34	Fh_ka	0,0000
34	Fh_k0	0,0000
34	Fh_kd	0,0000
34	Fv*kv	0,0000
34	Esx	0,0000
34	Pvsx*kh*kv	0,0000
34	Kv*PP	0,0000
34	Kh*PP	0,0000
34	Fhq_ka	0,0000
34	Fhq_k0	0,0000
33	Fvq	0,0000
33	Fv	0,0000
33	Fh_ka	0,0000
33	Fh_k0	0,0000
33	Fh_kd	0,0000
33	Fv*kv	0,0000
33	Esx	0,0000
33	Pvsx*kh*kv	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
33	Kv*PP	0,0000
33	Kh*PP	0,0000
33	Fhq_ka	0,0000
33	Fhq_k0	0,0000
60	Kv*PP	0,0000
60	Kh*PP	0,0000
59	Kv*PP	0,0000
59	Kh*PP	0,0000
58	Kv*PP	0,0000
58	Kh*PP	0,0000
57	Kv*PP	0,0000
57	Kh*PP	0,0000
56	Kv*PP	0,0000
56	Kh*PP	0,0000
55	Kv*PP	0,0000
55	Kh*PP	0,0000
54	Kv*PP	0,0000
54	Kh*PP	0,0000
15	Fh_ka	0,0000
15	Fh_k0	0,0000
15	Fh_kd	0,0000
15	Edx	0,0000
15	Pvdx*kh*kv	0,0000
15	Kv*PP	0,0000
15	Kh*PP	0,0000
15	Fhq_ka	0,0000
15	Fhq_k0	0,0000
14	Fh_ka	0,0000
14	Fh_k0	0,0000
14	Fh_kd	0,0000
14	Edx	0,0000
14	Pvdx*kh*kv	0,0000
14	Kv*PP	0,0000
14	Kh*PP	0,0000
14	Fhq_ka	0,0000
14	Fhq_k0	0,0000
13	Fh_ka	0,0000
13	Fh_k0	0,0000
13	Fh_kd	0,0000
13	Edx	0,0000
13	Pvdx*kh*kv	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
13	Kv*PP	0,0000
13	Kh*PP	0,0000
13	Fhq_ka	0,0000
13	Fhq_k0	0,0000
50	Fh_ka	0,0000
50	Fh_k0	0,0000
50	Fh_kd	0,0000
50	Esx	0,0000
50	Pvsx*kh*kv	0,0000
50	Kv*PP	0,0000
50	Kh*PP	0,0000
50	Fhq_ka	0,0000
50	Fhq_k0	0,0000
51	Fh_ka	0,0000
51	Fh_k0	0,0000
51	Fh_kd	0,0000
51	Esx	0,0000
51	Pvsx*kh*kv	0,0000
51	Kv*PP	0,0000
51	Kh*PP	0,0000
51	Fhq_ka	0,0000
51	Fhq_k0	0,0000
49	Fh_ka	0,0000
49	Fh_k0	0,0000
49	Fh_kd	0,0000
49	Esx	0,0000
49	Pvsx*kh*kv	0,0000
49	Kv*PP	0,0000
49	Kh*PP	0,0000
49	Fhq_ka	0,0000
49	Fhq_k0	0,0000
1002	Fh_ka	0,0000
1002	Fh_k0	0,0000
1002	Fh_kd	0,0000
1002	Edx	0,0000
1002	Pvdx*kh*kv	0,0000
1002	Kv*PP	0,0000
1002	Kh*PP	0,0000
1002	Fhq_ka	0,0000
1002	Fhq_k0	0,0000

**Table: Joint Spring Assignments 1 - Uncoupled**

Joint	CoordSys	U1	U2	U3	R1	R2	R3
Text	Text	KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
11	Local	0,00	0,00	37118,12	0,0000	0,0000	0,0000
12	Local	92363,80	0,00	0,00	0,0000	0,0000	0,0000
32	Local	157,00	0,00	0,00	0,0000	0,0000	0,0000
1	Local	0,00	0,00	3394,99	0,0000	0,0000	0,0000
2	Local	0,00	0,00	3815,43	0,0000	0,0000	0,0000
3	Local	0,00	0,00	4225,64	0,0000	0,0000	0,0000
4	Local	0,00	0,00	4199,56	0,0000	0,0000	0,0000
5	Local	0,00	0,00	4162,23	0,0000	0,0000	0,0000
6	Local	0,00	0,00	4113,73	0,0000	0,0000	0,0000
7	Local	0,00	0,00	4054,26	0,0000	0,0000	0,0000
8	Local	0,00	0,00	3983,93	0,0000	0,0000	0,0000
9	Local	0,00	0,00	3902,89	0,0000	0,0000	0,0000
10	Local	0,00	0,00	3811,42	0,0000	0,0000	0,0000
62	Local	0,00	0,00	3815,43	0,0000	0,0000	0,0000
61	Local	0,00	0,00	4225,64	0,0000	0,0000	0,0000
1001	Local	58577,90	0,00	0,00	0,0000	0,0000	0,0000
1001	Local	0,00	0,00	26702,37	0,0000	0,0000	0,0000
53	Local	0,00	0,00	37118,12	0,0000	0,0000	0,0000
52	Local	92363,80	0,00	0,00	0,0000	0,0000	0,0000
48	Local	3368,70	0,00	0,00	0,0000	0,0000	0,0000
47	Local	3315,50	0,00	0,00	0,0000	0,0000	0,0000
46	Local	3235,50	0,00	0,00	0,0000	0,0000	0,0000
45	Local	3125,60	0,00	0,00	0,0000	0,0000	0,0000
44	Local	2986,70	0,00	0,00	0,0000	0,0000	0,0000
43	Local	2820,10	0,00	0,00	0,0000	0,0000	0,0000
42	Local	2627,30	0,00	0,00	0,0000	0,0000	0,0000
41	Local	2410,10	0,00	0,00	0,0000	0,0000	0,0000
40	Local	2170,60	0,00	0,00	0,0000	0,0000	0,0000
39	Local	1910,90	0,00	0,00	0,0000	0,0000	0,0000
38	Local	1687,20	0,00	0,00	0,0000	0,0000	0,0000
37	Local	1485,60	0,00	0,00	0,0000	0,0000	0,0000
36	Local	1226,80	0,00	0,00	0,0000	0,0000	0,0000
35	Local	929,40	0,00	0,00	0,0000	0,0000	0,0000
34	Local	624,10	0,00	0,00	0,0000	0,0000	0,0000
33	Local	313,40	0,00	0,00	0,0000	0,0000	0,0000
60	Local	0,00	0,00	4199,56	0,0000	0,0000	0,0000

Joint	CoordSys	U1	U2	U3	R1	R2	R3
Text	Text	KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
59	Local	0,00	0,00	4162,23	0,0000	0,0000	0,0000
58	Local	0,00	0,00	4113,73	0,0000	0,0000	0,0000
57	Local	0,00	0,00	4054,26	0,0000	0,0000	0,0000
56	Local	0,00	0,00	3983,93	0,0000	0,0000	0,0000
55	Local	0,00	0,00	3902,89	0,0000	0,0000	0,0000
54	Local	0,00	0,00	3811,42	0,0000	0,0000	0,0000
15	Local	67653,60	0,00	0,00	0,0000	0,0000	0,0000
14	Local	67839,20	0,00	0,00	0,0000	0,0000	0,0000
13	Local	68015,50	0,00	0,00	0,0000	0,0000	0,0000
50	Local	67839,20	0,00	0,00	0,0000	0,0000	0,0000
51	Local	68015,50	0,00	0,00	0,0000	0,0000	0,0000
49	Local	67653,60	0,00	0,00	0,0000	0,0000	0,0000
1002	Local	0,00	0,00	26702,37	0,0000	0,0000	0,0000
1002	Local	58577,90	0,00	0,00	0,0000	0,0000	0,0000

**Table: Load Case Definitions**

LoadCase	DesignType	SelfWtMult	AutoLoad
Text	Text	Unitless	Text
DEAD	DEAD	1,000000	
Fv	DEAD	0,000000	
Fvq	DEAD	0,000000	
Fh_ka	DEAD	0,000000	
Fh_k0	DEAD	0,000000	
Fh_kd	DEAD	0,000000	
Fv*kv	DEAD	0,000000	
Esx	DEAD	0,000000	
Edx	DEAD	0,000000	
Pvsx*kh*kv	DEAD	0,000000	
Pvdx*kh*kv	DEAD	0,000000	
Kv*PP	DEAD	0,000000	
Kh*PP	DEAD	0,000000	
Fhq_ka	DEAD	0,000000	
Fhq_k0	DEAD	0,000000	



**Table: Program Control, Part 1 of 3**

<b>ProgramName</b>	<b>Version</b>	<b>ProgLevel</b>	<b>LicenseOS</b>	<b>LicenseSC</b>	<b>LicenseBR</b>	<b>LicenseHT</b>
Text	Text	Text	Yes/No	Yes/No	Yes/No	Yes/No
SAP2000	9.1.9	Basic	No	No	No	No

**Table: Program Control, Part 2 of 3**

<b>CurrUnits</b>	<b>SteelCode</b>	<b>ConcCode</b>	<b>AlumCode</b>
Text	Text	Text	Text
KN, m, C	AISC-LRFD93	ACI 318-02	AA-ASD 2000

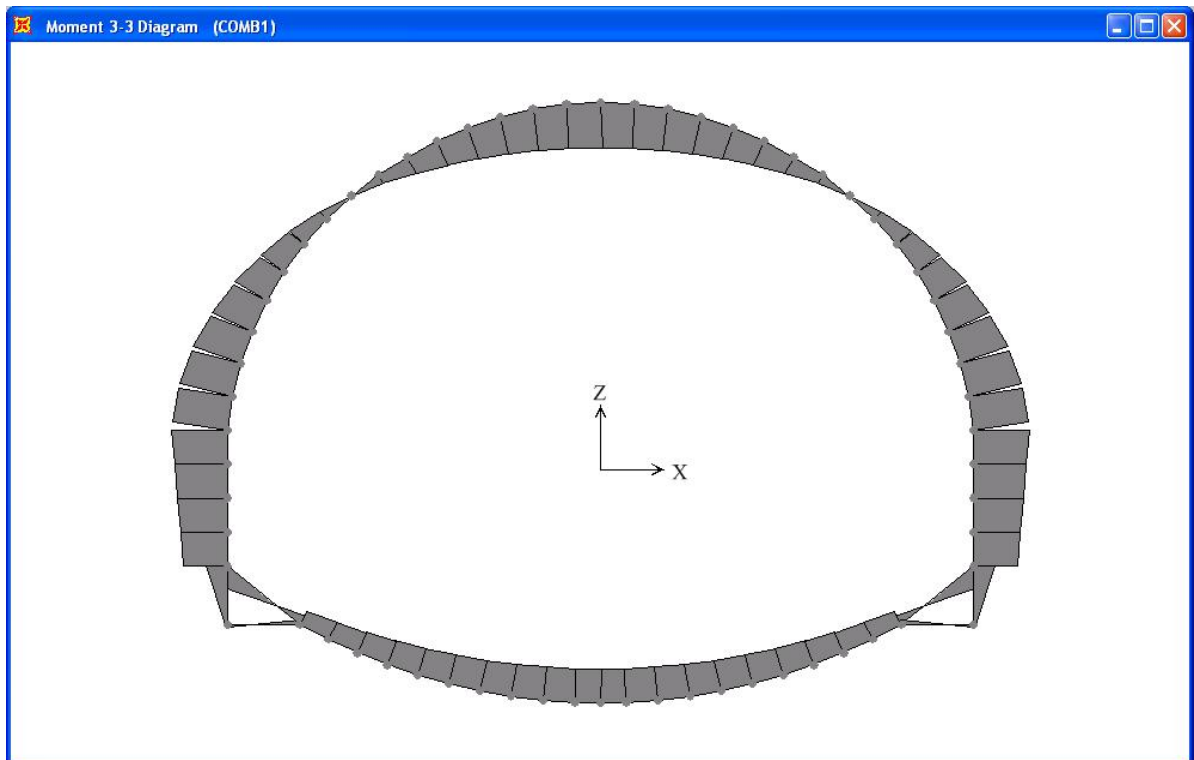
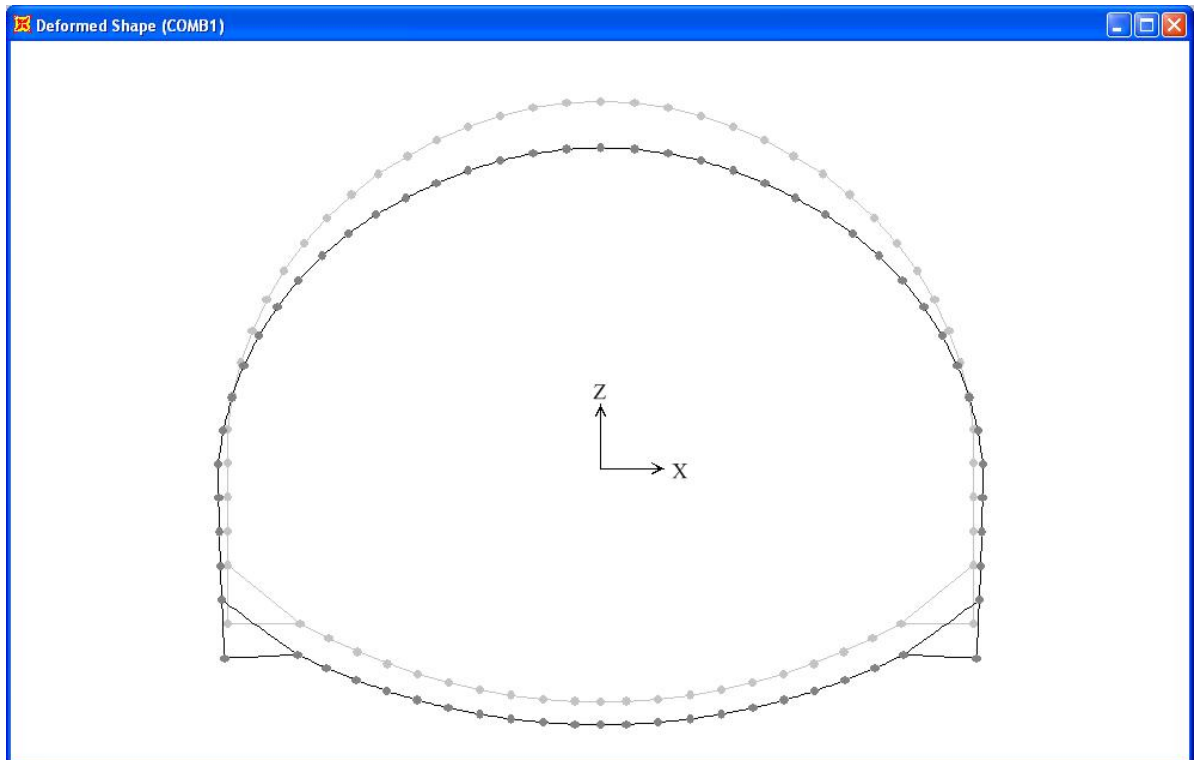
**Table: Program Control, Part 3 of 3**

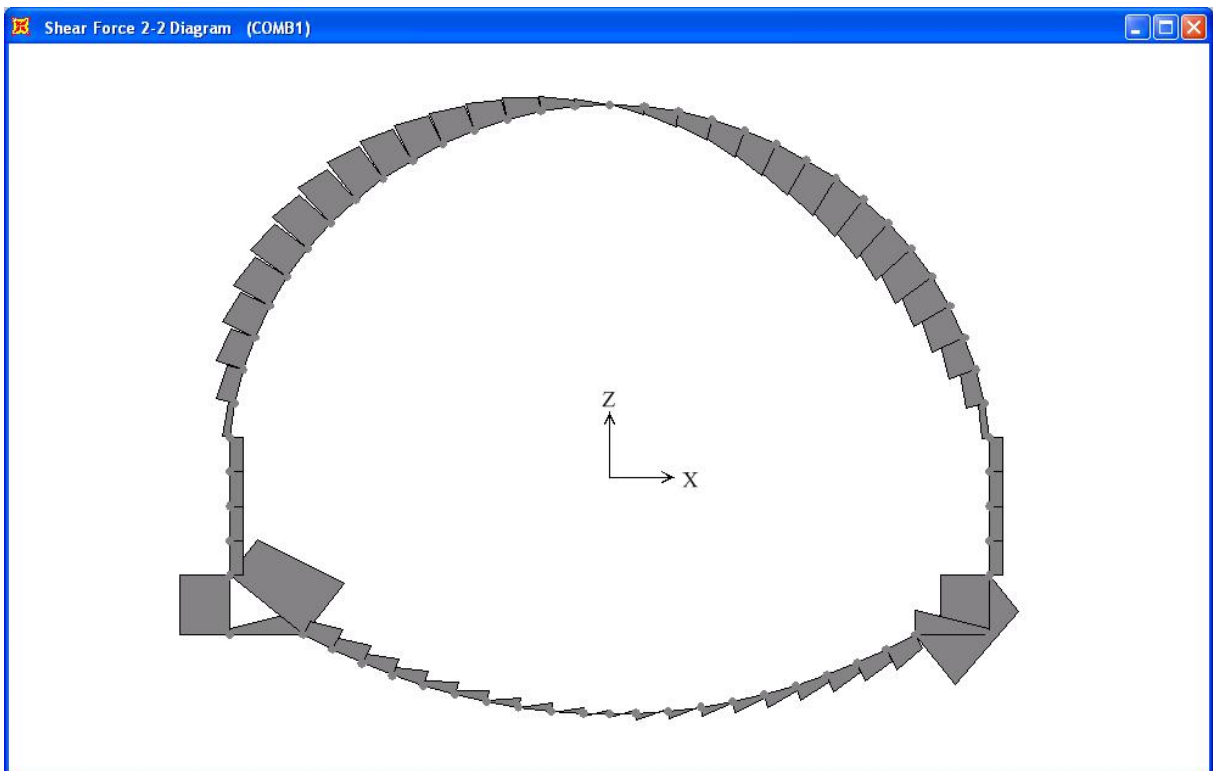
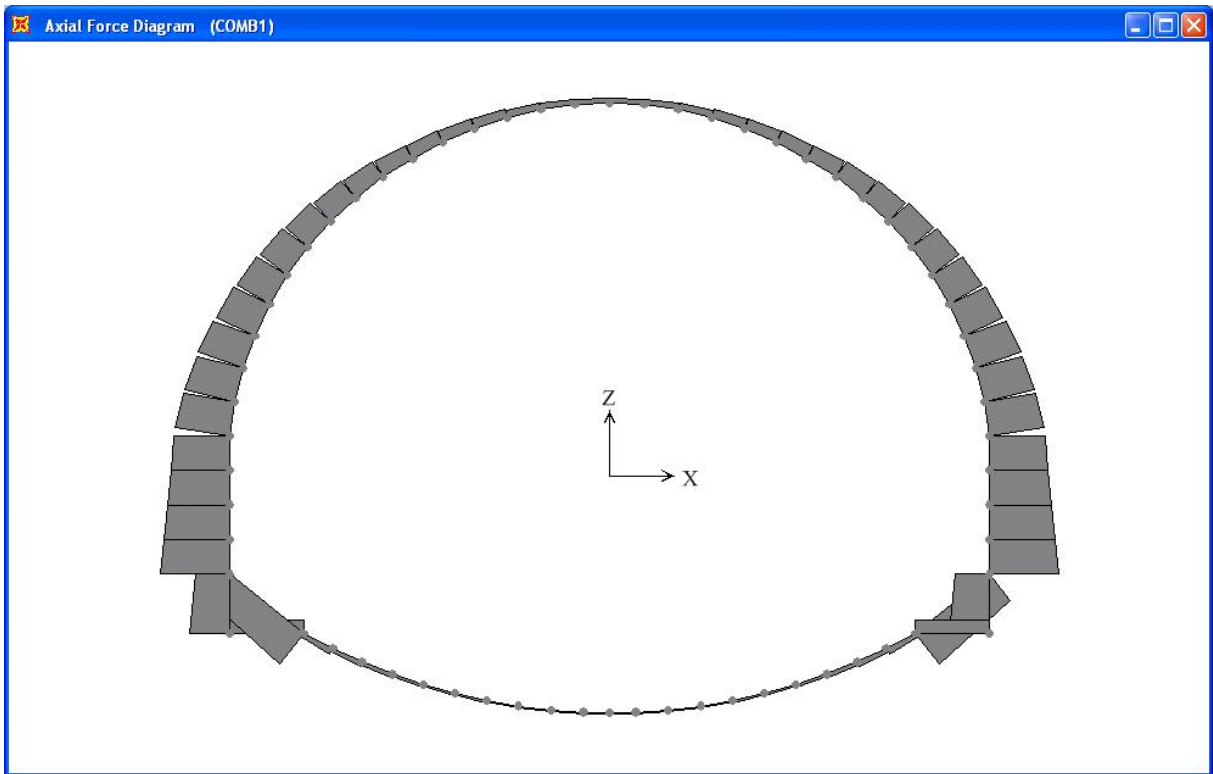
<b>ColdCode</b>
Text
AISI-ASD96

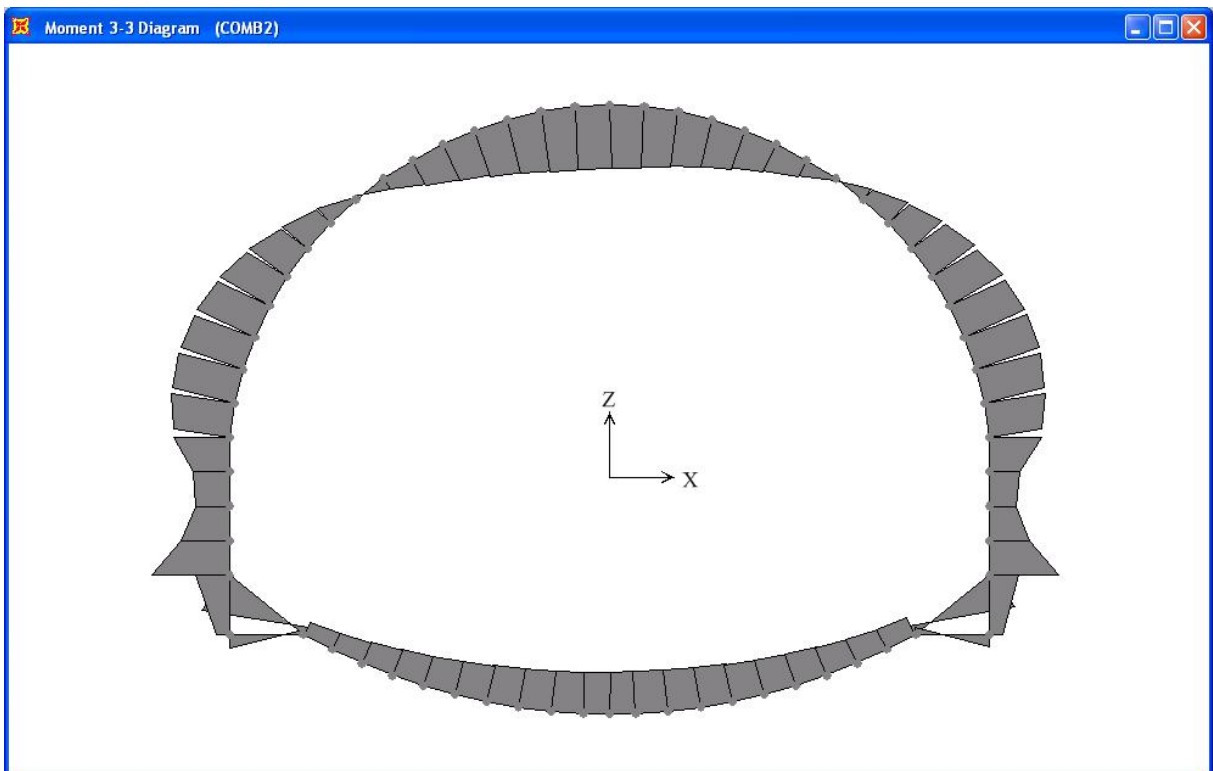
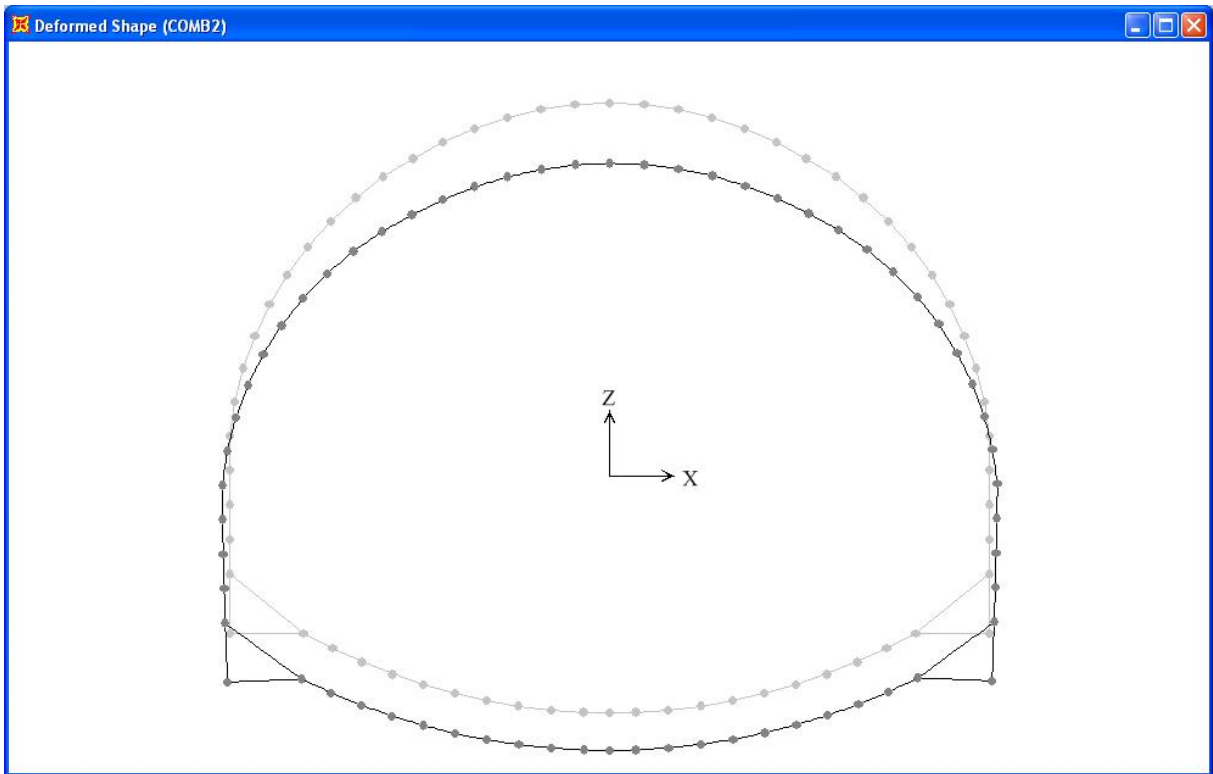
## **Allegato 3**

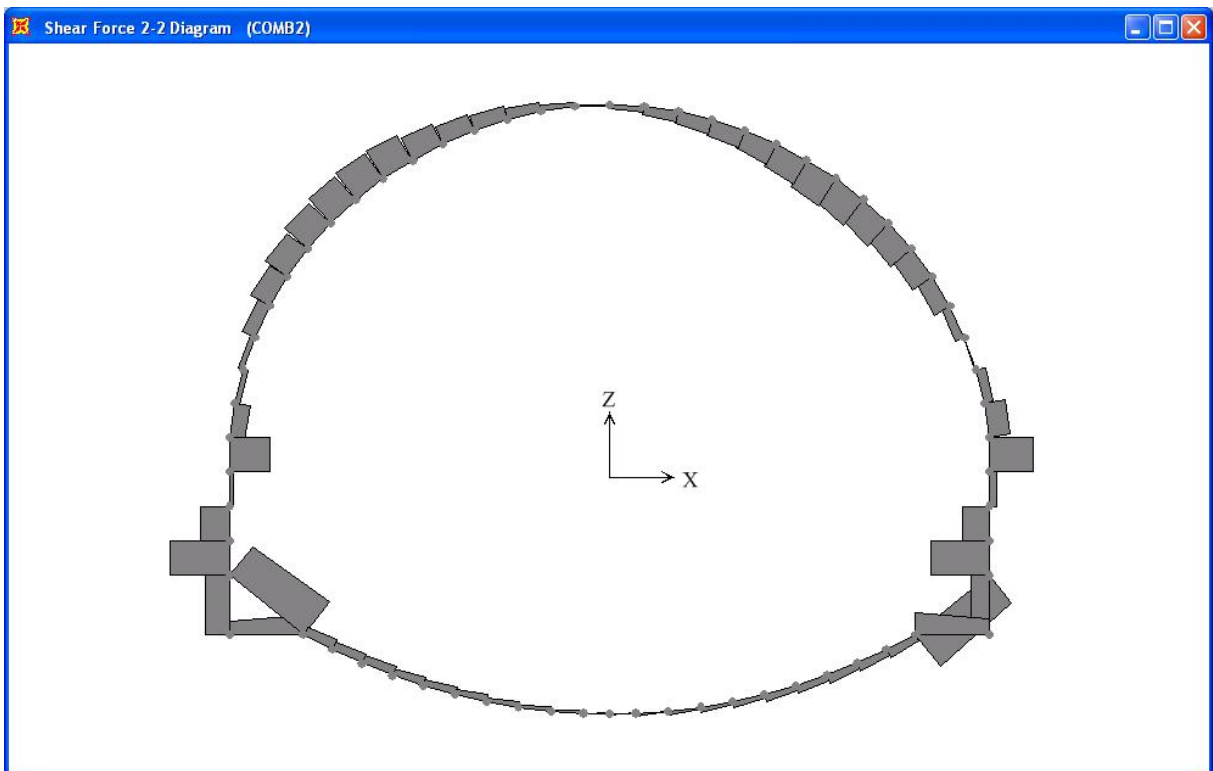
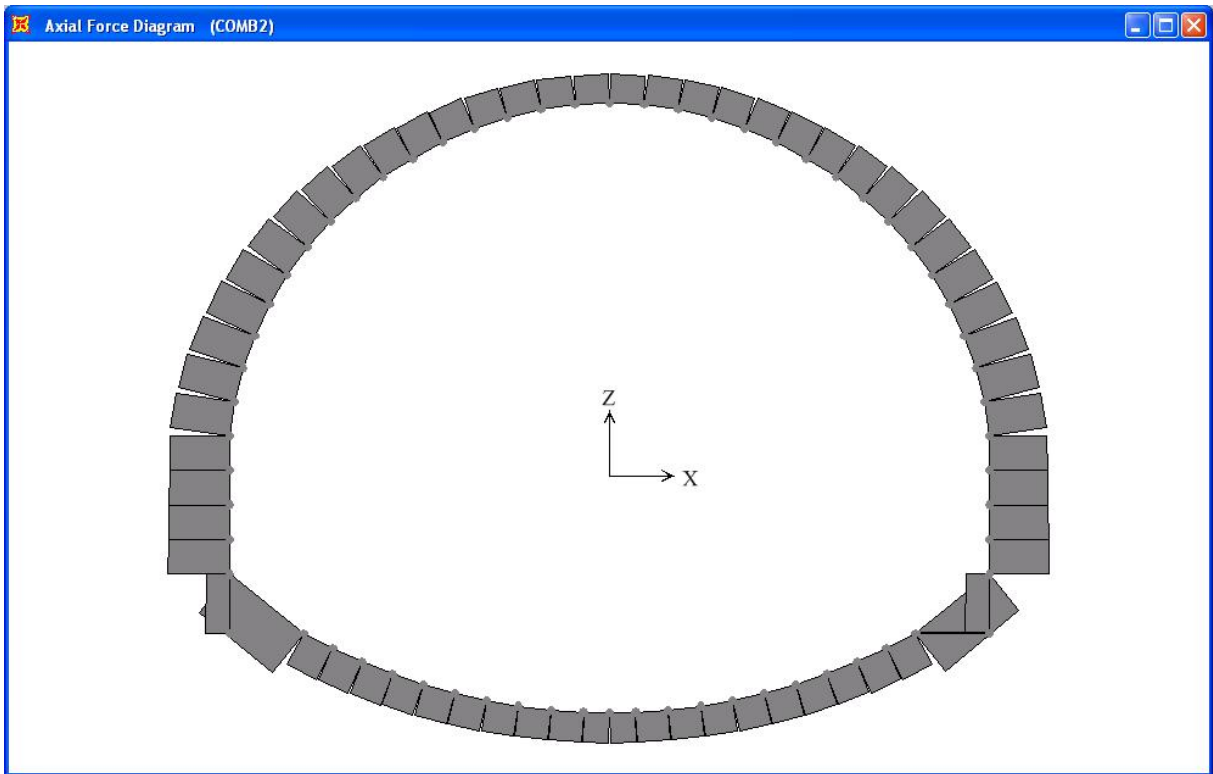
### **Galleria artificiale – CALCOLO I**

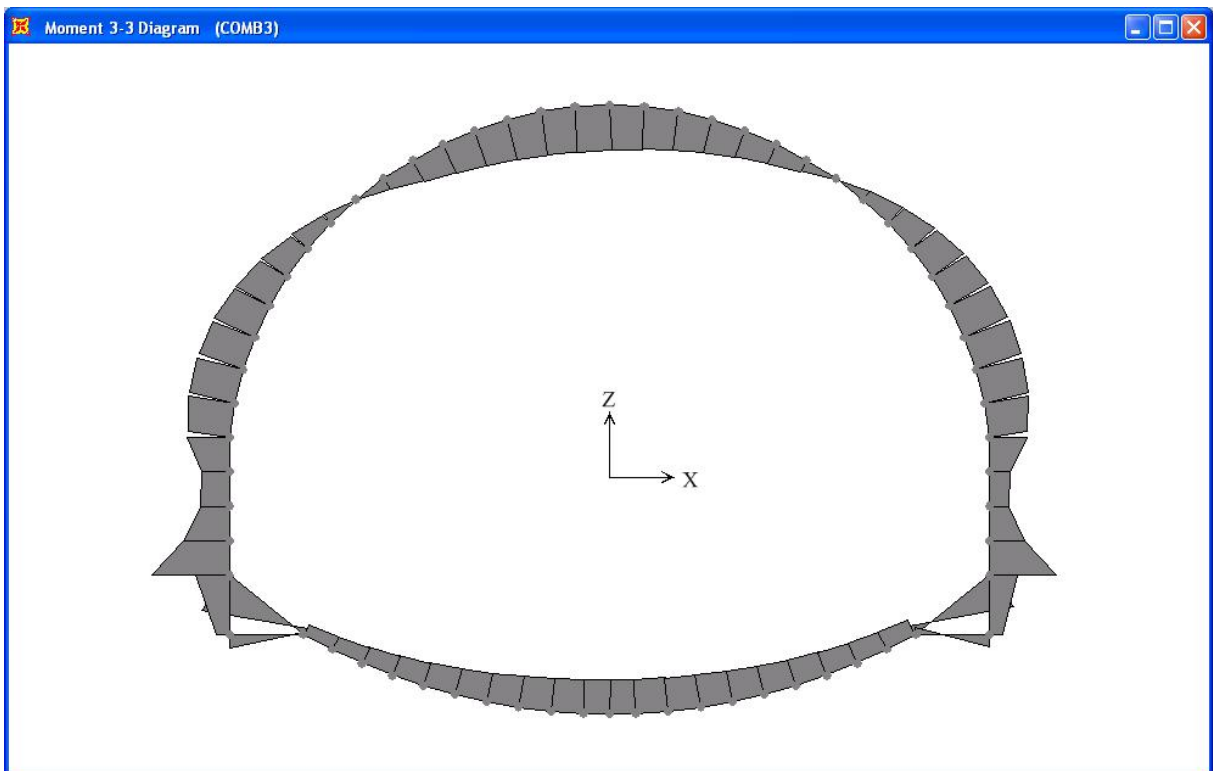
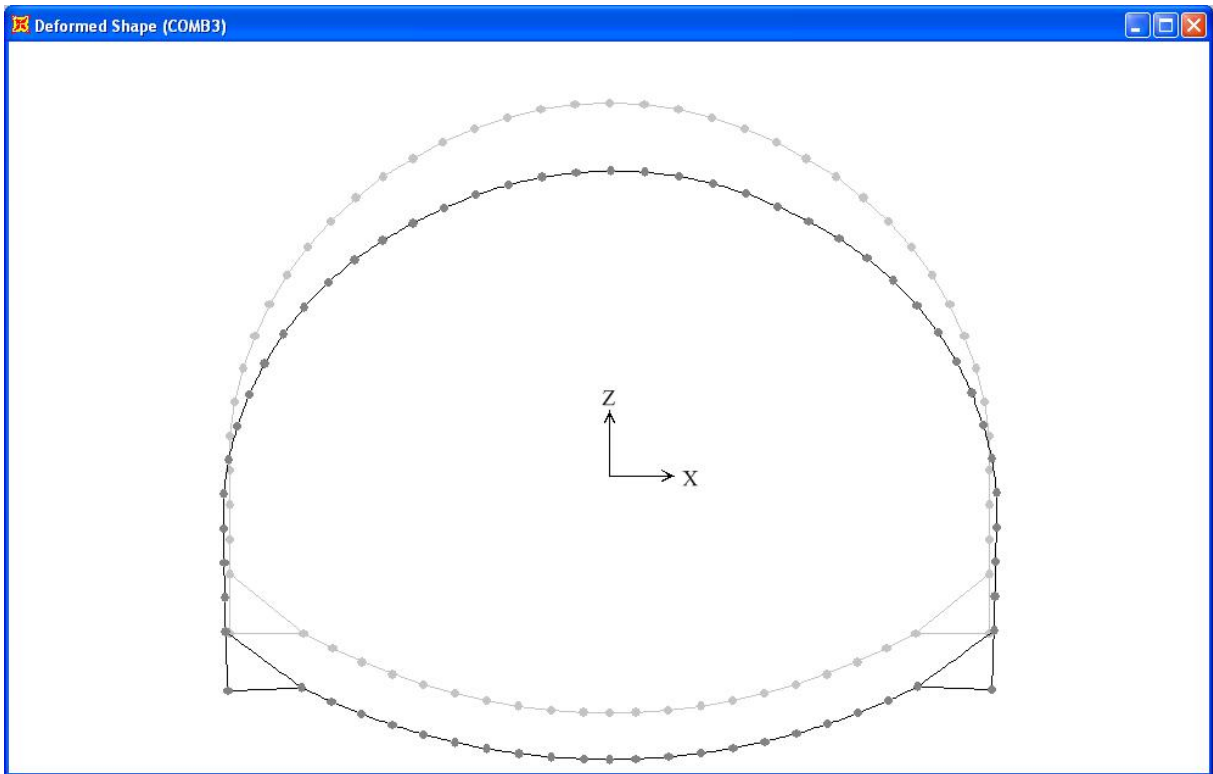
#### **Output grafici**

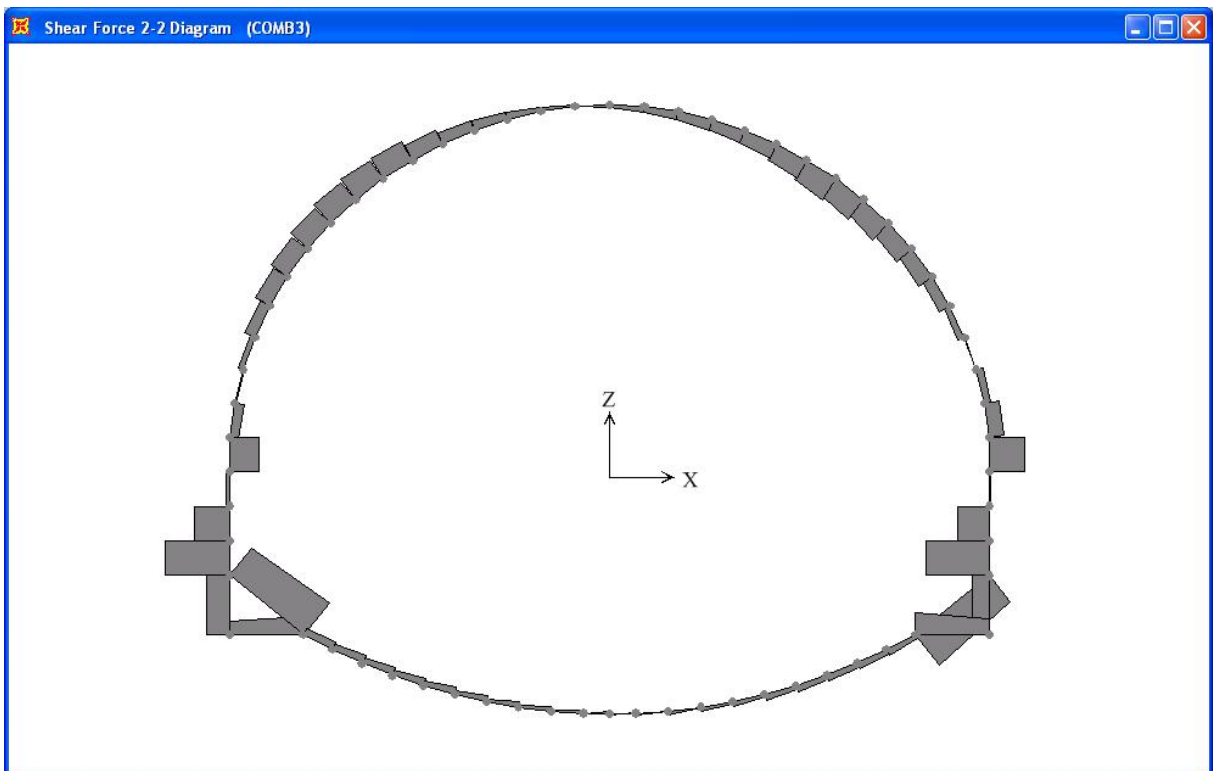
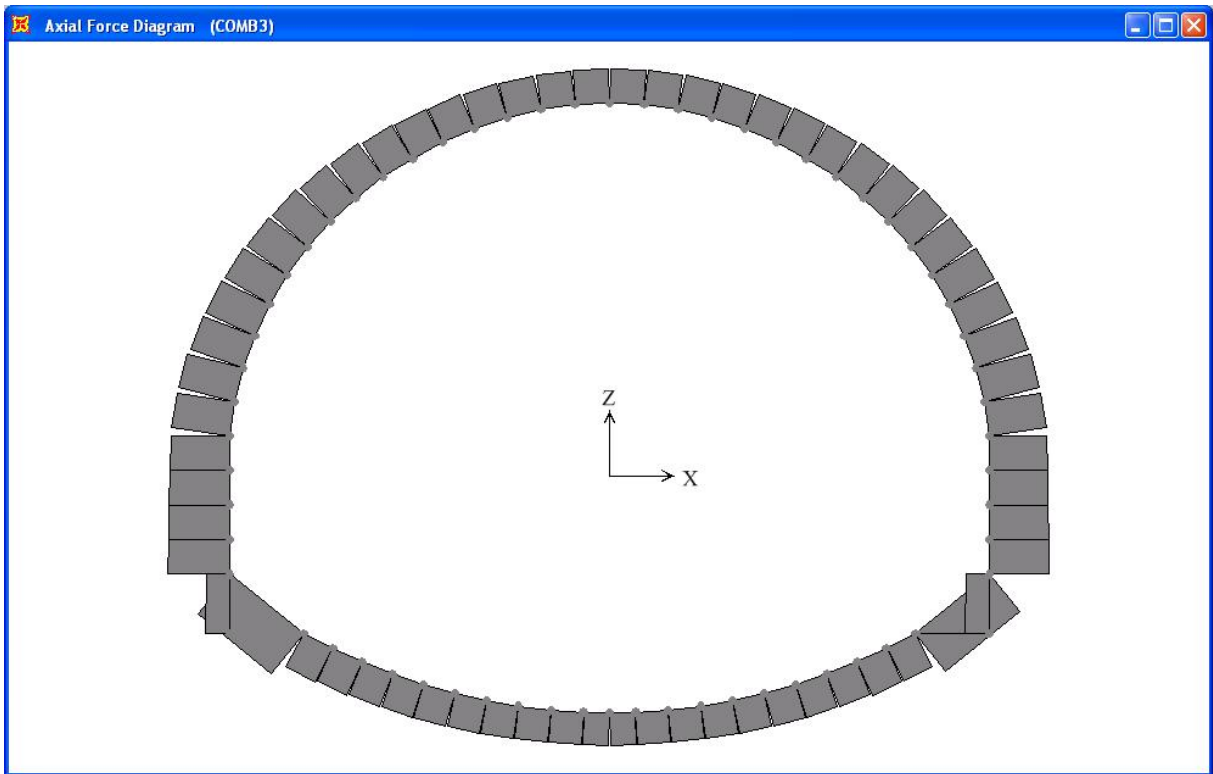




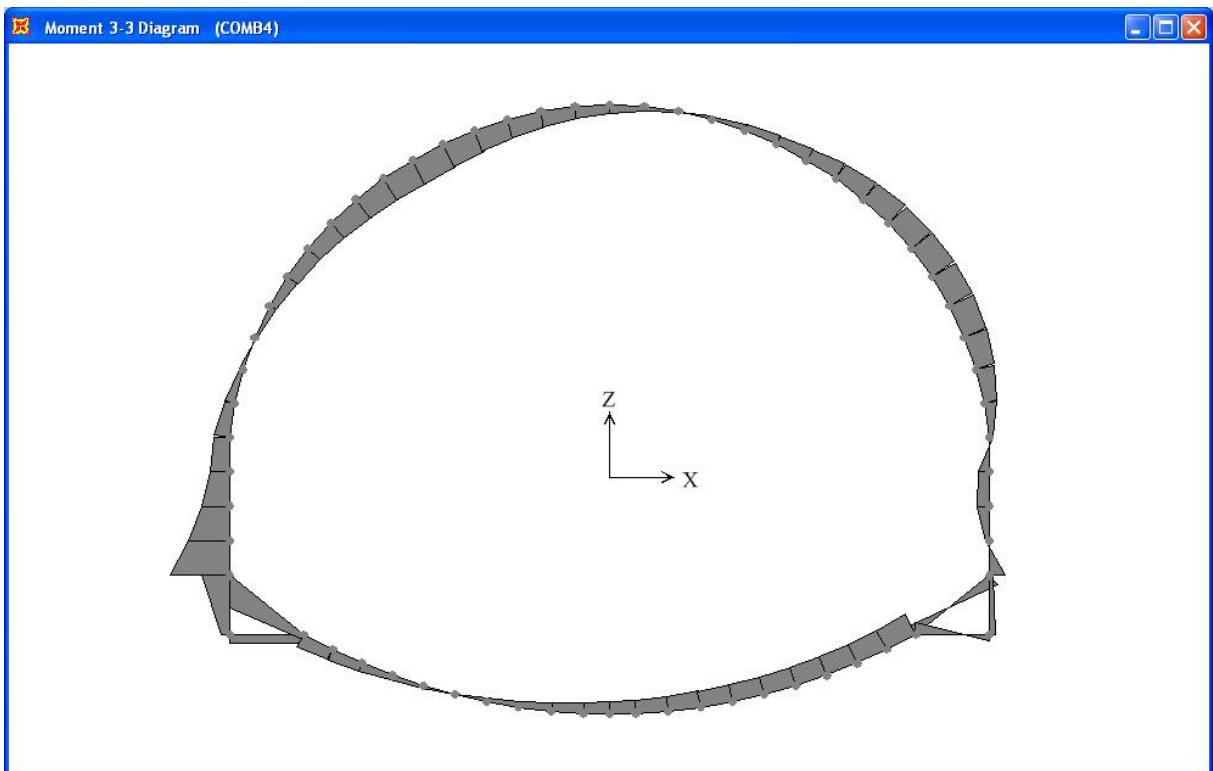
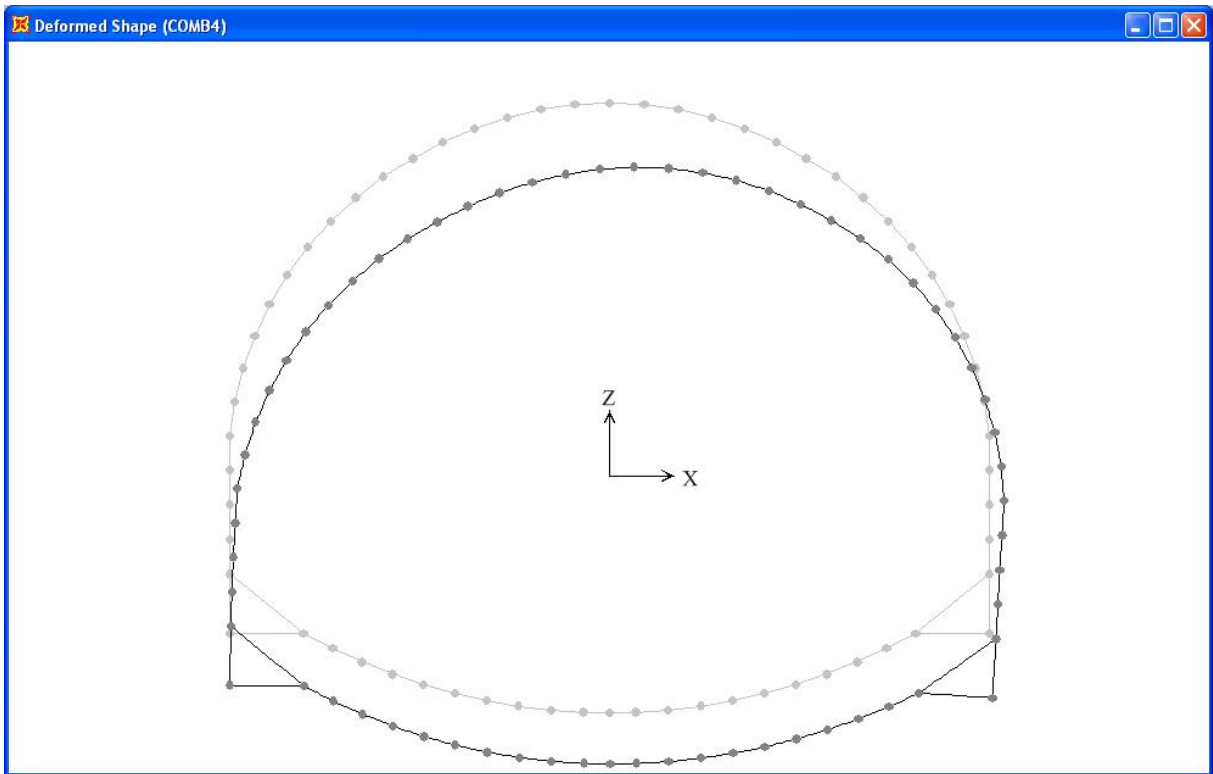


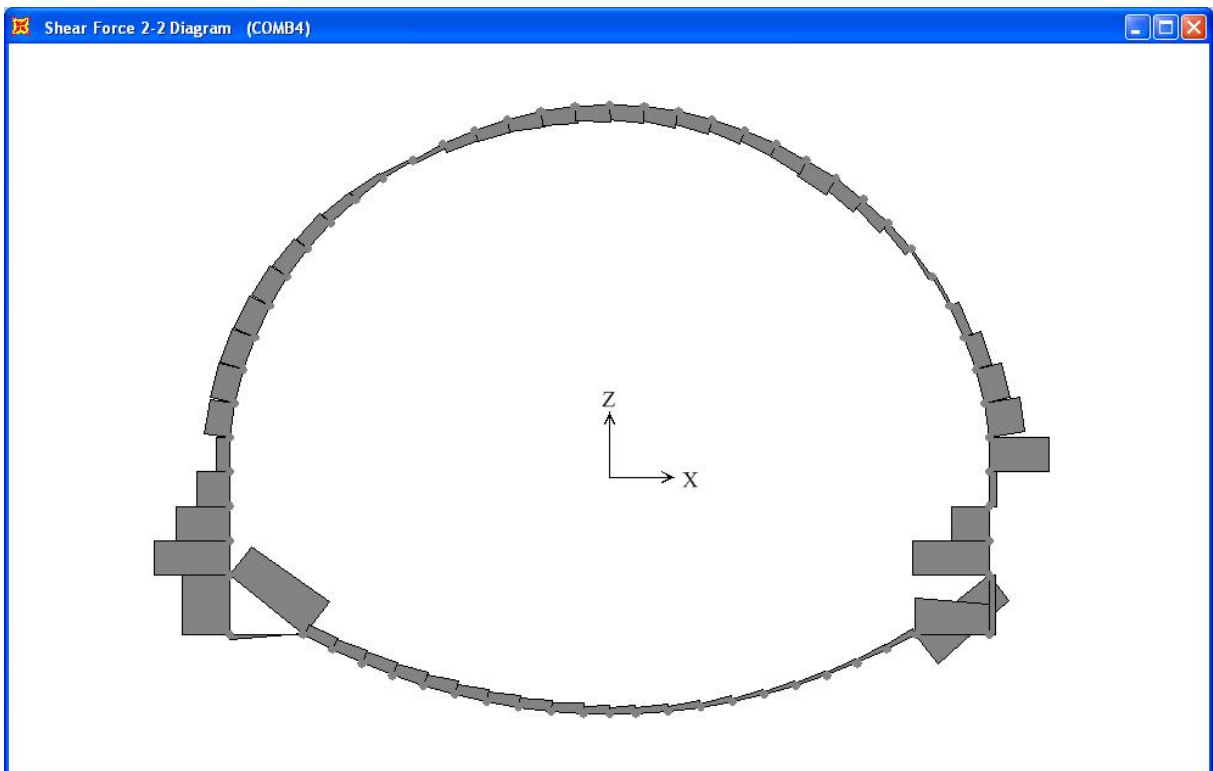
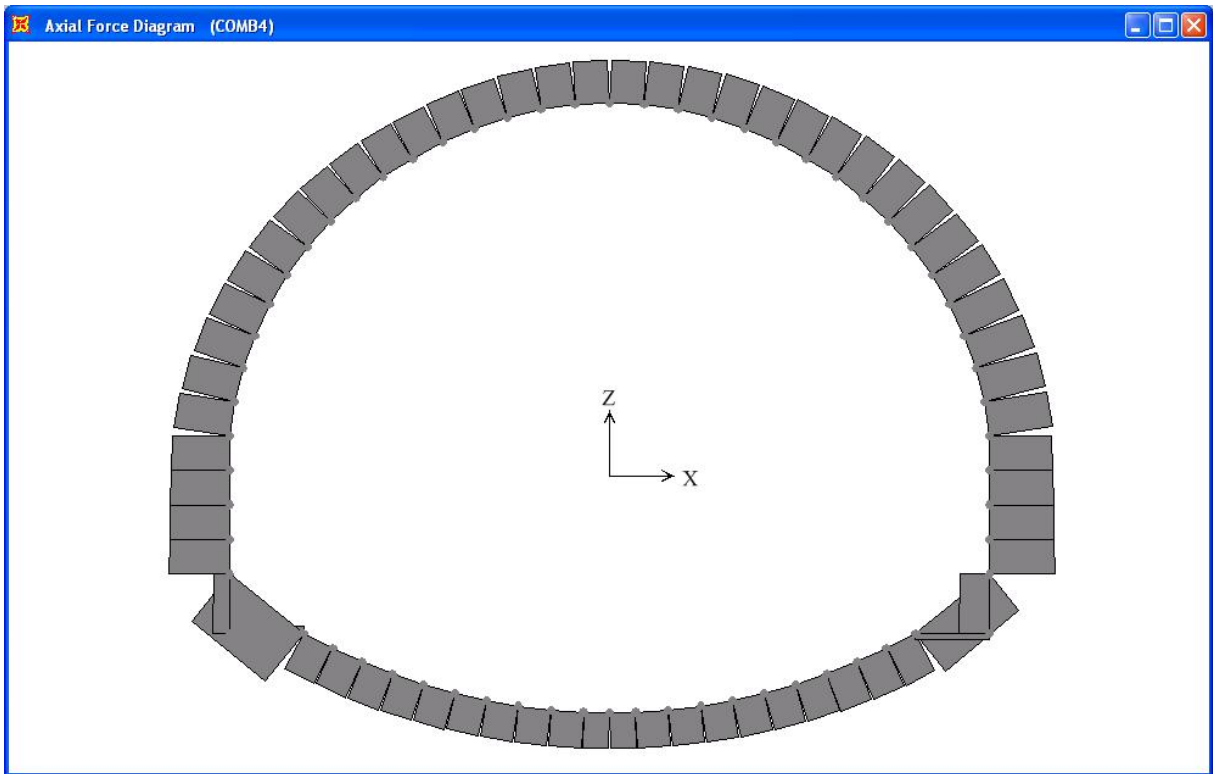


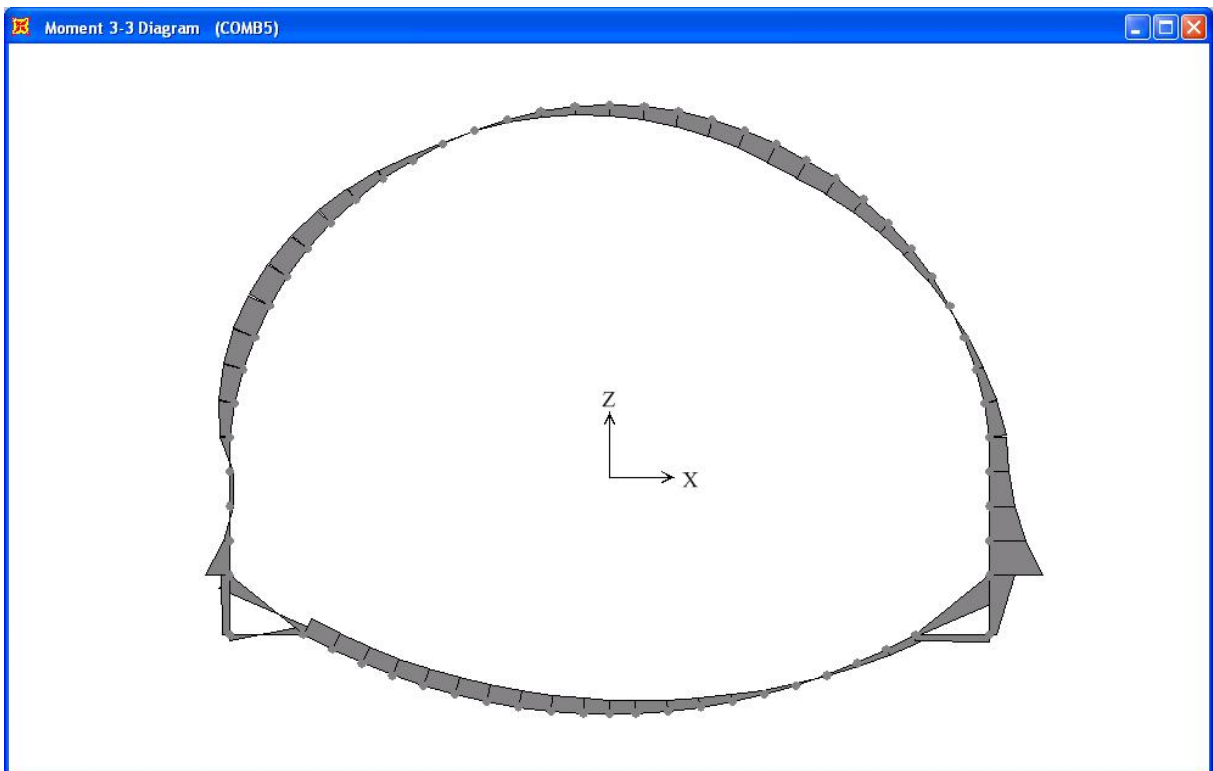
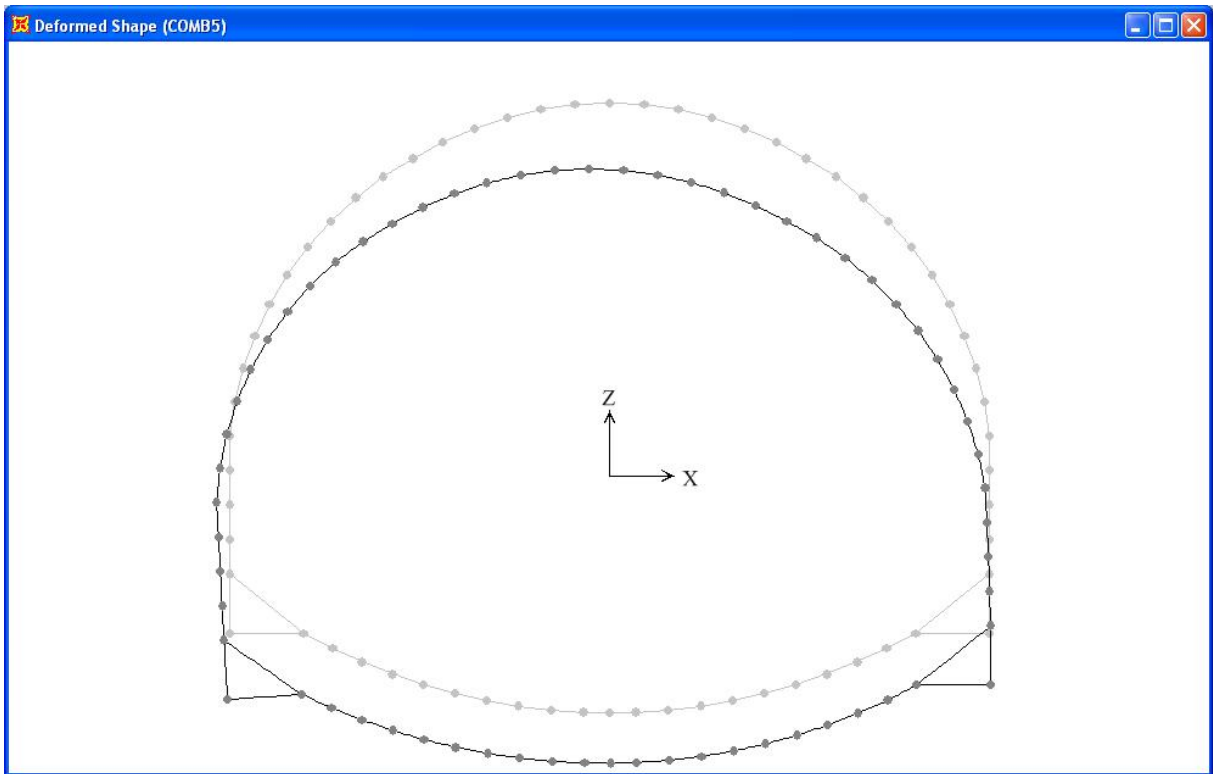


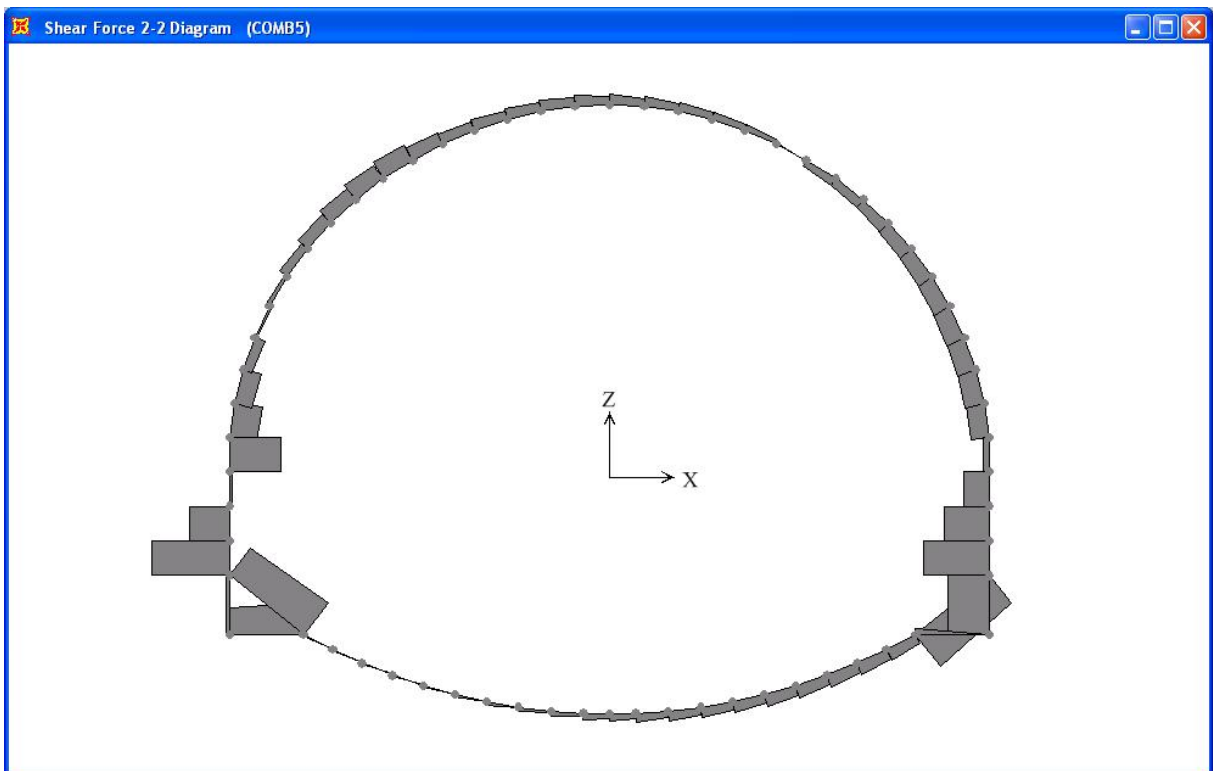
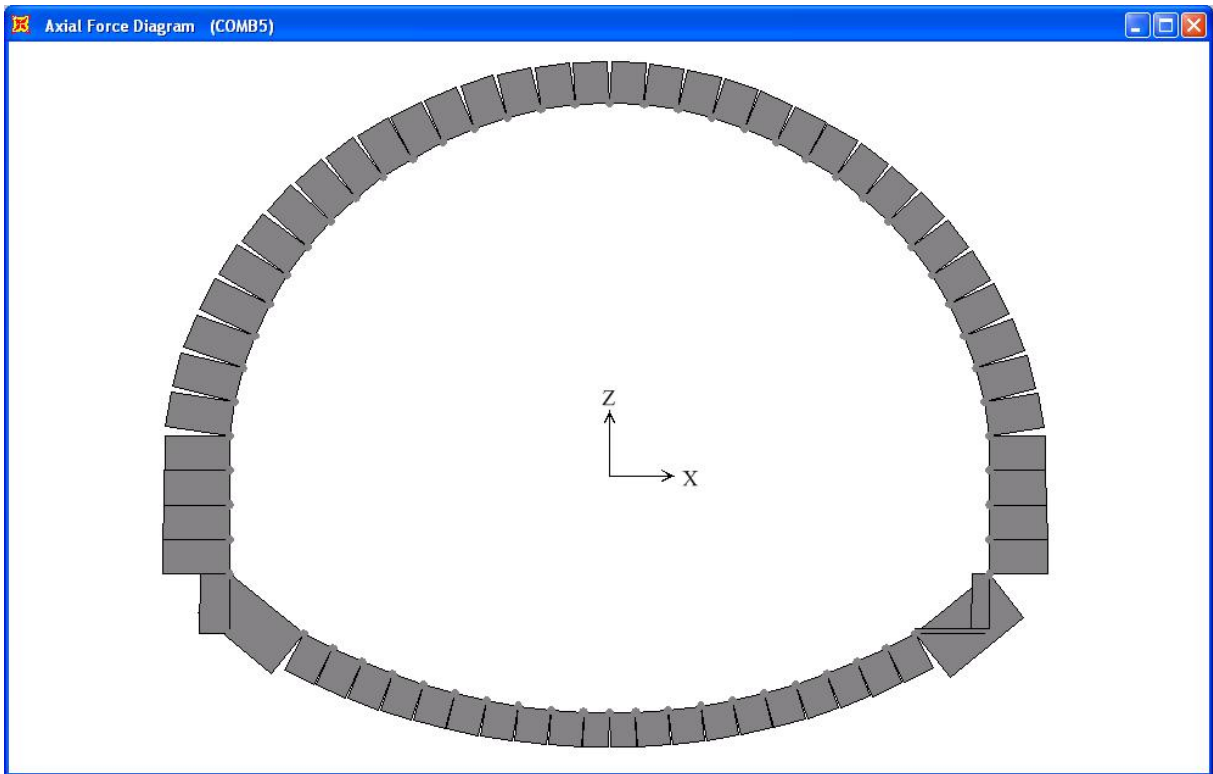


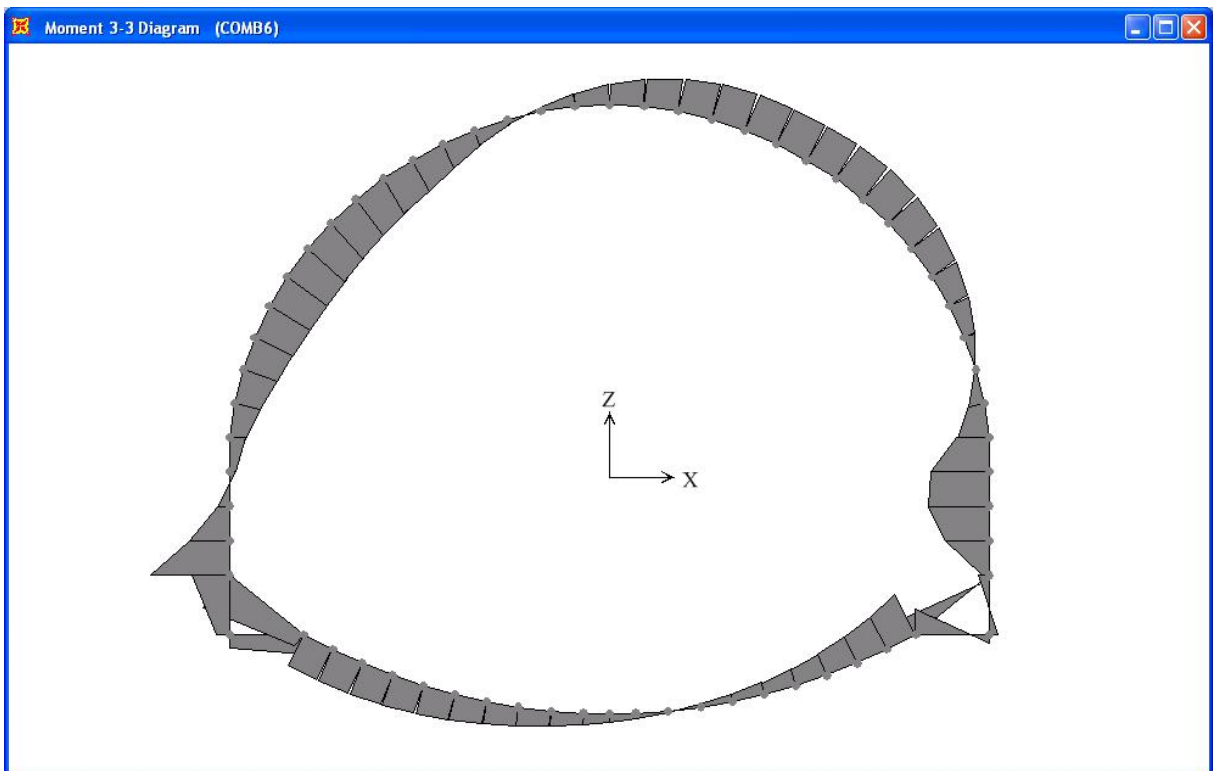
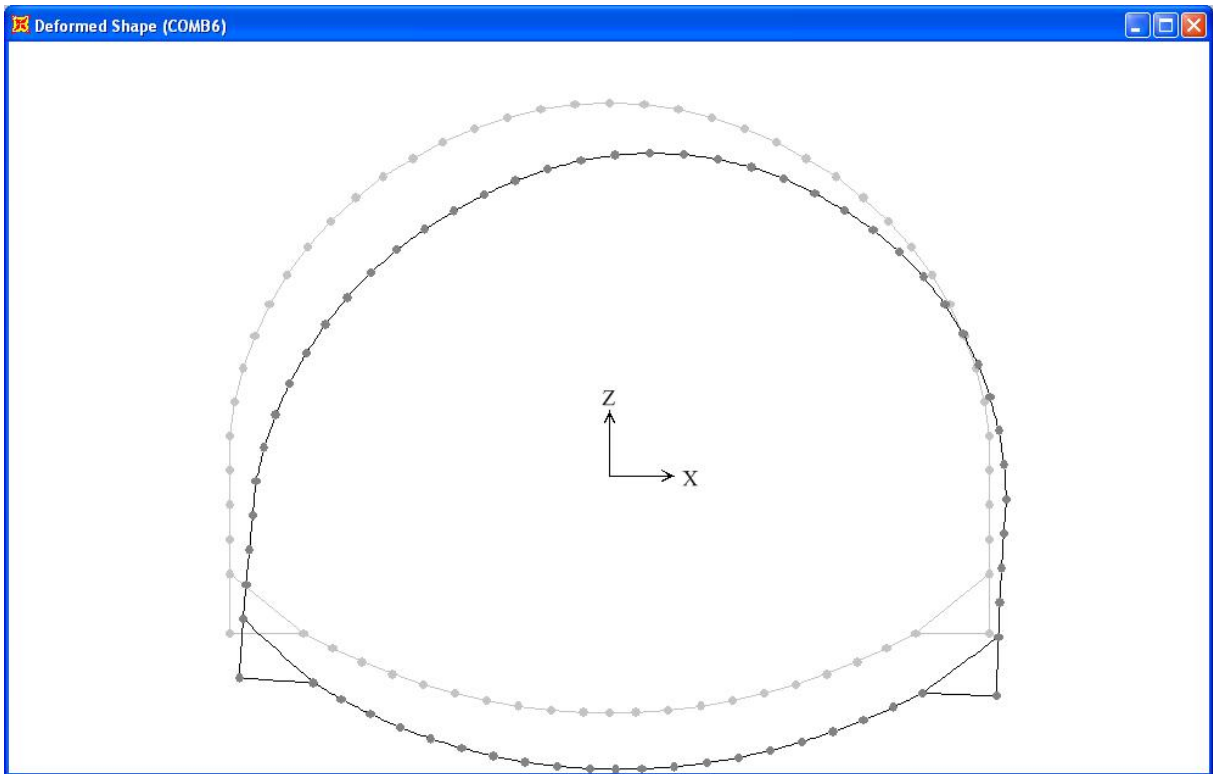


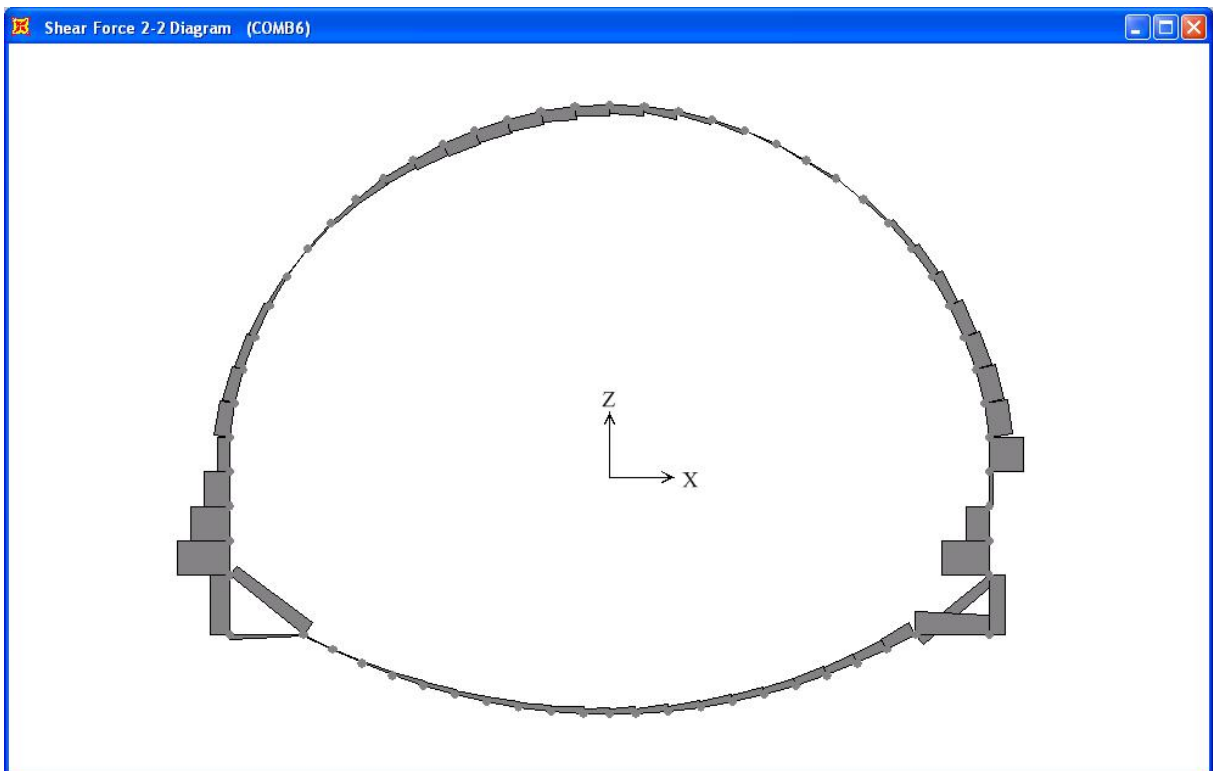
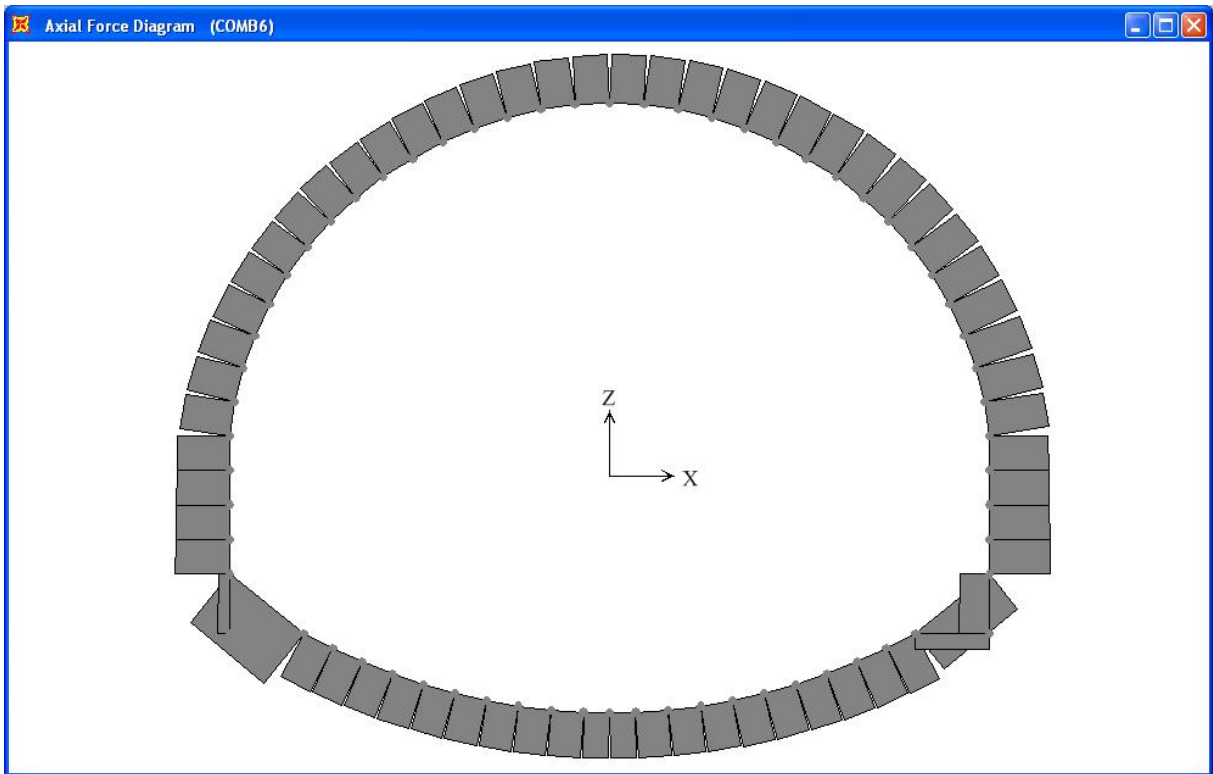


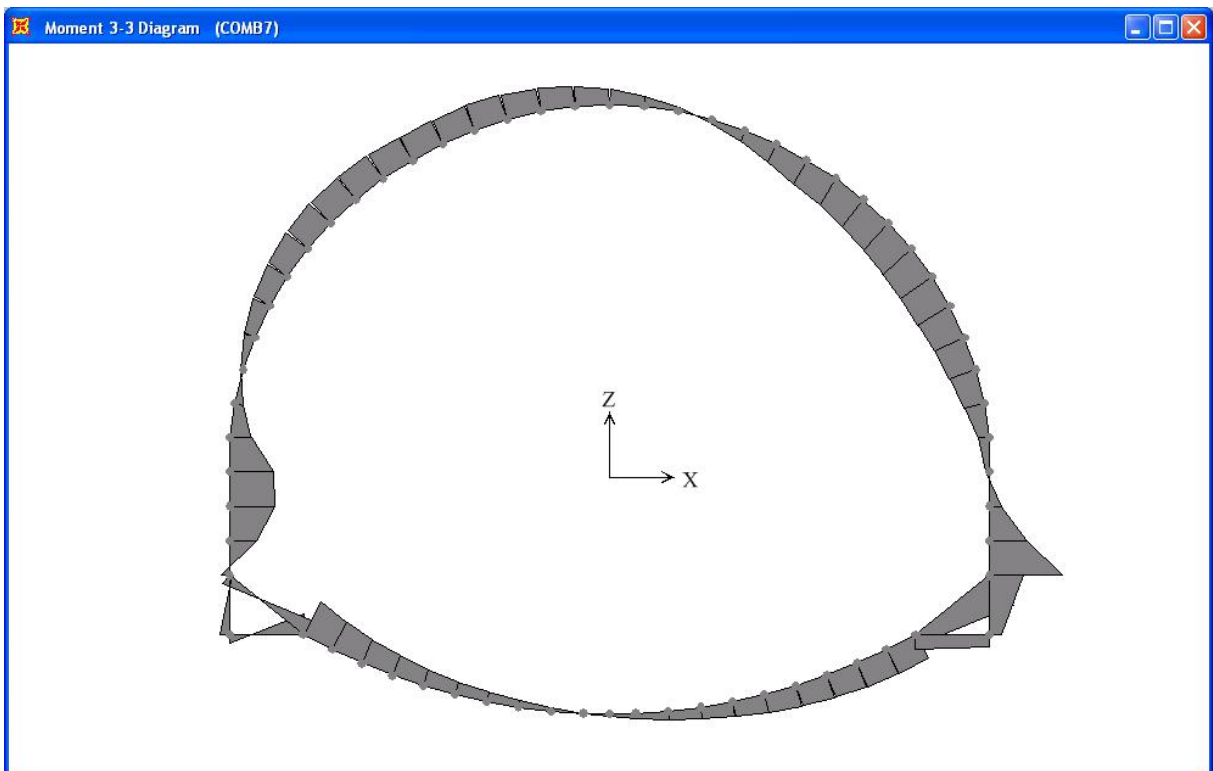
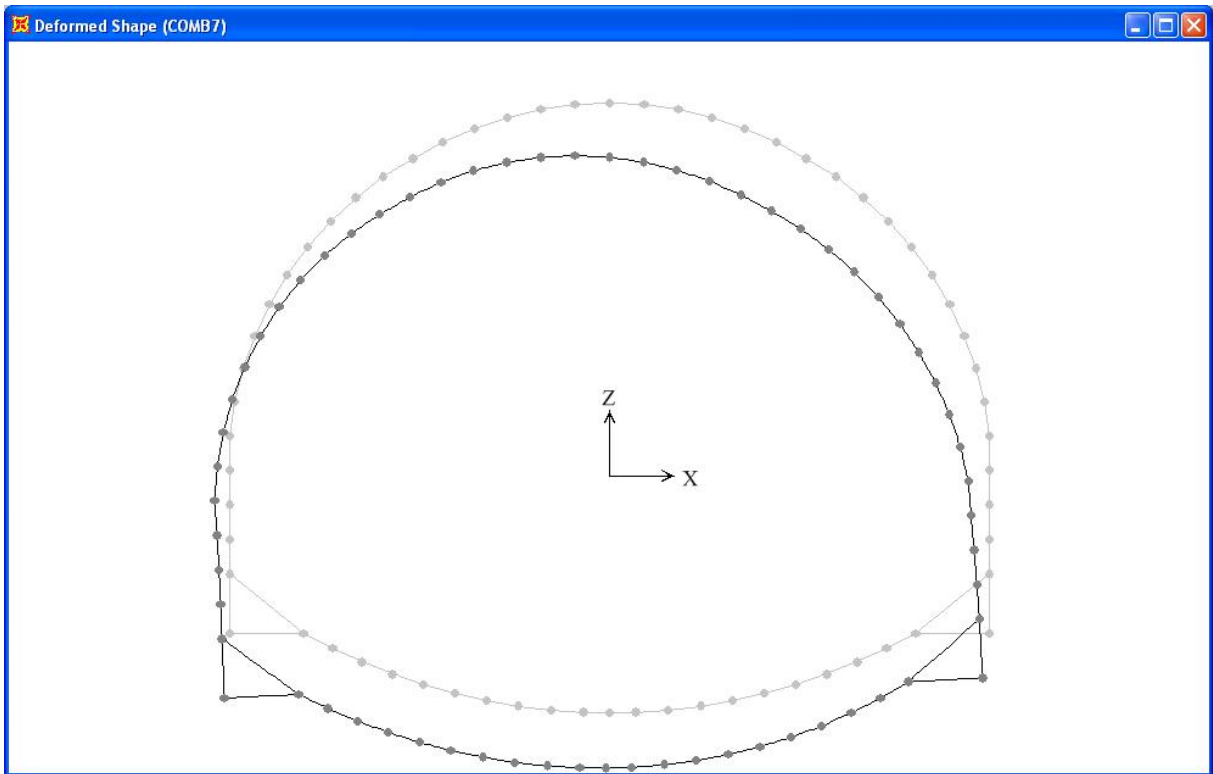


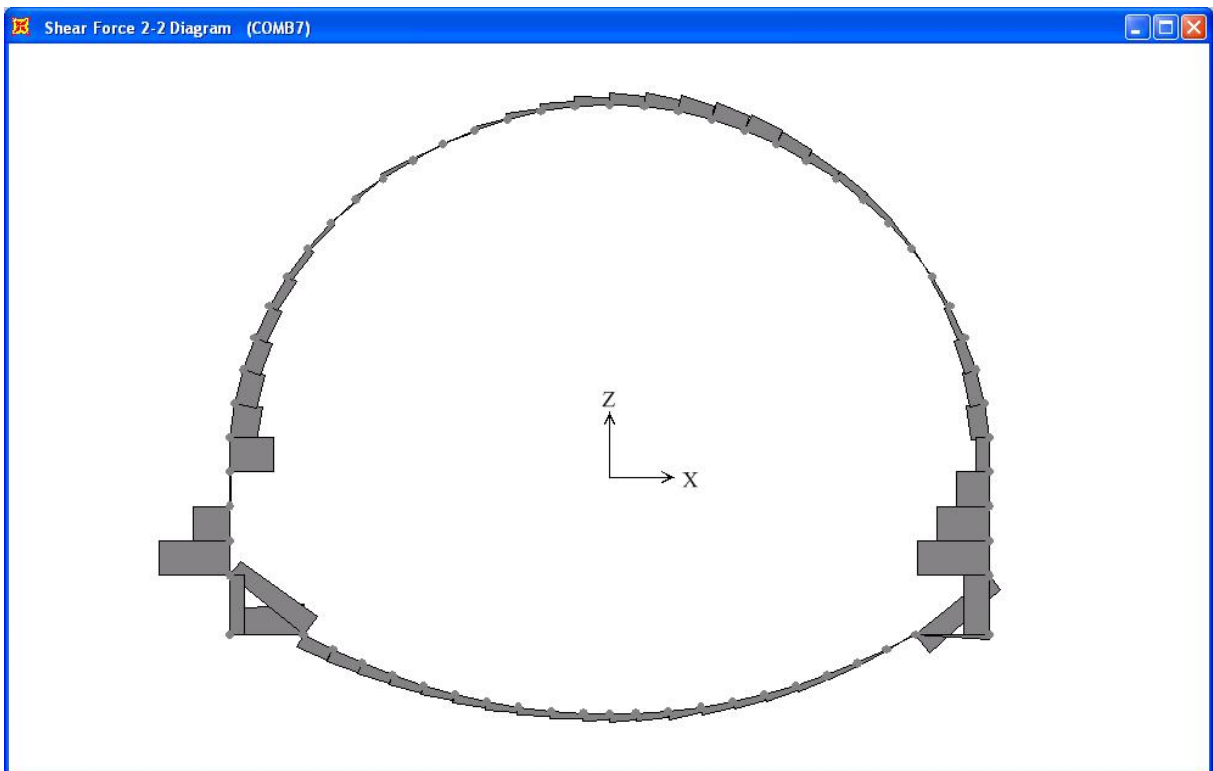
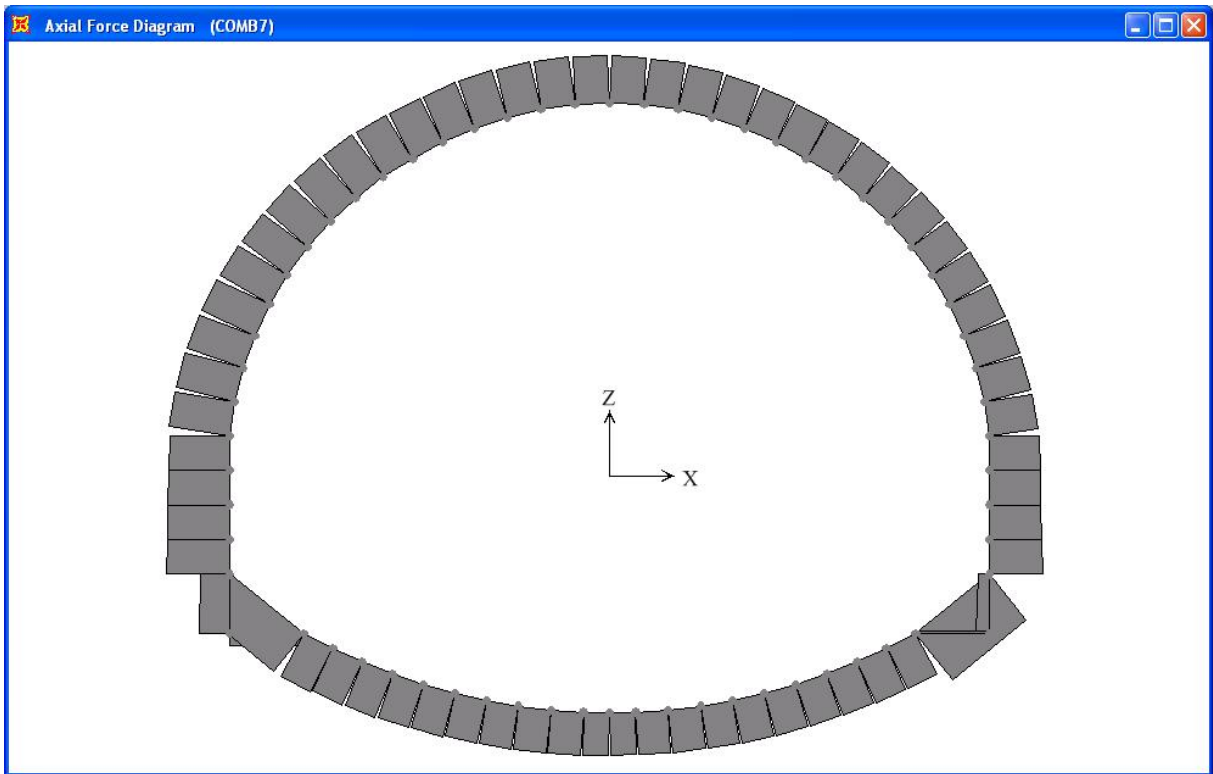










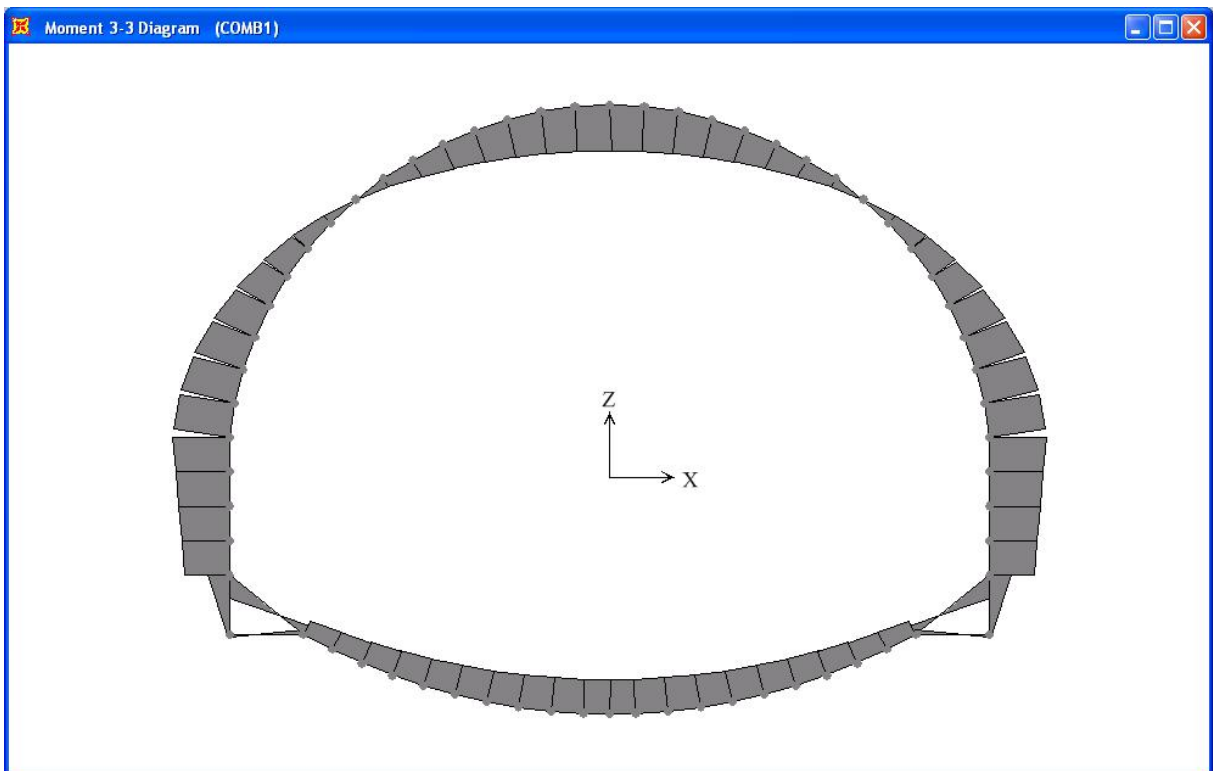
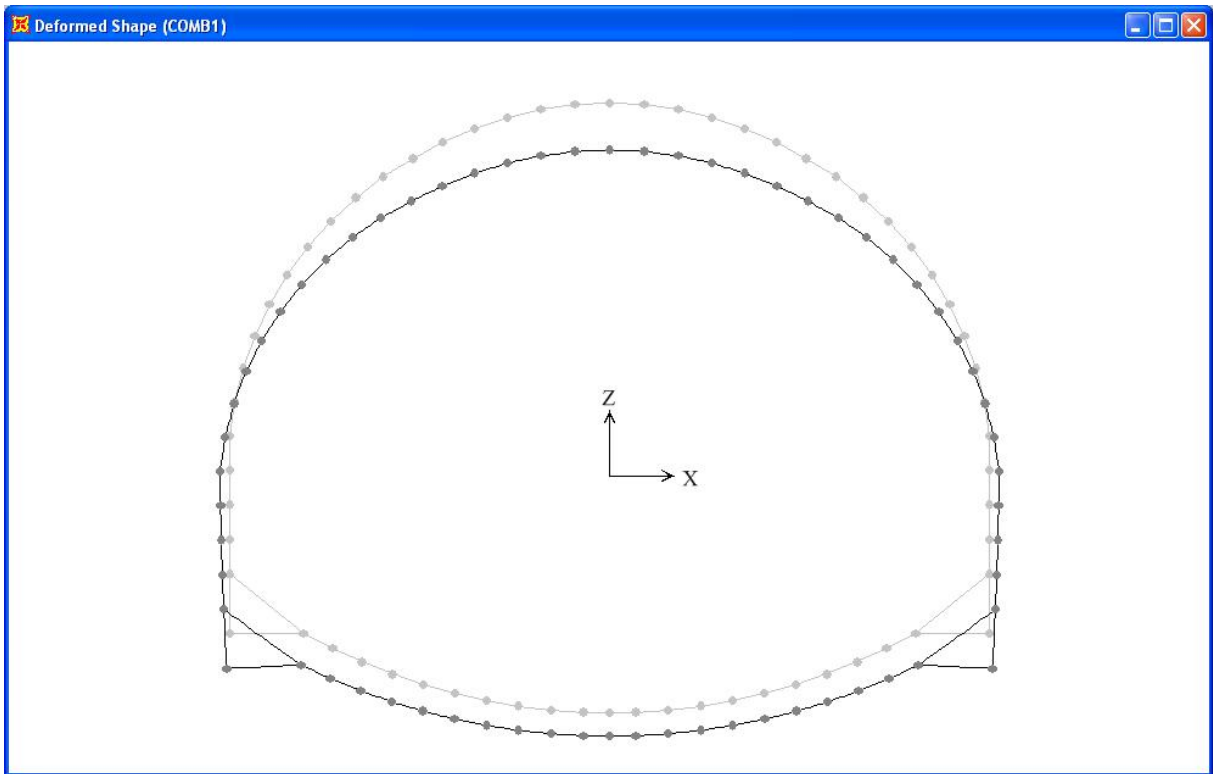


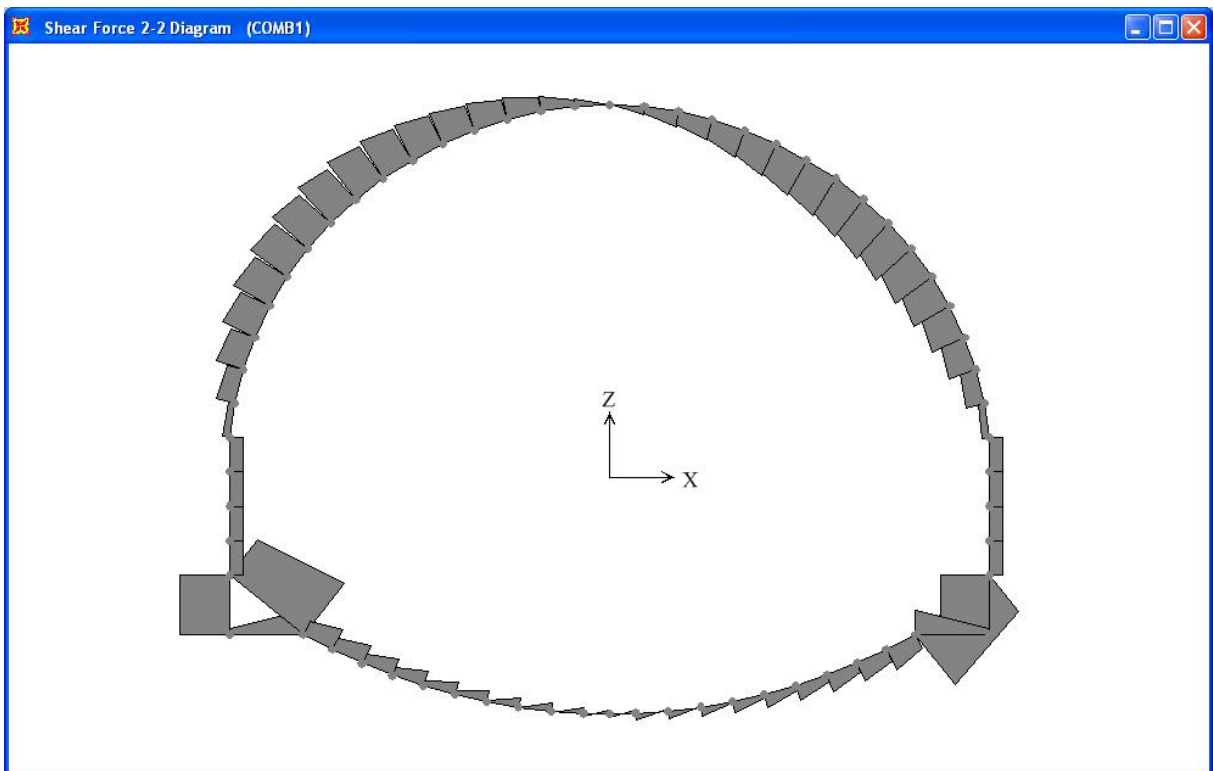
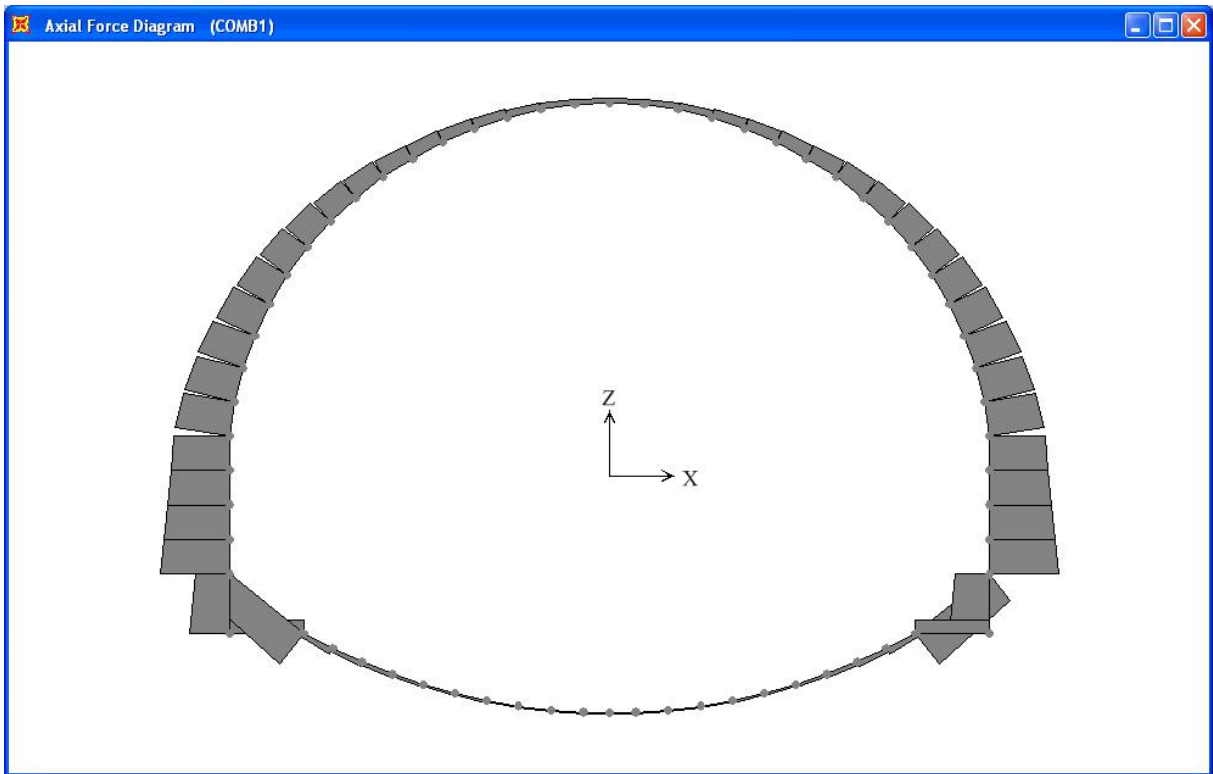


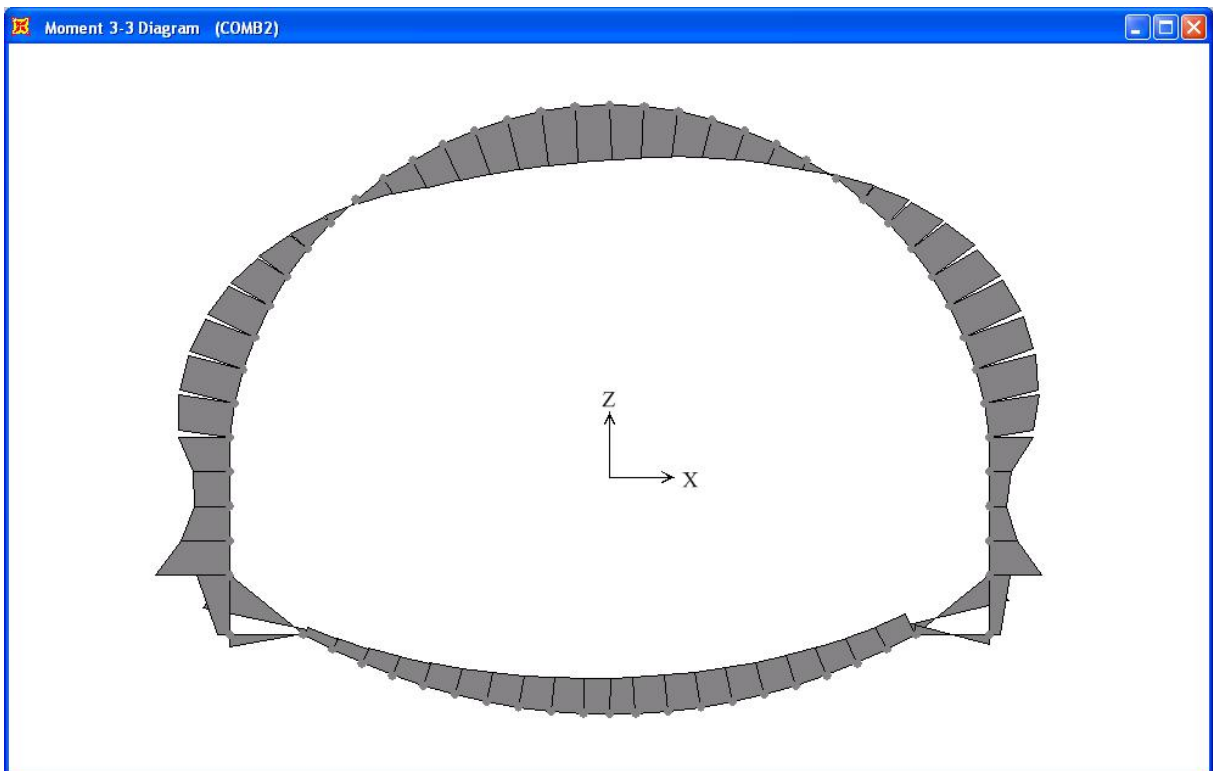
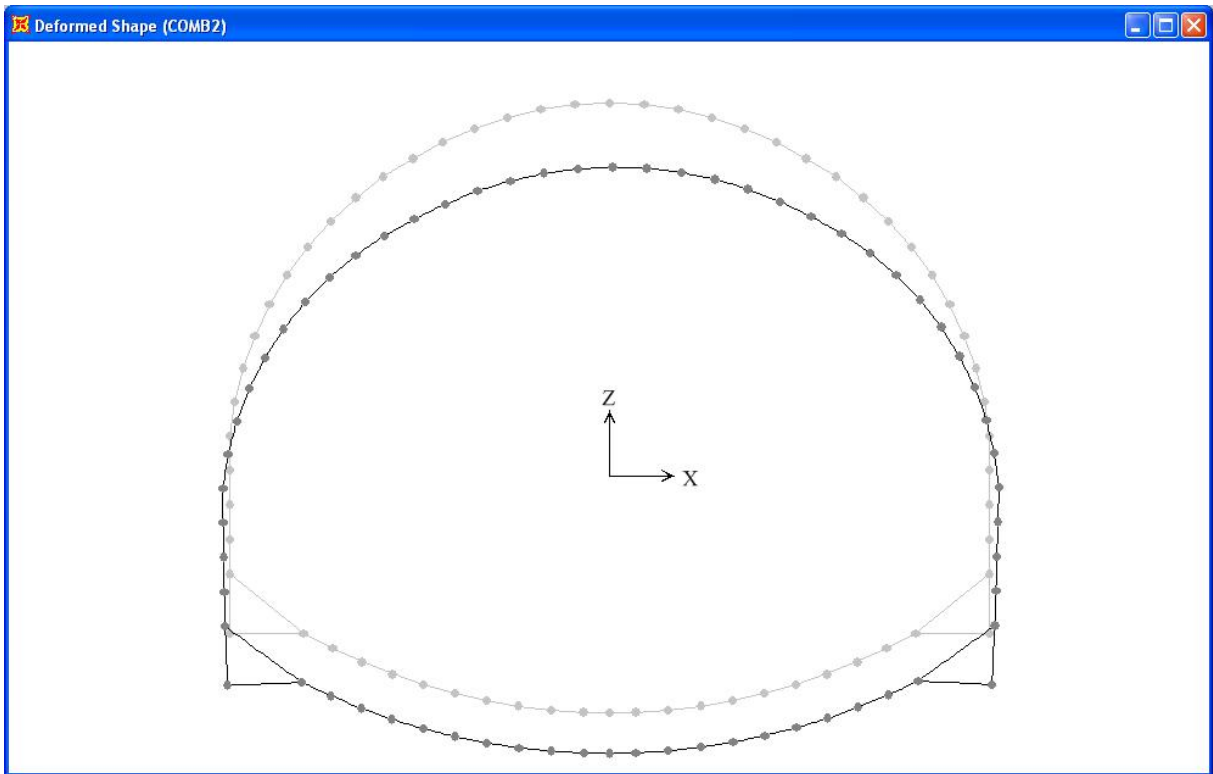
## **Allegato 4**

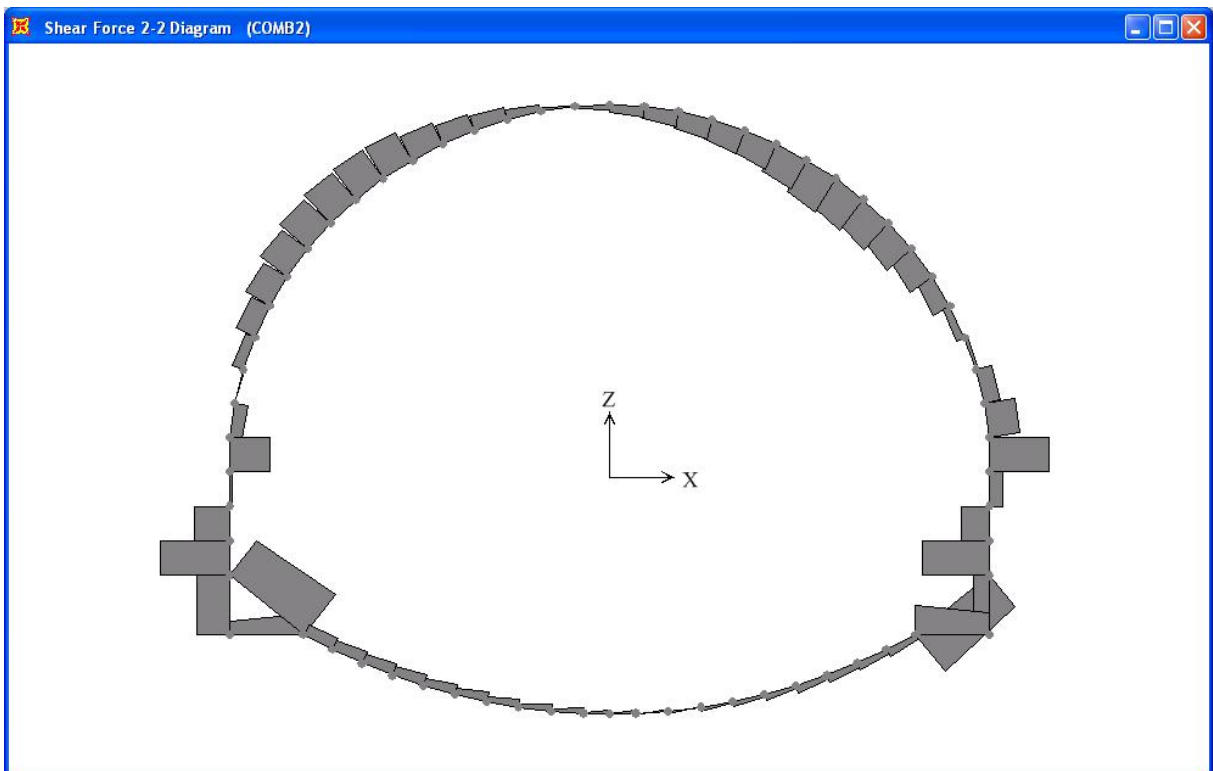
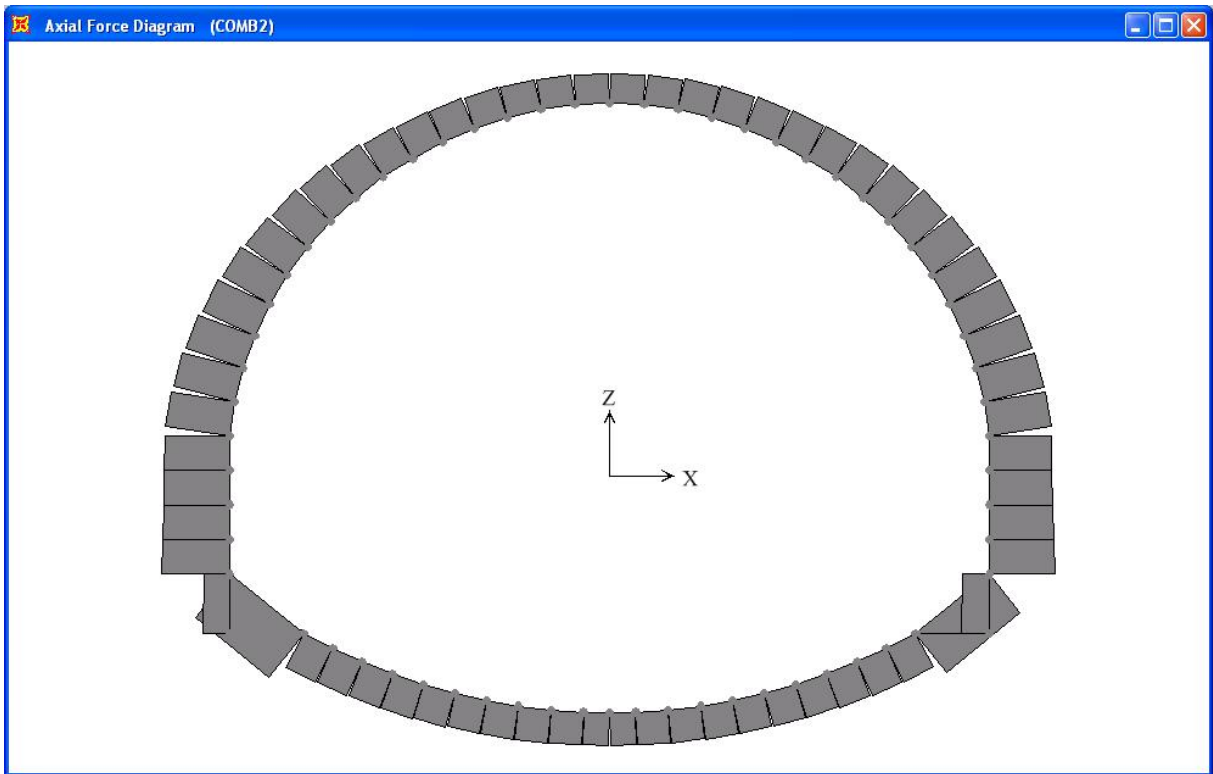
### **Galleria artificiale – CALCOLO II**

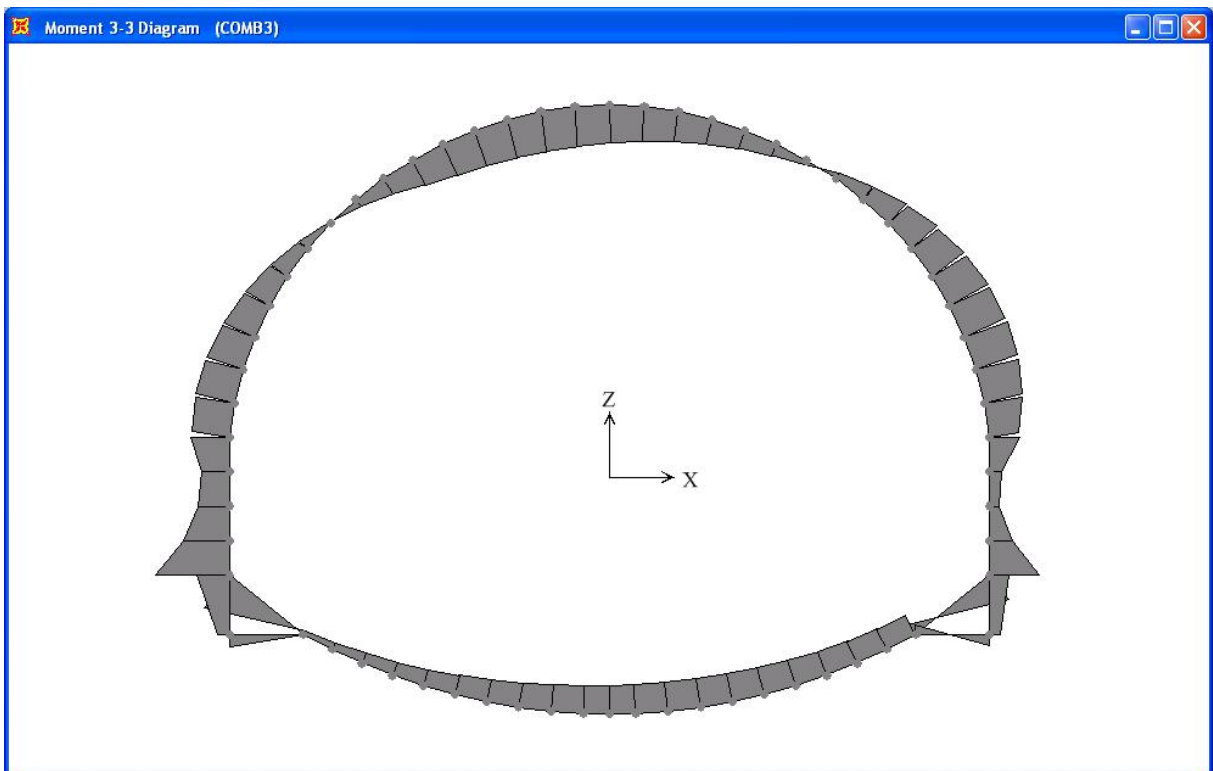
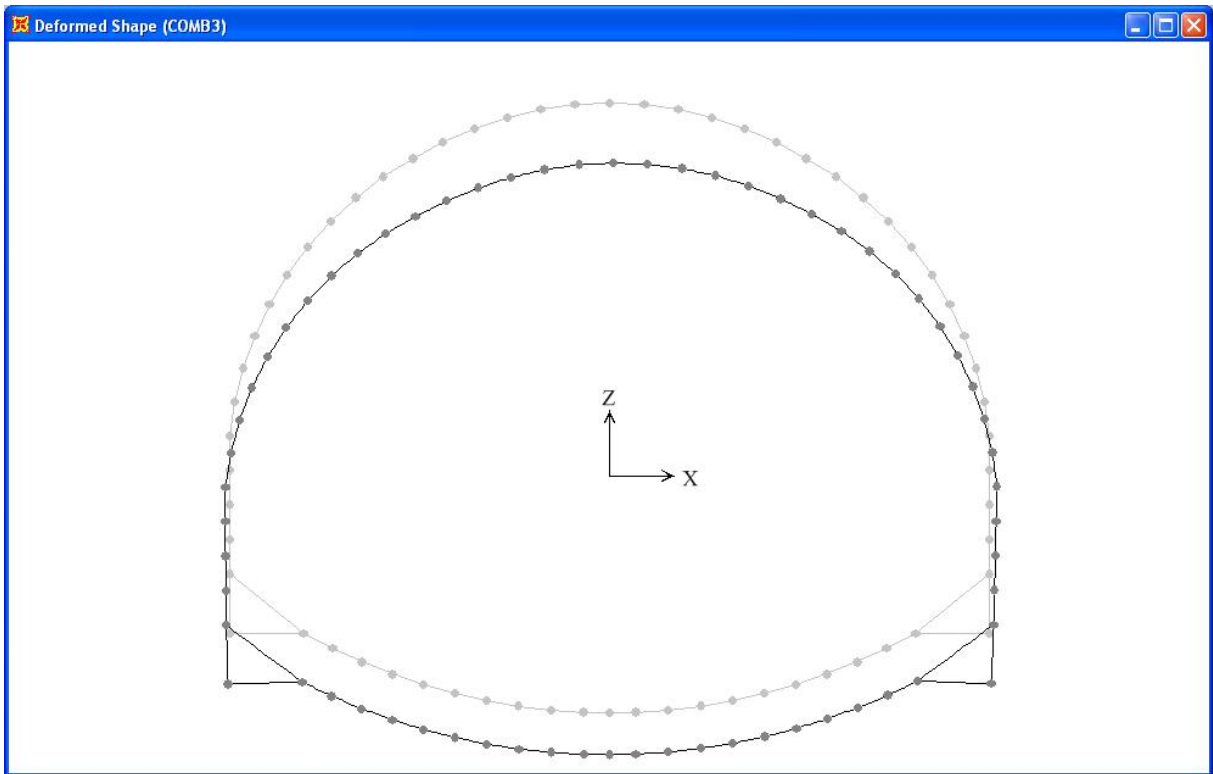
#### **Output grafici**

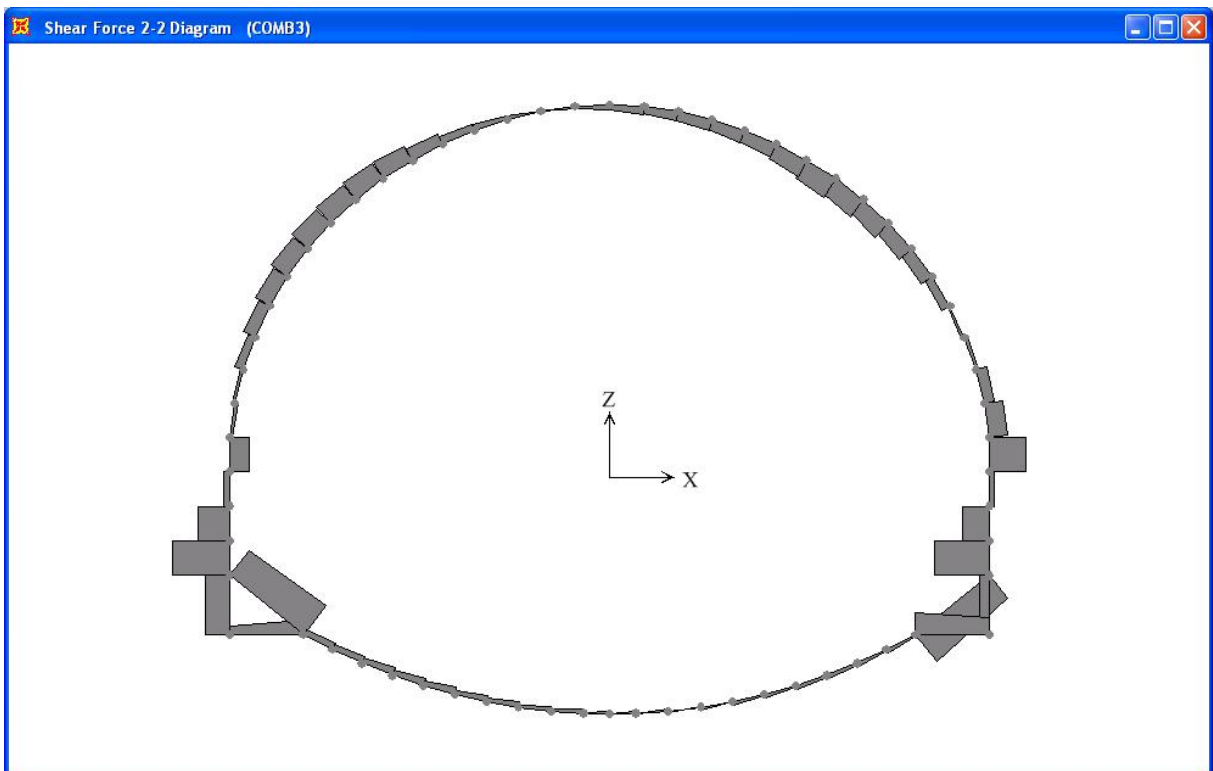
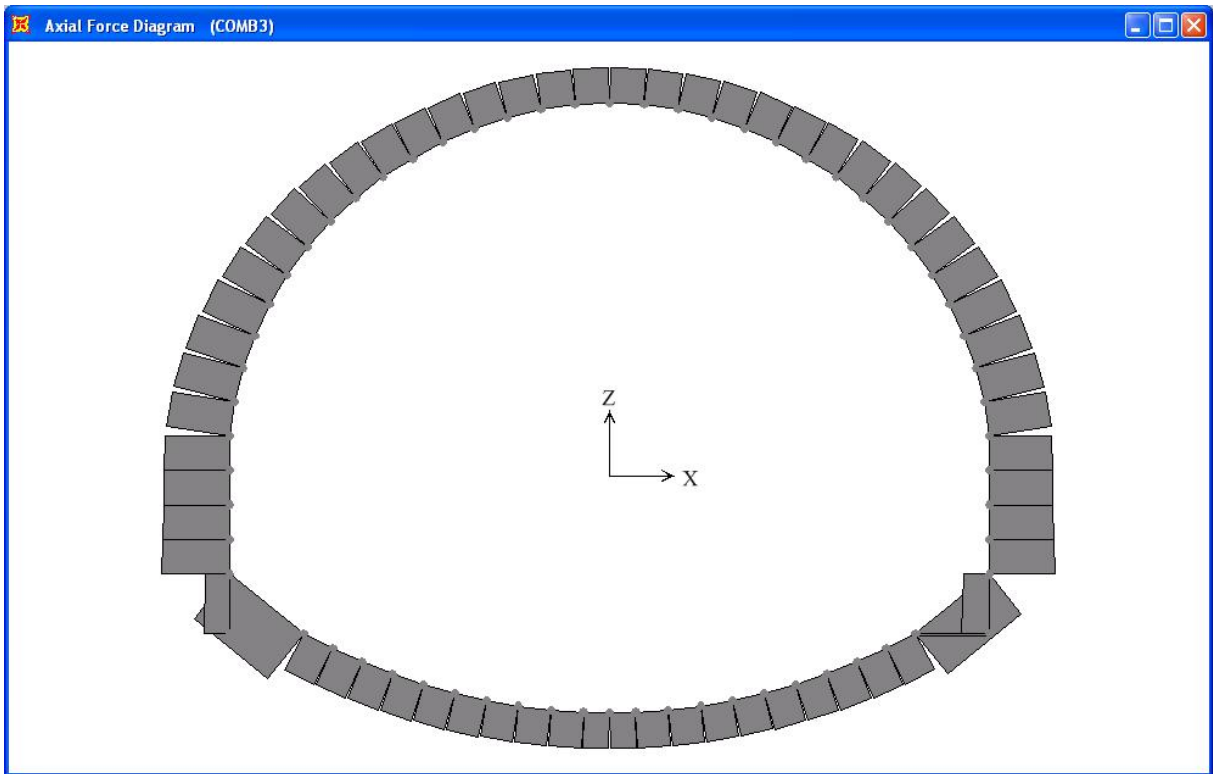


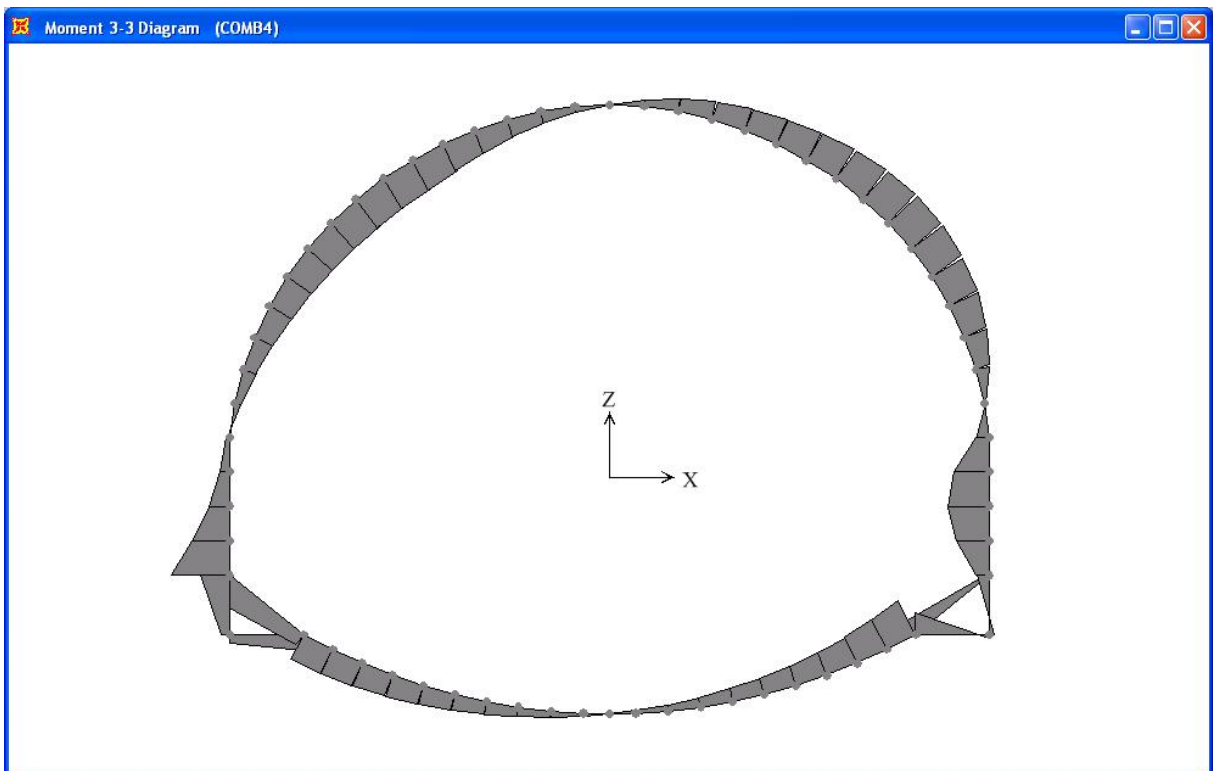
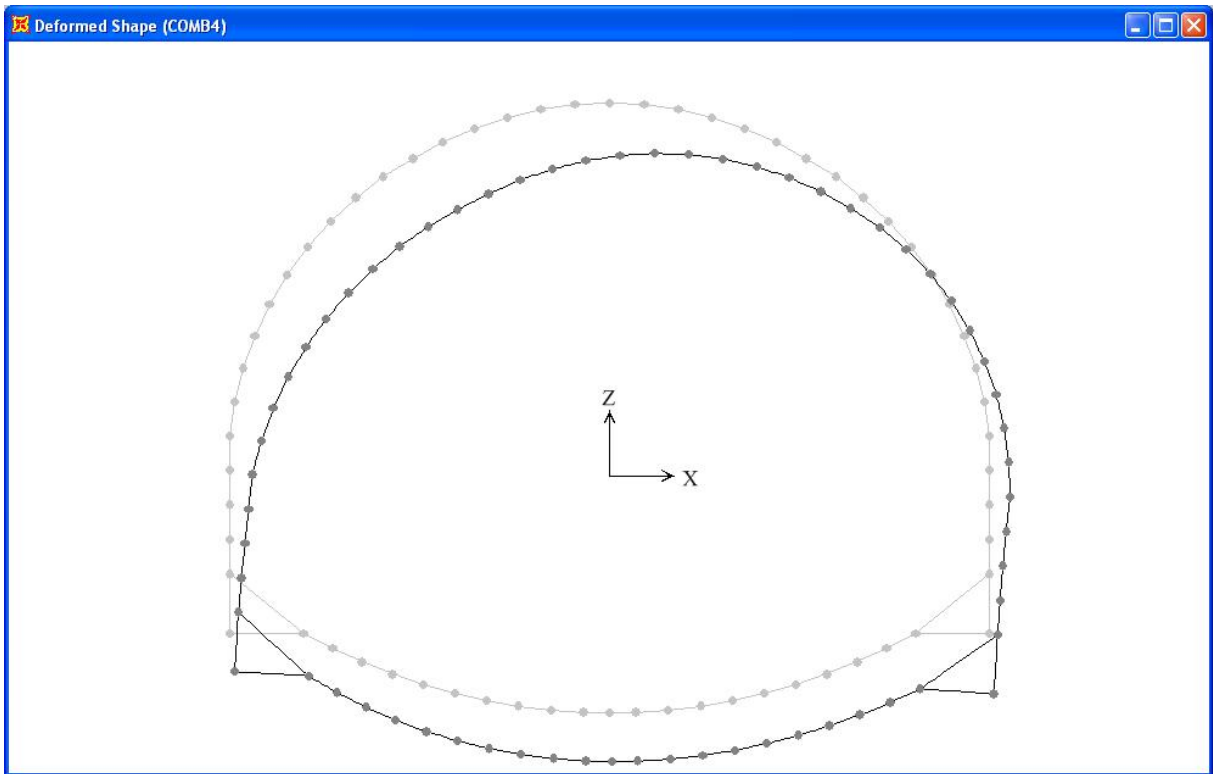




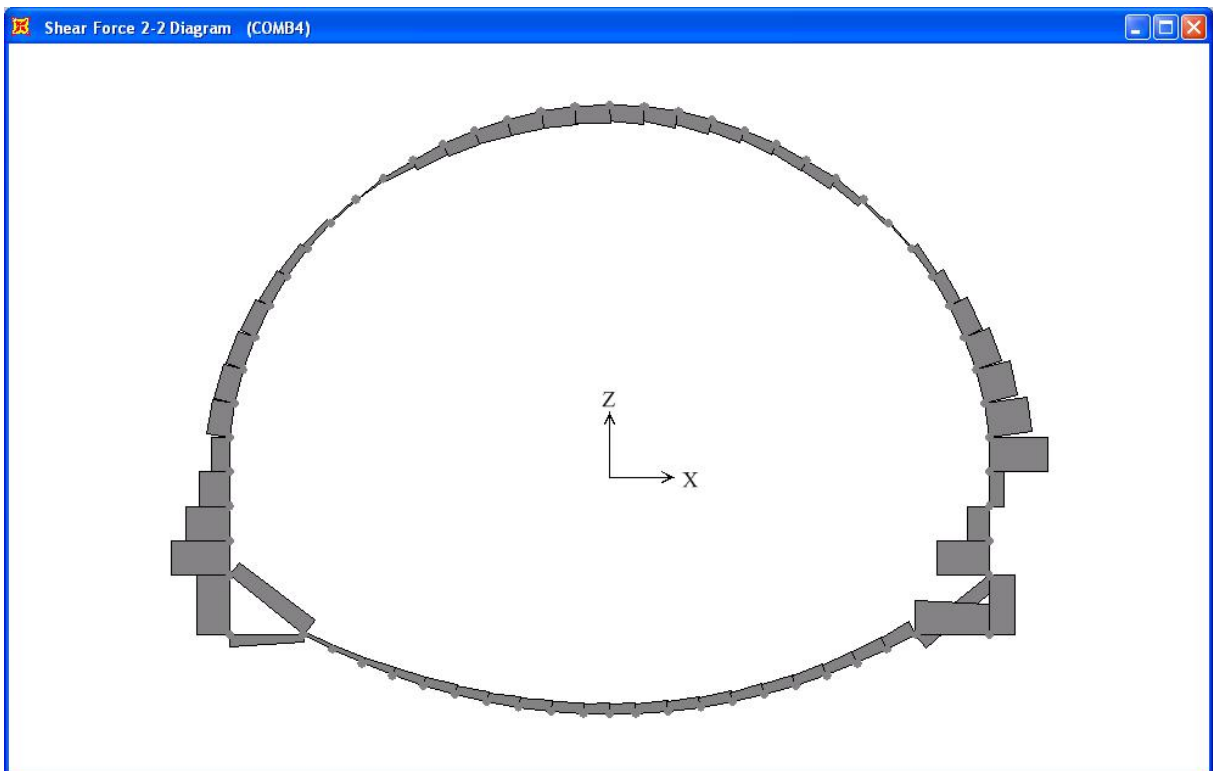
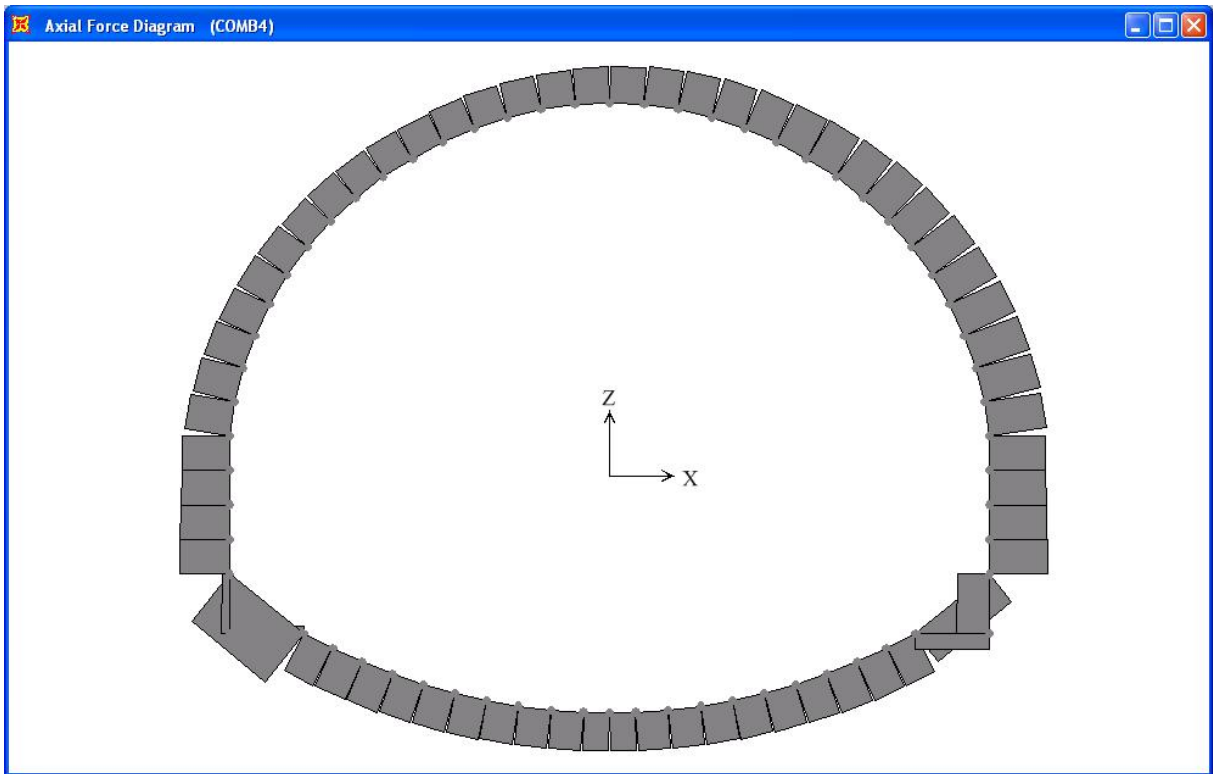


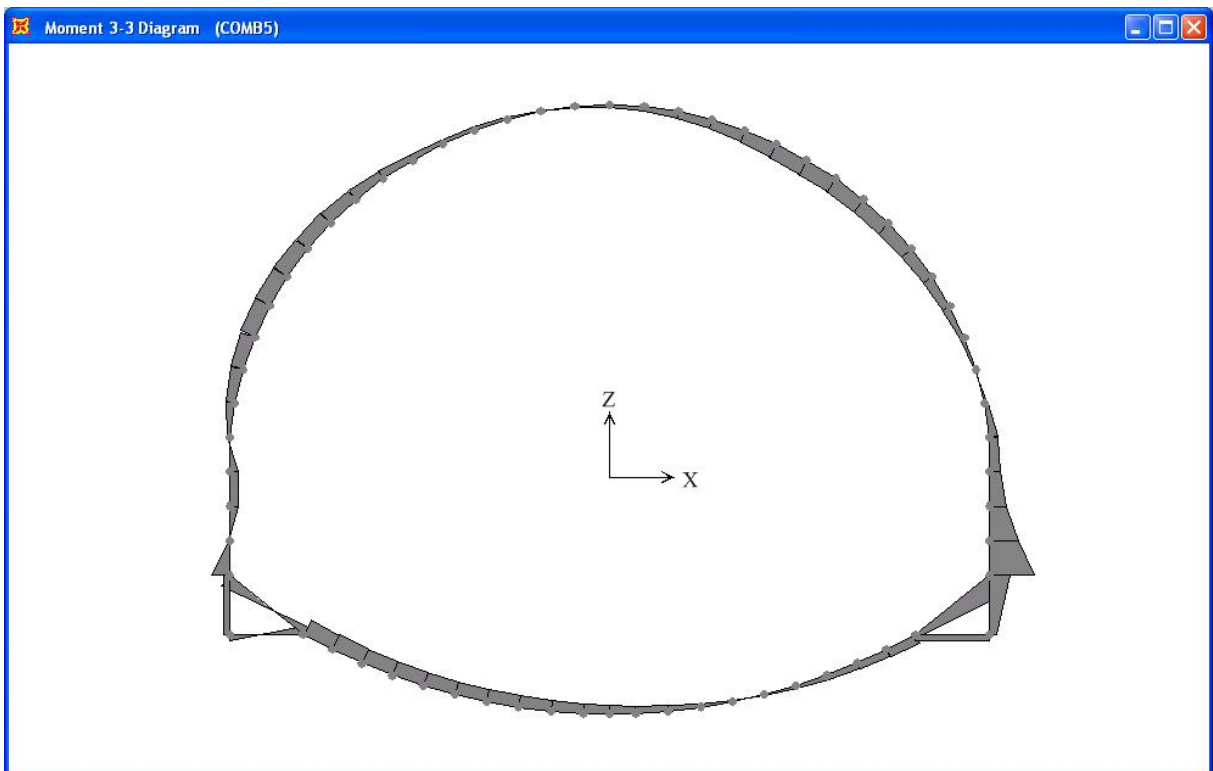
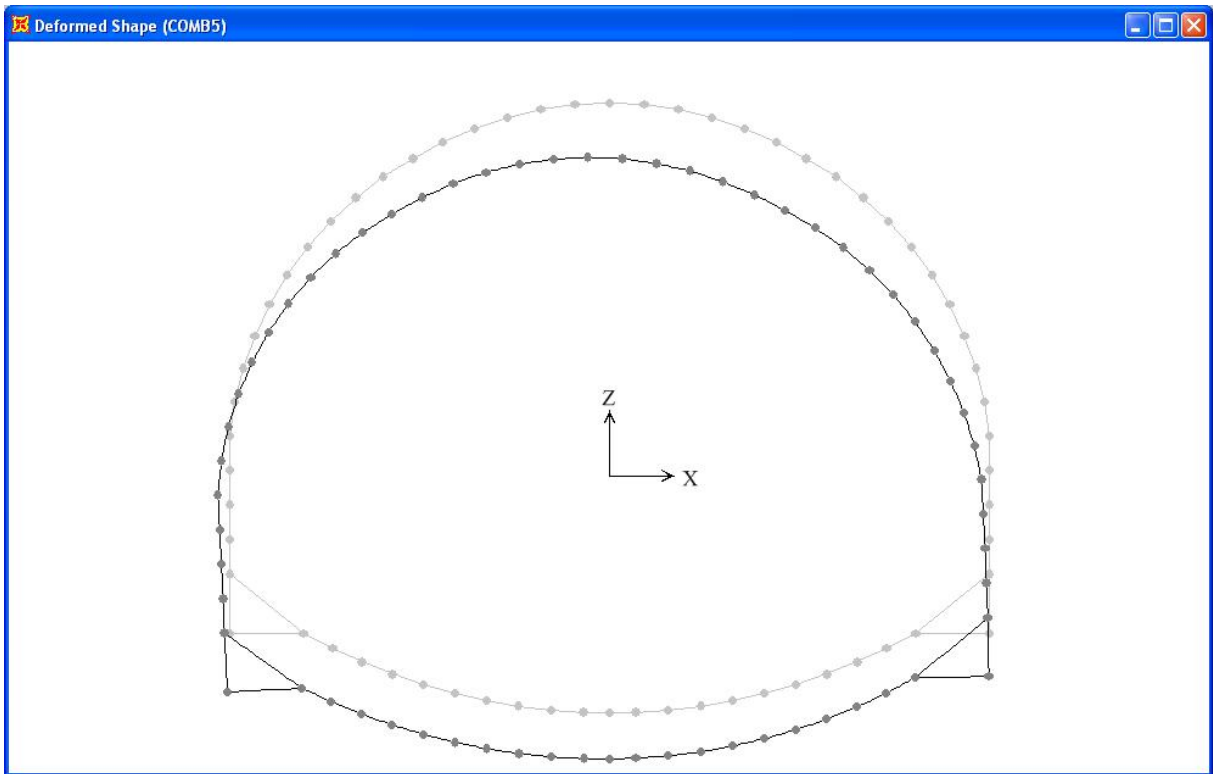


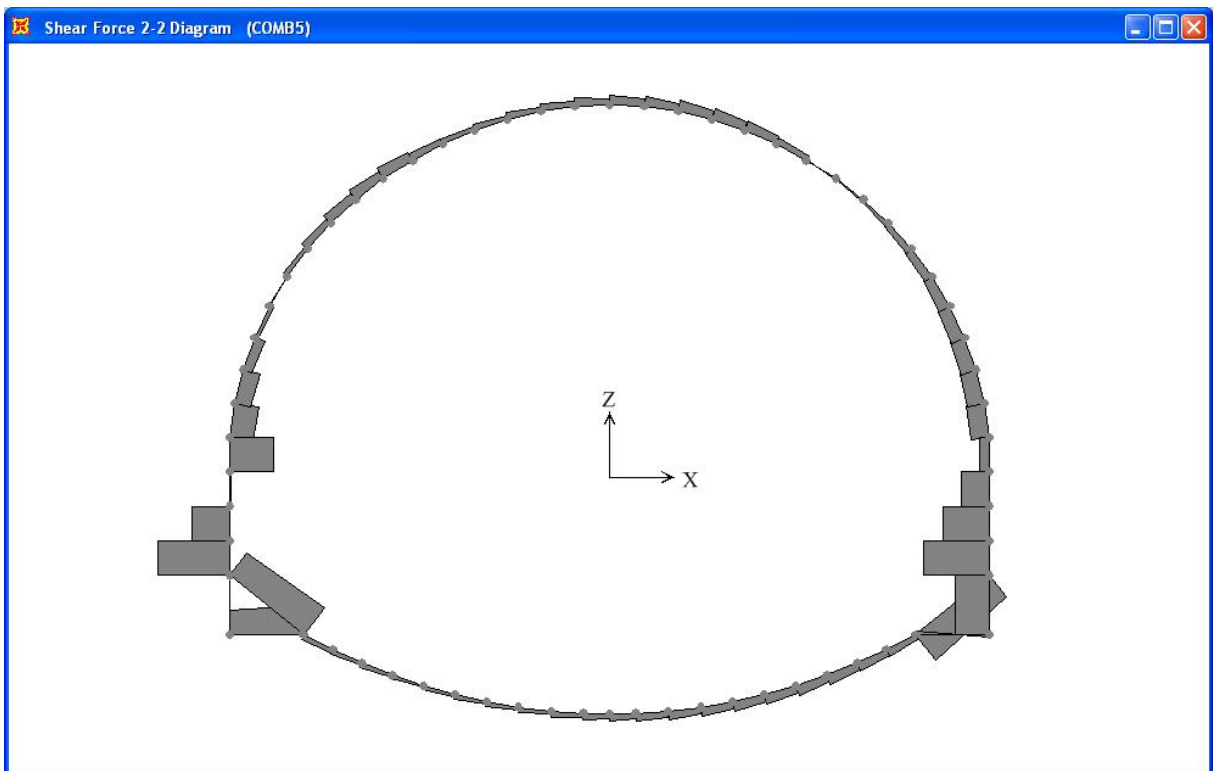
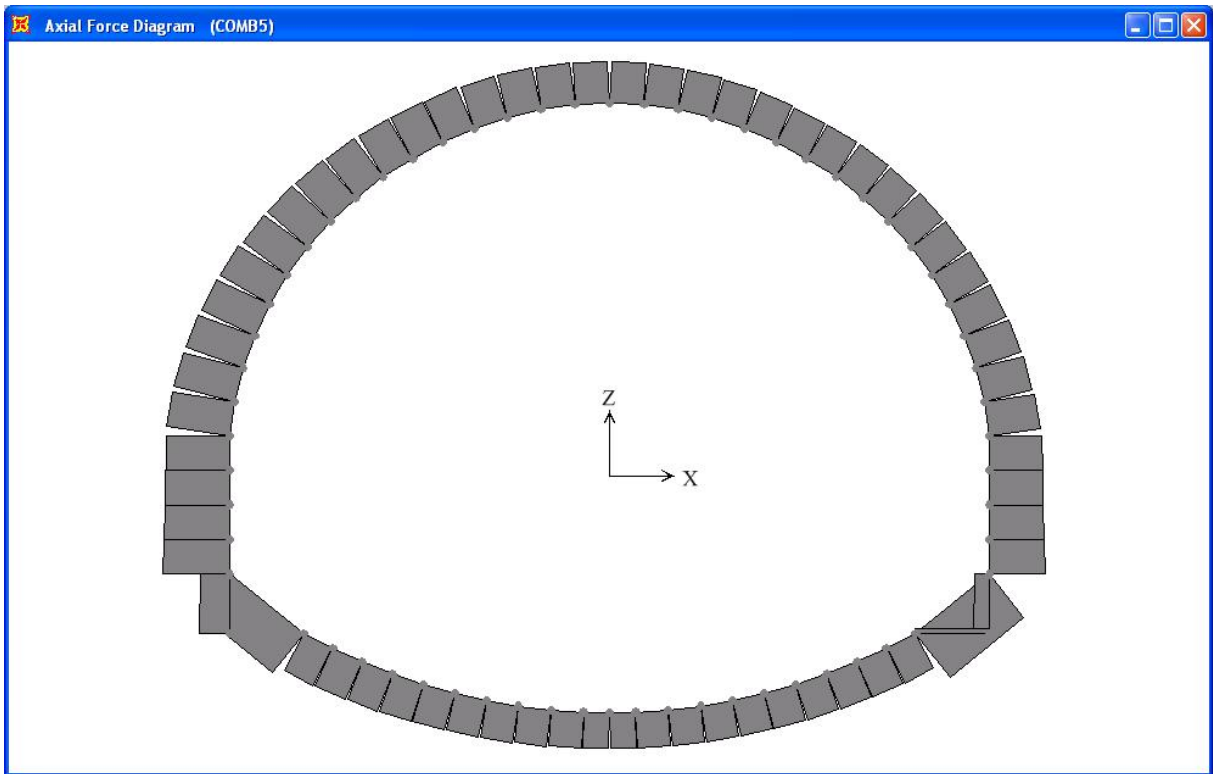


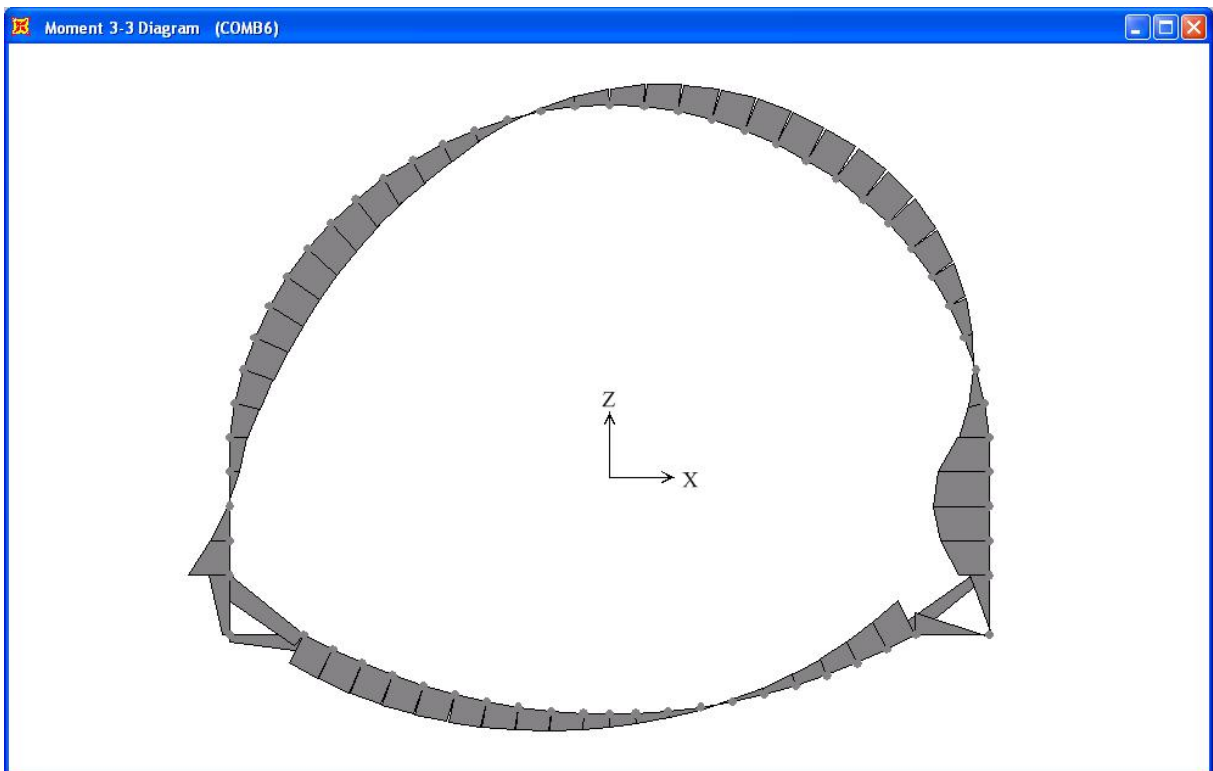
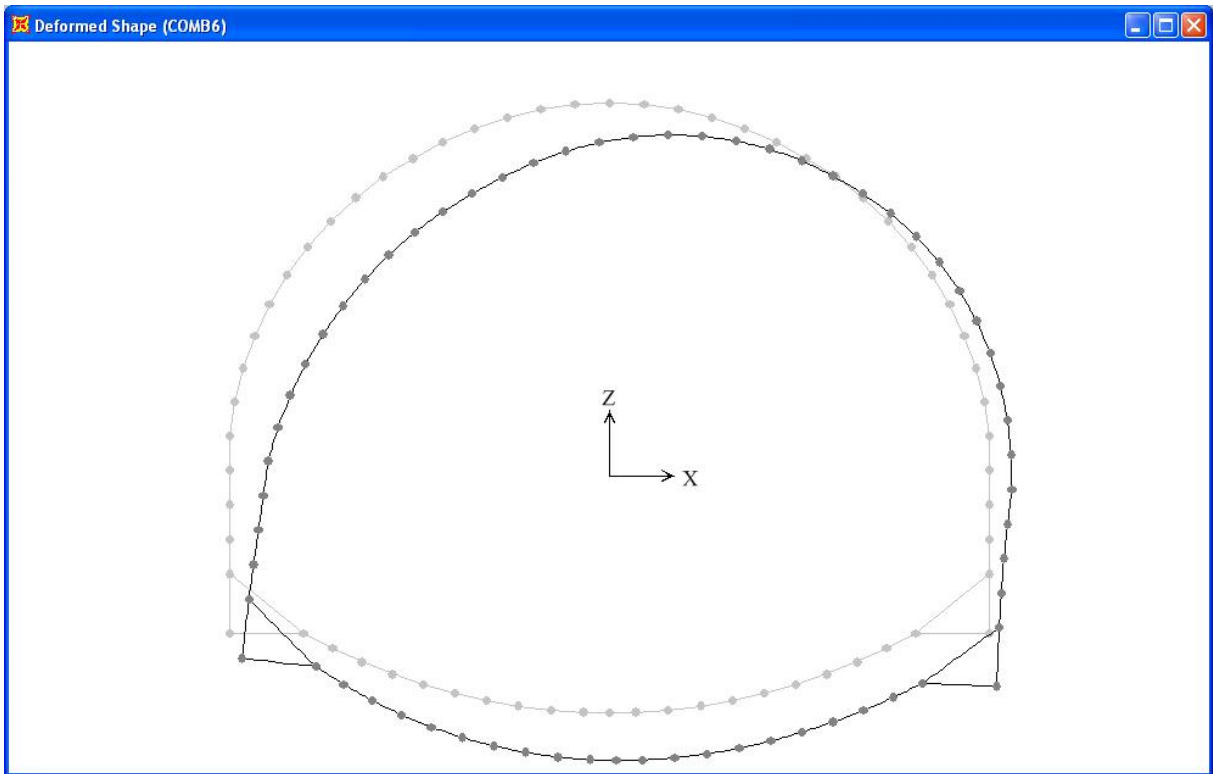


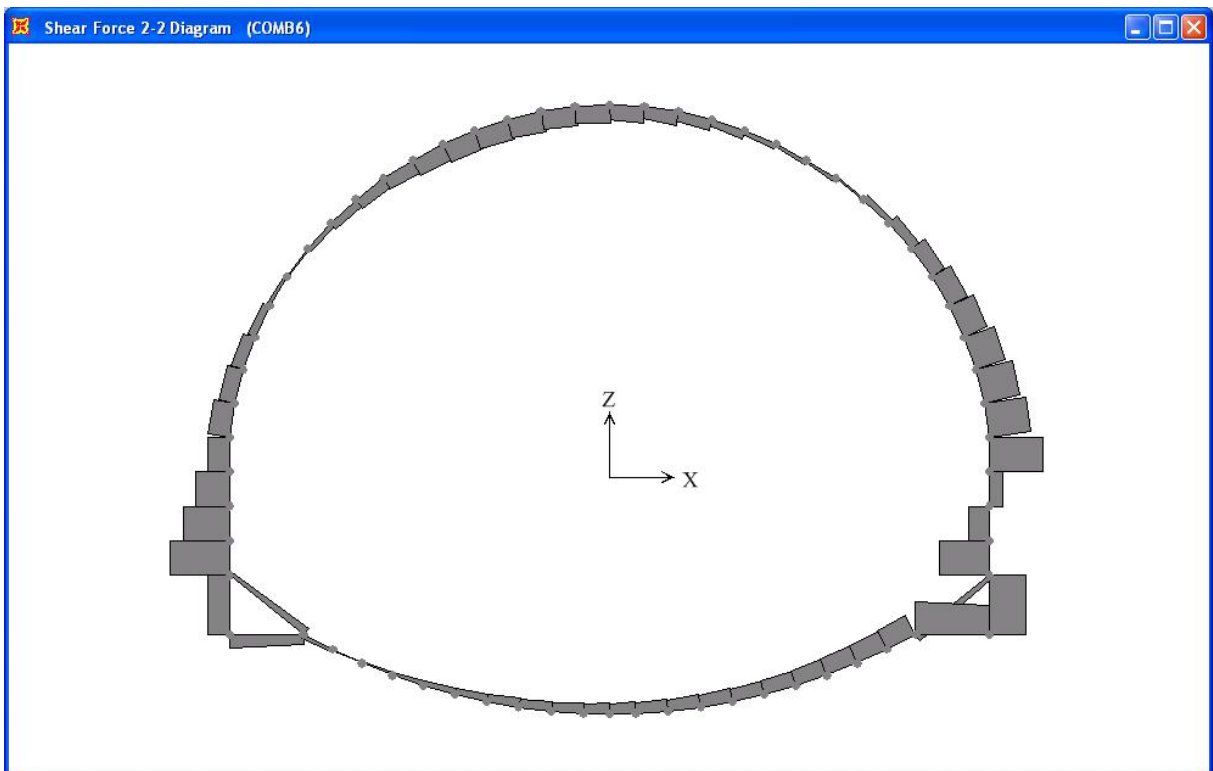
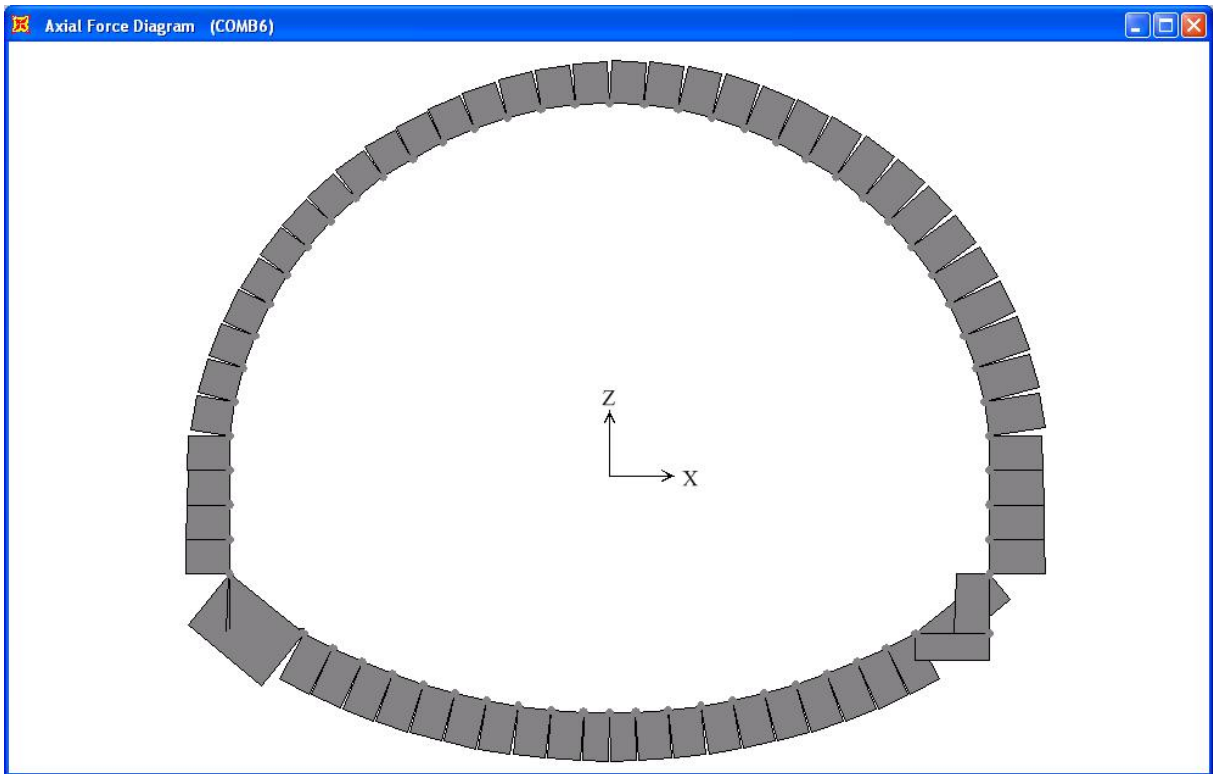


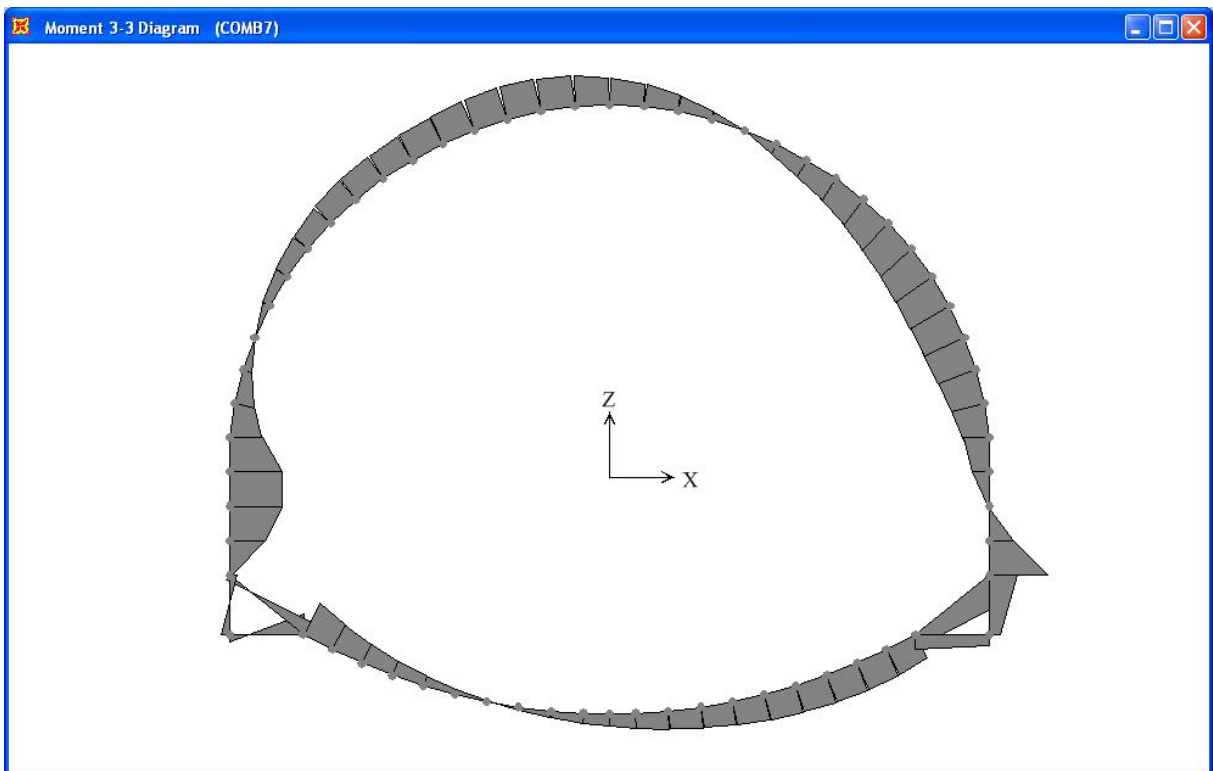
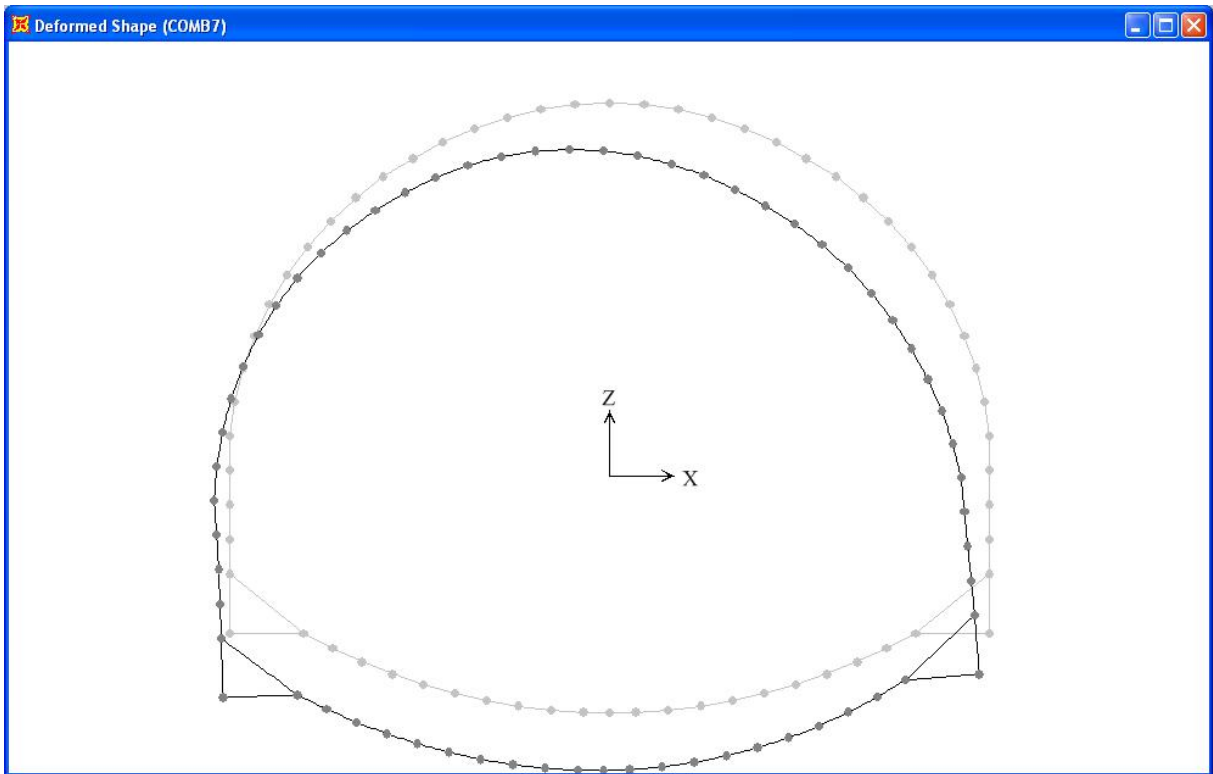


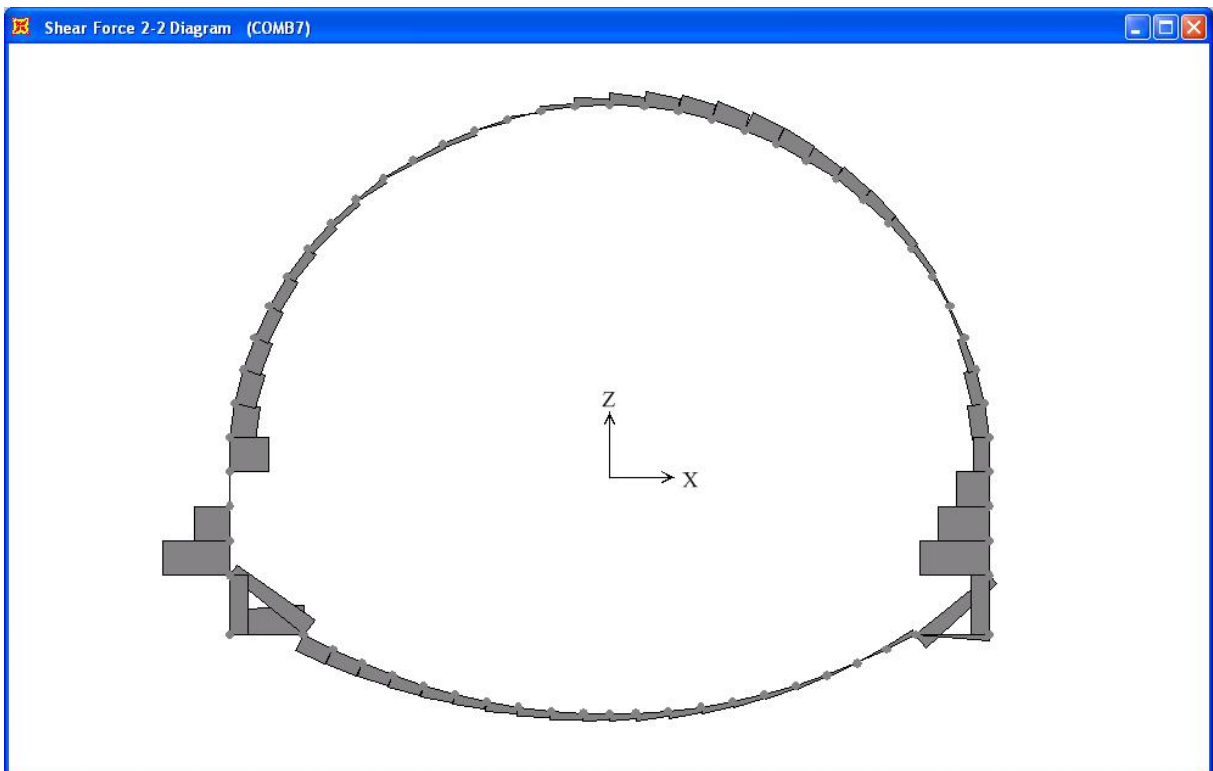
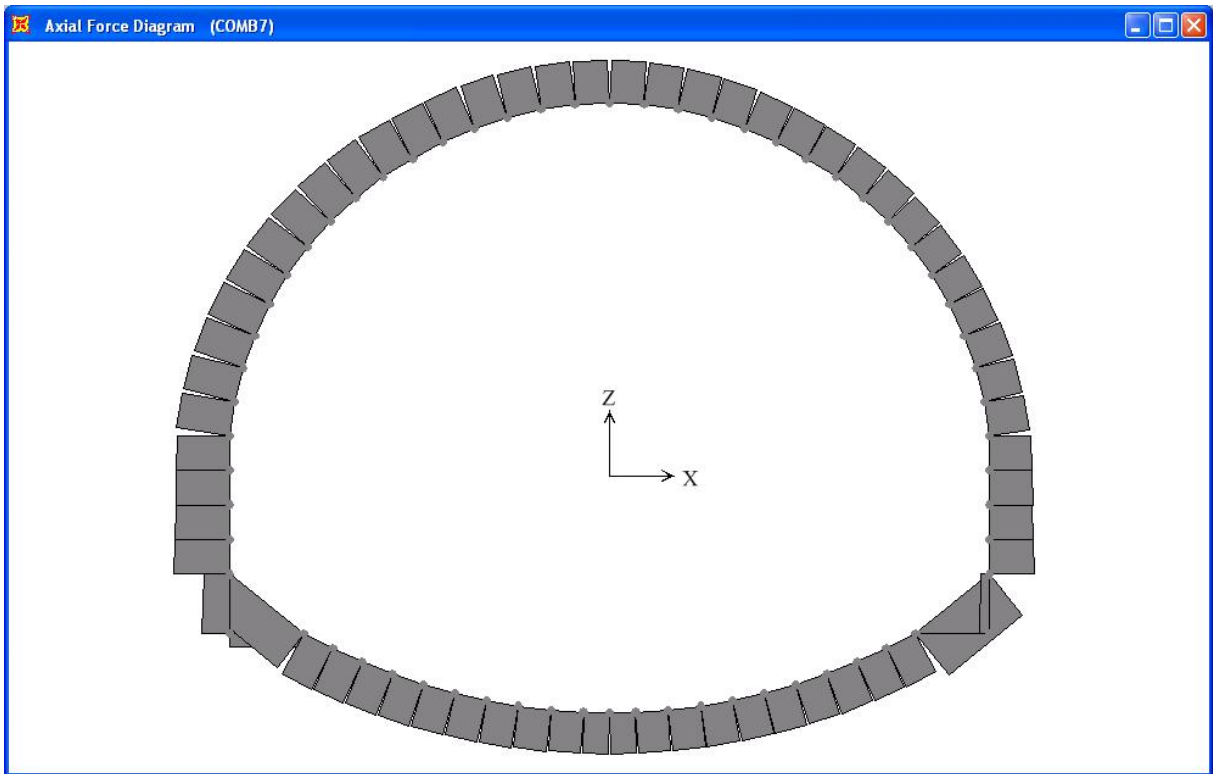












## **Allegato 5**

### **Galleria artificiale - CALCOLO I**

#### **Tabelle di verifica**



## **Verifiche allo S.L.E.**

TABLE: Element Forces - Frames									Estradosso		Intradosso		VERIFICHE SEZIONALI				Apertura Fessure
Frame	Joint	StepType	Height	P	V2	M3	A <sub>f</sub>	A <sub>f</sub> '	σ <sub>c</sub>	σ <sub>s,inf</sub>	σ <sub>s,sup</sub>	τ	Wk				
Text	Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>	[Mpa]	[Mpa]	[Mpa]	[kPa]	[mm]				
1	1	COMB 1	1	-6.399	-8.387	-243.471	26.55	26.55	-2.0	-23.2	102.7	-9.3	0.01				
1	2	COMB 1	1	-6.109	5.606	-242.692	26.55	26.55	-2.0	-23.1	102.4	6.2	0.01				
2	2	COMB 1	1	-7.131	-13.257	-242.692	26.55	26.55	-2.0	-23.2	102.2	-14.7	0.01				
2	3	COMB 1	1	-5.955	4.201	-239.523	26.55	26.55	-2.0	-22.8	101.1	4.7	0.00				
3	3	COMB 1	1	-8.281	-18.825	-239.523	26.55	26.55	-2.0	-22.9	100.7	-18.7	0.00				
3	4	COMB 1	1	-6.203	0.550	-233.827	26.55	26.55	-1.9	-22.3	98.6	0.6	0.00				
4	4	COMB 1	1	-9.863	-20.565	-233.827	26.55	26.55	-1.9	-22.4	98.0	-22.9	0.00				
4	5	COMB 1	1	-6.889	-3.322	-225.468	26.55	26.55	-1.9	-21.5	94.9	-3.7	0.00				
5	5	COMB 1	1	-11.934	-24.538	-225.468	26.55	26.55	-1.9	-21.6	94.1	-27.3	0.00				
5	6	COMB 1	1	-8.072	-7.471	-214.266	26.55	26.55	-1.8	-20.5	90.0	-8.3	0.00				
6	6	COMB 1	1	-14.563	-28.774	-214.266	26.55	26.55	-1.8	-20.6	88.8	-32.0	0.00				
6	7	COMB 1	1	-9.823	-11.930	-200.021	26.55	26.55	-1.7	-19.2	83.6	-13.3	0.00				
7	7	COMB 1	1	-17.821	-33.274	-200.021	26.55	26.55	-1.7	-19.4	82.2	-37.0	0.00				
7	8	COMB 1	1	-12.216	-16.698	-182.533	26.55	26.55	-1.5	-17.6	75.7	-18.6	0.00				
8	8	COMB 1	1	-21.779	-38.003	-182.533	26.55	26.55	-1.5	-17.8	74.1	-42.2	0.00				
8	9	COMB 1	1	-15.324	-21.739	-161.626	26.55	26.55	-1.3	-15.7	66.3	-24.2	0.00				
9	9	COMB 1	1	-26.492	-42.886	-161.626	26.55	26.55	-1.4	-15.9	64.4	-47.7	0.00				
9	10	COMB 1	1	-19.204	-26.978	-137.176	26.55	26.55	-1.1	-13.4	55.2	-30.0	0.00				
10	10	COMB 1	1	-31.996	-47.816	-137.176	26.55	26.55	-1.2	-13.7	53.0	-53.1	0.00				
10	11	COMB 1	1	-23.895	-32.306	-109.137	26.55	26.55	-0.9	-10.9	42.4	-35.9	0.00				
12	12	COMB 1	1	-370.325	-29.135	318.426	26.55	26.55	-2.8	76.1	-36.0	-32.4	0.05				
12	13	COMB 1	1	-351.798	-29.135	340.020	26.55	26.55	-3.0	87.7	-38.0	-32.4	0.07				
13	13	COMB 1	1	-351.798	-29.135	340.020	26.55	26.55	-3.0	87.7	-38.0	-32.4	0.07				
13	14	COMB 1	1	-333.268	-29.135	361.613	26.55	26.55	-3.2	99.4	-40.0	-32.4	0.09				
14	14	COMB 1	1	-333.268	-29.135	361.613	26.55	26.55	-3.2	99.4	-40.0	-32.4	0.09				
14	15	COMB 1	1	-314.737	-29.135	383.207	26.55	26.55	-3.4	111.3	-42.0	-32.4	0.11				
15	15	COMB 1	1	-314.737	-29.135	383.207	26.55	26.55	-3.4	111.3	-42.0	-32.4	0.11				
15	16	COMB 1	1	-296.208	-29.135	404.801	26.55	26.55	-3.5	123.3	-43.9	-32.4	0.12				
16	16	COMB 1	1	-297.214	15.878	404.801	26.55	26.55	-3.5	123.1	-43.9	17.6	0.12				
16	17	COMB 1	1	-278.913	13.086	394.077	26.55	26.55	-3.4	121.5	-42.6	14.5	0.12				
17	17	COMB 1	1	-276.360	39.859	394.077	26.55	26.55	-3.4	121.9	-42.5	44.3	0.12				
17	18	COMB 1	1	-258.413	35.319	366.242	26.55	26.55	-3.2	113.1	-39.6	39.2	0.10				
18	18	COMB 1	1	-253.816	60.016	366.242	26.55	26.55	-3.2	113.8	-39.5	66.7	0.10				
18	19	COMB 1	1	-236.389	53.771	324.113	26.55	26.55	-2.8	98.8	-35.1	59.7	0.07				
19	19	COMB 1	1	-230.119	76.294	324.113	26.55	26.55	-2.8	99.8	-35.0	84.7	0.07				
19	20	COMB 1	1	-213.374	68.370	270.562	26.55	26.55	-2.4	80.0	-29.5	76.0	0.03				
20	20	COMB 1	1	-205.806	88.581	270.562	26.55	26.55	-2.4	81.2	-29.4	98.4	0.03				
20	21	COMB 1	1	-189.888	79.114	208.472	26.55	26.55	-1.8	57.8	-23.0	87.9	0.00				
21	21	COMB 1	1	-181.406	97.016	208.472	26.55	26.55	-1.8	59.0	-23.0	107.8	0.00				
21	22	COMB 1	1	-166.482	86.062	140.687	26.55	26.55	-1.2	33.2	-15.9	95.6	0.00				
22	22	COMB 1	1	-157.430	101.680	140.687	26.55	26.55	-1.2	34.5	-15.8	113.0	0.00				
22	23	COMB 1	1	-143.629	89.340	89.962	26.55	26.55	-0.6	8.9	-8.2	99.3	0.00				
23	23	COMB 1	1	-134.368	102.744	89.962	26.55	26.55	-0.6	9.9	-8.1	114.2	0.00				
23	24	COMB 1	1	-121.818	89.134	-1.082	26.55	26.55	-0.1	-1.8	-1.6	99.0	0.00				
24	24	COMB 1	1	-112.678	100.441	-1.082	26.55	26.55	-0.1	-1.6	-1.5	111.6	0.00				
24	25	COMB 1	1	-101.496	85.687	-69.996	26.55	26.55	-0.6	-8.0	13.9	95.2	0.00				
25	25	COMB 1	1	-92.781	95.054	-69.996	26.55	26.55	-0.6	-8.0	15.1	105.6	0.00				
25	26	COMB 1	1	-83.071	79.292	-134.548	26.55	26.55	-1.2	-14.4	43.4	88.1	0.00				
26	26	COMB 1	1	-78.082	84.201	-134.548	26.55	26.55	-1.2	-14.3	44.2	93.6	0.00				
26	27	COMB 1	1	-69.356	67.873	-190.868	26.55	26.55	-1.6	-19.6	69.6	75.4	0.00				
27	27	COMB 1	1	-64.163	72.802	-190.868	26.55	26.55	-1.6	-19.5	70.4	80.9	0.00				
27	28	COMB 1	1	-56.657	55.879	-238.514	26.55	26.55	-2.0	-23.8	92.0	62.1	0.00				
28	28	COMB 1	1	-51.237	60.887	-238.514	26.55	26.55	-2.0	-23.7	92.9	67.7	0.00				
28	29	COMB 1	1	-45.331	43.341	-277.106	26.55	26.55	-2.3	-27.3	110.4	48.2	0.04				
29	29	COMB 1	1	-41.120	47.355	-277.106	26.55	26.55	-2.3	-27.2	111.1	52.6	0.04				
29	30	COMB 1	1	-36.865	29.337	-305.502	26.55	26.55	-2.6	-29.8	123.9	32.6	0.07				
30	30	COMB 1	1	-33.989	32.626	-305.502	26.55	26.55	-2.6	-29.7	124.4	36.3	0.08				
30	31	COMB 1	1	-31.421	14.292	-322.874	26.55	26.55	-2.7	-31.3	132.2	15.9	0.09				
31	31	COMB 1	1	-29.962	17.141	-322.874	26.55	26.55	-2.7	-31.3	132.5	19.0	0.09				
31	32	COMB 1	1	-29.103	-1.352	-328.720	26.55	26.55	-2.7	-31.8	135.1	-1.5	0.10				
32	32	COMB 1	1	-29.103	1.350	-328.720	26.55	26.55	-2.7	-31.8	135.1	1.5	0.10				
32	33	COMB 1	1	-29.962	-17.143	-322.873	26.55	26.55	-2.7	-31.3	132.5	-19.0	0.09				
33	33	COMB 1	1	-31.421	-14.294	-322.873	26.55	26.55	-2.7	-31.3	132.2	-15.9	0.09				
33	34	COMB 1	1	-33.989	32.628	-305.499	26.55	26.55	-2.6	-29.7	124.4	36.3	0.08				
34	34	COMB 1	1	-36.866	-29.339	-305.499	26.55	26.55	-2.6	-29.8	123.9	-32.6	0.07				
34	35	COMB 1	1	-41.121	-47.356	-277.102	26.55	26.55	-2.3	-27.2	111.1	-52.6	0.04				
35	35	COMB 1	1	-45.331	-43.343	-277.102	26.55	26.55	-2.3	-27.3	110.4	-48.2	0.04				
35	36	COMB 1	1	-51.237	-60.889	-238.509	26.55	26.55	-2.0	-23.7	92.9	-67.7	0.00				
36	36	COMB 1	1	-56.658	-55.880	-238.509	26.55	26.55	-2.0	-23.8	92.0	-62.1	0.00				
36	37	COMB 1	1	-64.164	-72.804	-190.862	26.55	26.55	-1.6	-19.5	70.4	-80.9	0.00				
37	37	COMB 1	1	-69.357	-67.875	-190.862	26.55	26.55	-1.6	-19.6	69.6	-75.4	0.00				
37	38	COMB 1	1	-78.093	-84.202	-134.540	26.55	26.55	-1.2	-14.3	44.2	-93.6	0.00				
38	38	COMB 1	1	-83.072	-79.294	-134.540	26.55	26.55	-1.2	-14.4	43.4	-88.1	0.00				
38	39	COMB 1	1	-92.782	-95.055	-69.987	26.55	26.55	-0.6	-8.0	15.1	-105.6	0.00				
39	39	COMB 1	1	-101.497	-85.688	-69.987	26.55	26.55	-0.6	-8.0	13.9	-95.2	0.00				
39	40	COMB 1	1	-112.679	-100.442	-1.072	26.55	26.55	-0.1	-1.6	-1.5	-111.6	0.00				
40	40	COMB 1	1	-121.820	-89.136	-1.072	26.55	26.55	-0.1	-1.8	-1.6	-99.0	0.00				
40	41	COMB 1	1	-134.389	-102.745	89.973	26.55	26.55	-0.6	9.9	-8.1	-114.2	0.00				
41	41	COMB 1	1	-143.631	-89.341	89.973	26.55	26.55	-0.6	9.9	-8.2	-99.3	0.00				
41	42	COMB 1	1	-157.431	-101.681	140.699	26.55	26.55	-1.2	34.5	-15.8	-113.0	0.00				
42	42	COMB 1	1	-166.483	-86.063	140.699	26.55	26.55	-1.2	33.2	-15.9	-95.6	0.00				
42	43	COMB 1	1	-181.407	-97.017	208.485	26.55	26.55	-1.8	59.0	-23.0	-107.8	0.00				
43	43	COMB 1	1	-189.899	-79.115	208.485	26.55	26.55	-1.8	57.9	-23.1	-87.9	0.00				
43	44	COMB 1	1	-205.808	-88.582	270.575	26.55	26.55	-2.4	81.2	-29.4	-98.4	0.03				
44	44	COMB 1	1	-213.375	-68.371	270.575	26.55	26.55	-2.4	80.0	-29.5	-76.0	0.03				
44	45	COMB 1	1	-230.121	-76.264	324.126	26.55	26.55	-2.8	99.8	-35.0	-84.7	0.07				
45	45	COMB 1	1	-236.391	-53.771	324.126	26.55	26.55	-2.8	98.8	-35.1	-59.7	0.07				
45	46	COMB 1	1	-253.818	-60.017	366.257	26.55	26.55	-3.2	113.8	-39.5	-66.7	0.10				
46	46	COMB 1	1	-258.415	-35.319	366.257	26.55	26.55	-3.2	113.1	-39.6	-39.2	0.10				
46	47	COMB 1	1	-276.362	-39.859	394.092	26.55	26.55	-3.4	121.9	-42.5	44.3	0.12				
47	47	COMB 1	1	-278.915	-13.												



TABLE: Element Forces - Frames										Estradosso				Intradosso				VERIFICHE SEZIONALI					Apertura Fessure
Frame	Joint	StepType	Height	P	V2	M3	A <sub>f</sub>	A <sub>f</sub>		σc	σs.inf	σs.sup	τ	Wk									
Text	Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>		[Mpa]	[Mpa]	[Mpa]	[kPa]	[mm]									
1	1	COMB 3	1	-864.934	-6.708	-363.413	26.55	26.55	-3.1	-42.5	-35.4	-7.5	0.03										
1	2	COMB 3	1	-864.644	7.285	-363.575	26.55	26.55	-3.1	-42.6	35.5	8.1	0.03										
2	2	COMB 3	1	-867.641	-15.901	-363.575	26.55	26.55	-3.1	-42.6	35.2	-17.7	0.03										
2	3	COMB 3	1	-866.465	1.557	-358.555	26.55	26.55	-3.1	-42.0	33.8	1.7	0.03										
3	3	COMB 3	1	-873.613	-23.759	-358.555	26.55	26.55	-3.1	-42.0	33.3	-26.4	0.03										
3	4	COMB 3	1	-871.535	-6.395	-348.006	26.55	26.55	-3.0	-40.8	30.4	-7.1	0.02										
4	4	COMB 3	1	-882.712	-30.950	-348.006	26.55	26.55	-3.0	-40.8	29.6	-34.4	0.02										
4	5	COMB 3	1	-879.738	-13.706	-332.378	26.55	26.55	-2.8	-39.1	25.6	-15.2	0.02										
5	5	COMB 3	1	-894.894	-37.224	-332.378	26.55	26.55	-2.8	-39.1	24.6	-41.4	0.02										
5	6	COMB 3	1	-891.032	-20.158	-312.296	26.55	26.55	-2.7	-36.9	20.0	-22.4	0.00										
6	6	COMB 3	1	-910.092	-42.306	-312.296	26.55	26.55	-2.7	-37.0	18.9	-47.0	0.01										
6	7	COMB 3	1	-905.353	-25.462	-288.580	26.55	26.55	-2.5	-34.4	14.2	-28.3	0.01										
7	7	COMB 3	1	-928.213	-45.890	-288.580	26.55	26.55	-2.5	-34.6	13.1	-51.0	0.01										
7	8	COMB 3	1	-922.608	-29.313	-262.262	26.55	26.55	-2.3	-31.9	8.8	-32.6	0.00										
8	8	COMB 3	1	-949.120	-47.640	-262.262	26.55	26.55	-2.3	-32.1	7.9	-52.9	0.00										
8	9	COMB 3	1	-942.666	-31.376	-234.609	26.55	26.55	-2.1	-29.6	4.3	-34.9	0.00										
9	9	COMB 3	1	-972.632	-47.194	-234.609	26.55	26.55	-2.1	-29.9	3.6	-52.4	0.00										
9	10	COMB 3	1	-965.344	-31.286	-207.145	26.55	26.55	-1.9	-27.6	1.0	-34.8	0.00										
10	10	COMB 3	1	-998.504	-44.168	-207.145	26.55	26.55	-1.9	-28.0	0.4	-49.1	0.00										
10	11	COMB 3	1	-990.403	-28.658	-181.658	26.55	26.55	-1.8	-26.1	-1.4	-31.8	0.00										
12	12	COMB 3	1	-1605.125	451.454	714.860	26.55	26.55	-6.2	78.0	-83.8	501.6	0.11										
12	13	COMB 3	1	-1586.596	451.454	380.256	26.55	26.55	-3.4	5.6	-48.5	501.6	0.01										
13	13	COMB 3	1	-1586.596	229.402	380.256	26.55	26.55	-3.4	5.6	-48.5	254.9	0.01										
13	14	COMB 3	1	-1568.067	229.402	210.231	26.55	26.55	-2.5	-7.5	-36.1	254.9	0.00										
14	14	COMB 3	1	-1568.067	-5.409	210.231	26.55	26.55	-2.5	-7.5	-36.1	-6.0	0.00										
14	15	COMB 3	1	-1549.537	-5.409	214.240	26.55	26.55	-2.5	-7.0	-36.1	-6.0	0.00										
15	15	COMB 3	1	-1549.537	-250.714	214.240	26.55	26.55	-2.5	-7.0	-36.1	-278.6	0.00										
15	16	COMB 3	1	-1531.008	-250.714	400.061	26.55	26.55	-3.5	9.5	-49.7	-278.6	0.01										
16	16	COMB 3	1	-1550.631	-106.065	400.061	26.55	26.55	-3.5	8.9	-49.9	-117.9	0.00										
16	17	COMB 3	1	-1532.330	-108.857	479.636	26.55	26.55	-4.1	22.3	-57.4	-121.0	0.03										
17	17	COMB 3	1	-1522.063	-49.482	479.636	26.55	26.55	-4.1	22.7	-57.3	-55.0	0.03										
17	18	COMB 3	1	-1504.716	-54.022	517.959	26.55	26.55	-4.4	31.0	-61.3	-60.0	0.04										
18	18	COMB 3	1	-1493.584	-2.845	517.959	26.55	26.55	-4.4	32.9	-61.2	3.2	0.04										
18	19	COMB 3	1	-1485.157	-3.400	518.164	26.55	26.55	-4.4	34.0	-61.2	-3.6	0.04										
19	19	COMB 3	1	-1434.497	49.451	518.164	26.55	26.55	-4.4	35.8	-61.1	54.9	0.04										
19	20	COMB 3	1	-1417.752	41.557	484.469	26.55	26.55	-4.1	29.0	-57.4	46.2	0.03										
20	20	COMB 3	1	-1380.041	89.333	484.469	26.55	26.55	-4.1	31.1	-57.2	99.3	0.04										
20	21	COMB 3	1	-1364.133	79.865	421.823	26.55	26.55	-3.6	18.8	-50.6	88.7	0.02										
21	21	COMB 3	1	-1321.549	121.952	421.823	26.55	26.55	-3.6	20.8	-50.3	135.5	0.02										
21	22	COMB 3	1	-1306.625	110.998	335.573	26.55	26.55	-3.0	7.3	-41.9	123.3	0.01										
22	22	COMB 3	1	-1261.067	147.022	335.573	26.55	26.55	-3.0	8.6	-41.5	163.4	0.01										
22	23	COMB 3	1	-1247.266	134.682	231.271	26.55	26.55	-2.3	-1.6	-33.0	149.6	0.00										
23	23	COMB 3	1	-1200.561	164.518	231.271	26.55	26.55	-2.3	-1.0	-32.4	182.8	0.00										
23	24	COMB 3	1	-1188.011	150.908	114.484	26.55	26.55	-1.7	-8.7	-24.3	167.7	0.00										
24	24	COMB 3	1	-1141.893	174.680	114.484	26.55	26.55	-1.6	-8.1	-23.6	194.1	0.00										
24	25	COMB 3	1	-1130.711	159.926	-9.405	26.55	26.55	-1.1	-16.3	-15.1	177.7	0.00										
25	25	COMB 3	1	-1086.701	177.947	-9.405	26.55	26.55	-1.1	-15.7	-14.5	197.7	0.00										
25	26	COMB 3	1	-1076.991	162.186	-135.339	26.55	26.55	-1.7	-24.1	-5.8	180.2	0.00										
26	26	COMB 3	1	-1042.955	138.307	-135.339	26.55	26.55	-1.6	-23.7	-5.3	153.7	0.00										
26	27	COMB 3	1	-1034.219	121.979	-231.737	26.55	26.55	-2.1	-30.3	2.0	135.5	0.00										
27	27	COMB 3	1	-1003.629	109.852	-231.737	26.55	26.55	-2.1	-30.0	2.6	122.1	0.00										
27	28	COMB 3	1	-996.123	92.929	-306.819	26.55	26.55	-2.6	-36.8	13.5	103.3	0.01										
28	28	COMB 3	1	-968.906	97.004	-306.819	26.55	26.55	-2.6	-36.6	14.8	107.8	0.01										
28	29	COMB 3	1	-962.999	79.458	-372.156	26.55	26.55	-3.2	-43.7	30.3	88.3	0.03										
29	29	COMB 3	1	-941.461	80.458	-372.156	26.55	26.55	-3.2	-43.7	31.8	89.4	0.03										
29	30	COMB 3	1	-937.205	62.440	-425.066	26.55	26.55	-3.7	-49.7	48.0	69.4	0.05										
30	30	COMB 3	1	-921.906	60.963	-425.066	26.55	26.55	-3.7	-49.6	49.4	67.7	0.05										
30	31	COMB 3	1	-919.338	42.629	-463.422	26.55	26.55	-4.0	-54.0	62.5	47.4	0.07										
31	31	COMB 3	1	-910.678	39.322	-463.422	26.55	26.55	-4.0	-54.0	63.4	43.7	0.07										
31	32	COMB 3	1	-909.819	20.828	-485.693	26.55	26.55	-4.2	-56.5	71.4	23.1	0.08										
32	32	COMB 3	1	-908.001	19.320	-485.693	26.55	26.55	-4.2	-56.5	71.6	18.1	0.08										
32	33	COMB 3	1	-906.859	-2.173	-490.931	26.55	26.55	-4.3	-57.1	73.3	-2.4	0.09										
33	33	COMB 3	1	-913.798	-7.161	-490.931	26.55	26.55	-4.3	-57.1	72.8	-8.0	0.09										
33	34	COMB 3	1	-916.366	-25.495	-478.840	26.55	26.55	-4.2	-55.7	68.2	-28.3	0.08										
34	34	COMB 3	1	-928.085	-30.385	-478.840	26.55	26.55	-4.2	-55.8	66.9	-33.8	0.08										
34	35	COMB 3	1	-932.341	-48.402	-449.668	26.55	26.55	-3.9	-52.5	56.5	-53.8	0.06										
35	35	COMB 3	1	-950.863	-52.424	-449.668	26.55	26.55	-3.9	-52.5	54.6	-58.2	0.06										
35	36	COMB 3	1	-956.769	-69.970	-404.350	26.55	26.55	-3.5	-47.3	39.8	-77.7	0.04										
36	36	COMB 3	1	-981.982	-72.298	-404.350	26.55	26.55	-3.5	-47.4	37.8	-80.3	0.04										
36	37	COMB 3	1	-989.488	-89.221	-344.546	26.55	26.55	-2.9	-40.7	21.7	-99.1	0.02										
37	37	COMB 3	1	-1019.736	-108.414	-344.546	26.55	26.55	-2.9	-40.8	20.0	-120.5	0.02										
37	38	COMB 3	1	-1028.472	-124.742	-258.196	26.55	26.55	-2.3	-32.5	5.0	-138.6	0.00										
38	38	COMB 3	1	-1063.708	-156.047	-258.196	26.55	26.55	-2.3	-32.8	4.1	-173.4	0.00										
38	39	COMB 3	1	-1073.419	-171.809	-136.807	26.55	26.55	-1.7	-24.2	-5.6	-190.9	0.00										
39	39	COMB 3	1	-119.905	-162.052	-136.807	26.55	26.55	-1.7	-24.8	-6.3	-180.1	0.00										
39	40	COMB 3	1	-1130.896	-176.806	-11.344	26.55	26.55	-1.1	-16.5	-14.9	-196.5	0.00										
40	40	COMB 3	1	-1180.883	-161.027	-11.344	26.55	26.55	-1.2	-15.2	-15.6	-178.9	0.00										
40	41	COMB 3	1	-1193.433	-174.837	112.936	26.55	26.55	-1.7	-8.9	-24.2	-194.0	0.00										
41	41	COMB 3	1	-1245.230	-152.273	112.936	26.55	26.55	-1.7	-9.6	-25.0	-169.2	0.00										
41	42	COMB 3	1	-1259.031	-164.612	230.263	26.55	26.55	-2.3	-1.9	-33.1	-182.9	0.00										
42	42	COMB 3	1	-1310.682	-135.225	230.263	26.55	26.55	-2.4	-2.6	-33.8	-150.3	0.00										
42	43	COMB 3	1	-1325.606	-146.180	334.454	26.55	26.55	-3.0	6.6	-42.0	-162.4	0.01										
43	43	COMB 3	1	-1374.991	-109.734	334.454	26.55	26.55	-3.0	5.4	-42.5	-121.9	0.00										
43	44	COMB 3	1	-1390.899	-119.202	419.218	26.55	26.55	-3.6	17.2	-50.5	-132.4	0.02										
44	44	COMB 3	1	-1435.614	-75.916	419.218	26.55	26.55	-3.6	15.5	-50.7	-84.4	0.02										
44	45	COMB 3	1	-1452.359	-83.810	478.356	26.55	26.55	-4.1	25.8	-56.9	-93.1	0.03										
45	45	COMB 3	1	-1489.965	-34.400	478.356	26.55	26.55	-4.1	24.0	-57.0	-38.2	0.03										
45	46	COMB 3	1	-1507.393	-40.646	506.142	26.55	26.55	-4.3	28.9	-60.0	-45.2	0.03										
46	46	COMB 3	1	-1535.494	13.706	506.142	26.55	26.55	-4.3	27.4	-60.2	15.2	0.03										
46	47	COMB 3	1	-1553.441	9.166	4																	

## **Verifiche allo S.L.U. di taglio**

Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu'' kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm' / m'
1	1	COMB 1	1	11,742	289,005	4586,842	608,5811281	5,8709	No Armatura
1	2	COMB 1	1	7,848	288,966	4586,842	608,5009136	3,9242	No Armatura
2	2	COMB 1	1	18,560	289,111	4586,842	608,8050564	9,2799	No Armatura
2	3	COMB 1	1	5,881	288,956	4586,842	608,4785329	2,9407	No Armatura
3	3	COMB 1	1	23,555	289,289	4586,842	609,1798996	11,7775	No Armatura
3	4	COMB 1	1	0,770	289,013	4586,842	608,5988729	0,385	No Armatura
4	4	COMB 1	1	28,791	289,550	4586,842	609,7293671	14,3955	No Armatura
4	5	COMB 1	1	4,651	289,151	4586,842	608,8966555	2,3254	No Armatura
5	5	COMB 1	1	34,353	289,919	4586,842	610,5057209	17,1766	No Armatura
5	6	COMB 1	1	10,459	289,395	4586,842	609,4037863	5,2297	No Armatura
6	6	COMB 1	1	40,284	290,434	4586,842	611,5917525	20,1418	No Armatura
6	7	COMB 1	1	16,702	289,788	4586,842	610,2298131	8,351	No Armatura
7	7	COMB 1	1	46,584	291,159	4586,842	613,1177485	23,2918	No Armatura
7	8	COMB 1	1	23,377	290,399	4586,842	611,15165	11,6886	No Armatura
8	8	COMB 1	1	53,204	292,195	4586,842	615,3003657	26,6201	No Armatura
8	9	COMB 1	1	30,435	291,355	4586,842	613,5305973	15,2173	No Armatura
9	9	COMB 1	1	60,040	293,725	4586,842	618,5211394	30,0202	No Armatura
9	10	COMB 1	1	37,769	292,905	4586,842	616,7939462	18,8846	No Armatura
10	10	COMB 1	1	66,942	296,103	4586,842	623,5290266	33,4712	No Armatura
10	11	COMB 1	1	45,228	295,613	4586,842	622,4960767	22,6142	No Armatura
12	12	COMB 1	1	40,789	327,991	4586,842	690,6785607	20,3945	No Armatura
12	13	COMB 1	1	40,789	323,589	4586,842	681,4084801	20,3945	No Armatura
13	13	COMB 1	1	40,789	323,589	4586,842	681,4084801	20,3945	No Armatura
13	14	COMB 1	1	40,789	319,712	4586,842	673,2452999	20,3945	No Armatura
14	14	COMB 1	1	40,789	319,712	4586,842	673,2452999	20,3945	No Armatura
14	15	COMB 1	1	40,789	316,273	4586,842	666,0022978	20,3945	No Armatura
15	15	COMB 1	1	40,789	316,273	4586,842	666,0022978	20,3945	No Armatura
15	16	COMB 1	1	40,789	313,200	4586,842	659,5320374	20,3945	No Armatura
16	16	COMB 1	1	22,229	313,286	4586,842	659,7115269	11,1146	No Armatura
16	17	COMB 1	1	18,320	312,378	4586,842	657,8004771	9,1602	No Armatura
17	17	COMB 1	1	55,803	312,156	4586,842	657,3325779	27,9013	No Armatura
17	18	COMB 1	1	49,447	312,303	4586,842	657,842773	24,7233	No Armatura
18	18	COMB 1	1	84,022	311,873	4586,842	656,7362289	42,0112	No Armatura
18	19	COMB 1	1	75,279	313,118	4586,842	659,398425	37,6387	No Armatura
19	19	COMB 1	1	106,770	312,455	4586,842	657,9618565	53,3845	No Armatura
19	20	COMB 1	1	95,718	315,152	4586,842	663,6413052	47,859	No Armatura
20	20	COMB 1	1	124,013	314,192	4586,842	661,6219099	62,0067	No Armatura
20	21	COMB 1	1	110,760	319,345	4586,842	672,4721174	55,3798	No Armatura
21	21	COMB 1	1	135,822	317,948	4586,842	669,5301063	67,9112	No Armatura
21	22	COMB 1	1	120,487	328,690	4586,842	692,1493143	60,2434	No Armatura
22	22	COMB 1	1	142,352	326,483	4586,842	687,5023136	71,176	No Armatura
22	23	COMB 1	1	125,076	358,516	4586,842	754,9568568	62,538	No Armatura
23	23	COMB 1	1	143,842	353,976	4586,842	745,3963564	71,9208	No Armatura
23	24	COMB 1	1	124,788	576,206	4586,842	1213,3658003	62,3938	No Armatura
24	24	COMB 1	1	140,617	576,206	4586,842	1213,3658003	70,3067	No Armatura
24	25	COMB 1	1	119,962	337,836	4586,842	711,4103819	59,9809	No Armatura
25	25	COMB 1	1	133,076	333,566	4586,842	702,4179094	66,5378	No Armatura
25	26	COMB 1	1	111,009	309,279	4586,842	651,2747989	55,5044	No Armatura
26	26	COMB 1	1	117,881	308,010	4586,842	648,6021086	58,9407	No Armatura
26	27	COMB 1	1	95,022	300,566	4586,842	632,927063	47,5111	No Armatura
27	27	COMB 1	1	101,923	299,633	4586,842	630,9620429	50,9614	No Armatura
27	28	COMB 1	1	78,231	296,250	4586,842	623,8391508	39,1153	No Armatura
28	28	COMB 1	1	85,242	295,471	4586,842	622,1979261	42,6209	No Armatura
28	29	COMB 1	1	60,677	293,714	4586,842	618,4378487	30,3387	No Armatura
28	29	COMB 1	1	66,287	293,193	4586,842	617,4003143	33,1485	No Armatura
29	30	COMB 1	1	41,072	292,242	4586,842	616,3982134	20,5359	No Armatura
30	30	COMB 1	1	45,676	291,919	4586,842	614,7182938	22,8382	No Armatura
30	31	COMB 1	1	20,009	291,441	4586,842	613,7115151	10,0044	No Armatura
31	31	COMB 1	1	23,987	291,286	4586,842	613,385149	11,9987	No Armatura
31	32	COMB 1	1	1,893	291,140	4586,842	613,0772176	0,9464	No Armatura
32	32	COMB 1	1	1,890	291,140	4586,842	613,0772176	0,945	No Armatura
32	33	COMB 1	1	24,000	291,286	4586,842	613,385176	12,0001	No Armatura
33	33	COMB 1	1	20,012	291,441	4586,842	613,7115434	10,0058	No Armatura
33	34	COMB 1	1	45,679	291,919	4586,842	614,7183648	22,8396	No Armatura
34	34	COMB 1	1	41,075	292,242	4586,842	615,3985268	20,5373	No Armatura
34	35	COMB 1	1	66,298	293,193	4586,842	617,4007296	33,1492	No Armatura
35	35	COMB 1	1	60,680	293,714	4586,842	618,4980292	30,3401	No Armatura
35	36	COMB 1	1	85,245	295,471	4586,842	622,1982708	42,6223	No Armatura
36	36	COMB 1	1	78,232	296,251	4586,842	623,8398349	39,116	No Armatura
36	37	COMB 1	1	101,926	299,633	4586,842	630,9632482	50,9628	No Armatura
37	37	COMB 1	1	95,025	300,567	4586,842	632,9283352	47,5125	No Armatura
37	38	COMB 1	1	117,883	308,011	4586,842	648,6050445	58,9414	No Armatura
38	38	COMB 1	1	111,012	309,281	4586,842	651,2778878	55,5058	No Armatura
38	39	COMB 1	1	133,077	333,572	4586,842	702,4399789	66,5385	No Armatura
39	39	COMB 1	1	119,963	337,843	4586,842	711,424582	59,9816	No Armatura
39	40	COMB 1	1	140,619	576,206	4586,842	1213,3658003	70,3094	No Armatura
40	40	COMB 1	1	124,790	576,206	4586,842	1213,3658003	62,3952	No Armatura
40	41	COMB 1	1	143,843	353,968	4586,842	745,3757805	71,9215	No Armatura
41	41	COMB 1	1	125,077	358,506	4586,842	754,9358237	62,5387	No Armatura
41	42	COMB 1	1	142,353	326,480	4586,842	687,4960488	71,1767	No Armatura
42	42	COMB 1	1	120,488	328,686	4586,842	692,1426598	60,2441	No Armatura
42	43	COMB 1	1	135,824	317,947	4586,842	669,5266545	67,9119	No Armatura
43	43	COMB 1	1	110,761	319,344	4586,842	672,4684878	55,3805	No Armatura
43	44	COMB 1	1	124,015	314,191	4586,842	661,6189446	62,0074	No Armatura
44	44	COMB 1	1	95,719	315,151	4586,842	663,6387934	47,8597	No Armatura
44	45	COMB 1	1	106,770	312,454	4586,842	657,9601031	53,3848	No Armatura
45	45	COMB 1	1	75,279	313,117	4586,842	659,3572292	37,6397	No Armatura
45	46	COMB 1	1	84,024	311,872	4586,842	656,73467	42,0119	No Armatura
46	46	COMB 1	1	49,447	312,302	4586,842	657,6411777	24,7233	No Armatura
46	47	COMB 1	1	55,803	312,155	4586,842	657,331068	27,9013	No Armatura
47	47	COMB 1	1	18,320	312,377	4586,842	657,7989498	9,1602	No Armatura
47	48	COMB 1	1	22,229	313,285	4586,842	659,7097666	11,1146	No Armatura
48	48	COMB 1	1	40,789	313,200	4586,842	659,530462	20,3945	No Armatura
48	49	COMB 1	1	40,789	316,272	4586,842	666,0003684	20,3945	No Armatura
49	49	COMB 1	1	40,789	316,272	4586,842	666,0003684	20,3945	No Armatura
49	50	COMB 1	1	40,789	319,711	4586,842	673,2429568	20,3945	No Armatura
50	50	COMB 1	1	40,789	319,711	4586,842	673,2429568	20,3945	No Armatura
50	51	COMB 1	1	40,789	323,588	4586,842	681,4056305	20,3945	No Armatura
51	51	COMB 1	1	40,789	323,588	4586,842	681,4056305	20,3945	No Armatura
51	52	COMB 1	1	40,789	327,990	4586,842	690,6751105	20,3945	No Armatura
53	54	COMB 1	1	45,224	295,609	4586,842	622,4876282	22,6121	No Armatura
53	54	COMB 1	1	66,938	296,100	4586,842	623,5221672	33,4691	No Armatura
54	54	COMB 1	1	37,764	292,903	4586,842	616,7899347	18,8818	No Armatura
54	55	COMB 1	1	60,035	293,723	4586,842	618,5169948	30,0174	No Armatura
55	55	COMB 1	1	30,426	291,354	4586,842	613,5278232	15,2131	No Armatura
55	56	COMB 1	1	53,196	292,194	4586,842	615,2976582	26,5979	No Armatura
56	56	COMB 1	1	23,369	290,398	4586,842	611,514634	11,6844	No Armatura
56	57	COMB 1	1	46,575	291,158	4586,842	613,1158663	23,2876	No Armatura
57	57	COMB 1	1	16,692	289,787	4586,842	610,228451	8,3461	No Armatura
57	58	COMB 1	1	40,274	290,433	4586,842	611,5900336	20,1369	No Armatura
58	58	COMB 1	1	10,448	289,395	4586,842	609,4027199	5,2241	No Armatura
58	59	COMB 1	1	34,341	289,918	4586,842	610,5046565	17,1703	No Armatura
59	59	COMB 1	1	4,638	289,151	4586,842	608,8887703	2,3191	No Armatura
59	60	COMB 1	1	28,778	289,549	4586,842	609,7285058	14,3962	No Armatura
60	60	COMB 1	1	0,783	289,013	4586,842	608,5984109	0,3513	No Armatura
60	61	COMB 1	1	23,641	289,280	4586,842	609,1791694	11,7	

Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu" kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm <sup>2</sup> /m <sup>2</sup>
1	1	COMB 2	1	12,254	349,299	4586,842	735,5482933	6,1271	No Armatura
1	2	COMB 2	1	7,336	349,412	4586,842	735,785105	3,668	No Armatura
2	2	COMB 2	1	26,643	349,644	4586,842	736,2747963	13,3217	No Armatura
2	3	COMB 2	1	2,201	350,561	4586,842	738,2059241	1,1004	No Armatura
3	3	COMB 2	1	39,452	351,118	4586,842	739,3795052	19,726	No Armatura
3	4	COMB 2	1	15,127	352,968	4586,842	743,2751955	7,5635	No Armatura
4	4	COMB 2	1	51,545	353,867	4586,842	745,1663983	25,7726	No Armatura
4	5	COMB 2	1	27,405	356,809	4586,842	751,3619606	13,7025	No Armatura
5	5	COMB 2	1	62,658	358,088	4586,842	754,0555757	31,3292	No Armatura
5	6	COMB 2	1	38,766	362,396	4586,842	763,1277655	19,383	No Armatura
6	6	COMB 2	1	72,472	364,118	4586,842	766,7529374	36,2362	No Armatura
6	7	COMB 2	1	46,891	370,228	4586,842	779,6209948	24,4454	No Armatura
7	7	COMB 2	1	80,604	372,482	4586,842	784,3669349	40,3018	No Armatura
7	8	COMB 2	1	57,306	381,076	4586,842	802,4669716	28,6979	No Armatura
8	8	COMB 2	1	86,604	383,992	4586,842	808,6046059	43,302	No Armatura
8	9	COMB 2	1	63,834	396,138	4586,842	834,1808747	31,9172	No Armatura
9	9	COMB 2	1	89,964	399,900	4586,842	842,1020985	44,982	No Armatura
9	10	COMB 2	1	67,893	417,270	4586,842	878,6797497	33,8464	No Armatura
10	10	COMB 2	1	90,119	422,150	4586,842	888,9556343	45,0597	No Armatura
10	11	COMB 2	1	68,405	447,366	4586,842	942,0564323	34,2027	No Armatura
12	12	COMB 2	1	582,959	362,521	4586,842	763,3911848	291,4793	9,117399565
12	13	COMB 2	1	582,959	414,444	4586,842	872,7289571	291,4793	9,117399565
13	13	COMB 2	1	269,900	414,444	4586,842	872,7289571	134,9502	No Armatura
13	14	COMB 2	1	269,900	475,086	4586,842	1000,429282	134,9502	No Armatura
14	14	COMB 2	1	72,852	475,086	4586,842	1000,429282	36,4259	No Armatura
14	15	COMB 2	1	72,852	450,999	4586,842	949,7056253	36,4259	No Armatura
15	15	COMB 2	1	440,682	450,999	4586,842	949,7056253	220,3411	No Armatura
15	16	COMB 2	1	440,682	381,886	4586,842	804,1696433	220,3411	6,89221447
16	16	COMB 2	1	201,222	383,441	4586,842	807,4435887	100,611	No Armatura
16	17	COMB 2	1	205,131	367,128	4586,842	773,0920464	102,5654	No Armatura
17	17	COMB 2	1	88,546	366,481	4586,842	771,7291339	44,2729	No Armatura
18	18	COMB 2	1	94,902	360,302	4586,842	758,7181407	47,4509	No Armatura
18	18	COMB 2	1	13,922	358,977	4586,842	755,9275748	6,9508	No Armatura
18	19	COMB 2	1	5,177	358,639	4586,842	752,6165115	2,5586	No Armatura
19	19	COMB 2	1	103,639	356,717	4586,842	751,1679132	51,8196	No Armatura
19	20	COMB 2	1	92,589	361,254	4586,842	760,723721	46,2945	No Armatura
20	20	COMB 2	1	178,896	358,693	4586,842	755,3305188	89,4481	No Armatura
20	21	COMB 2	1	165,641	369,075	4586,842	777,1924899	82,8205	No Armatura
21	21	COMB 2	1	238,858	365,712	4586,842	770,1107038	119,4291	No Armatura
21	22	COMB 2	1	223,521	385,902	4586,842	812,6255067	111,7606	No Armatura
22	22	COMB 2	1	283,149	381,316	4586,842	802,9699956	141,5743	No Armatura
22	23	COMB 2	1	265,873	424,924	4586,842	894,7988502	132,9363	No Armatura
23	23	COMB 2	1	311,903	417,959	4586,842	880,130703	155,9516	No Armatura
23	24	COMB 2	1	292,849	563,676	4586,842	1186,979739	146,4246	No Armatura
24	24	COMB 2	1	325,776	548,959	4586,842	1155,988777	162,8879	No Armatura
24	25	COMB 2	1	305,120	576,206	4586,842	1213,365803	152,5601	No Armatura
25	25	COMB 2	1	325,749	576,206	4586,842	1213,365803	162,8746	No Armatura
25	26	COMB 2	1	303,684	462,260	4586,842	973,4204775	151,8419	No Armatura
26	26	COMB 2	1	267,226	454,481	4586,842	957,0382956	133,6132	No Armatura
26	27	COMB 2	1	244,367	385,146	4586,842	811,0342541	122,1836	No Armatura
27	27	COMB 2	1	220,235	380,964	4586,842	802,2269067	110,1177	No Armatura
27	28	COMB 2	1	196,543	357,078	4586,842	751,928419	98,2716	No Armatura
28	28	COMB 2	1	189,678	354,262	4586,842	745,9894368	94,8391	No Armatura
28	29	COMB 2	1	165,113	342,336	4586,842	732,6178599	82,5586	No Armatura
28	29	COMB 2	1	151,749	340,417	4586,842	716,8446987	75,8744	No Armatura
29	30	COMB 2	1	126,525	333,831	4586,842	702,9755133	63,2825	No Armatura
30	30	COMB 2	1	108,139	332,710	4586,842	700,6155783	54,0894	No Armatura
30	31	COMB 2	1	82,471	329,154	4586,842	693,1274934	41,2356	No Armatura
31	31	COMB 2	1	60,599	328,588	4586,842	691,9359963	30,2995	No Armatura
31	32	COMB 2	1	34,709	327,050	4586,842	688,6958716	17,3544	No Armatura
32	32	COMB 2	1	10,874	326,975	4586,842	688,5382661	5,4369	No Armatura
32	33	COMB 2	1	15,016	327,081	4586,842	688,7608936	7,5082	No Armatura
33	33	COMB 2	1	39,145	327,467	4586,842	689,5747846	19,5727	No Armatura
33	34	COMB 2	1	64,813	329,257	4586,842	693,344596	32,4065	No Armatura
34	34	COMB 2	1	87,739	330,146	4586,842	695,2170445	43,8697	No Armatura
34	35	COMB 2	1	112,965	334,105	4586,842	703,5522558	56,4823	No Armatura
35	35	COMB 2	1	132,912	335,597	4586,842	706,6944345	66,4559	No Armatura
35	36	COMB 2	1	157,475	342,946	4586,842	722,1701355	78,7374	No Armatura
36	36	COMB 2	1	172,585	345,240	4586,842	727,0007728	86,2925	No Armatura
36	37	COMB 2	1	196,277	358,918	4586,842	755,8042965	98,1386	No Armatura
37	37	COMB 2	1	229,503	362,186	4586,842	762,6851205	114,7517	No Armatura
37	38	COMB 2	1	252,363	394,787	4586,842	831,3365996	126,1813	No Armatura
38	38	COMB 2	1	298,508	400,033	4586,842	842,3836565	149,254	No Armatura
38	39	COMB 2	1	320,575	538,119	4586,842	1033,161715	160,2874	No Armatura
39	39	COMB 2	1	310,422	563,314	4586,842	1128,150739	155,211	No Armatura
39	40	COMB 2	1	331,078	576,206	4586,842	1213,365803	165,5388	No Armatura
40	40	COMB 2	1	308,038	576,206	4586,842	1213,365803	154,0189	No Armatura
40	41	COMB 2	1	327,092	479,978	4586,842	1010,729229	163,5459	No Armatura
41	41	COMB 2	1	289,992	491,228	4586,842	1034,419033	144,9959	No Armatura
41	42	COMB 2	1	307,268	403,529	4586,842	849,7448361	153,6339	No Armatura
42	42	COMB 2	1	255,150	409,805	4586,842	862,9609005	127,575	No Armatura
42	43	COMB 2	1	270,496	376,958	4586,842	793,7909918	135,2428	No Armatura
43	43	COMB 2	1	203,132	381,262	4586,842	802,8548619	101,5658	No Armatura
43	44	COMB 2	1	216,387	365,223	4586,842	769,0811672	108,1934	No Armatura
44	44	COMB 2	1	134,060	368,385	4586,842	775,7392817	67,0299	No Armatura
44	45	COMB 2	1	145,110	360,562	4586,842	759,2654425	72,555	No Armatura
45	45	COMB 2	1	48,910	362,901	4586,842	764,1912973	24,4552	No Armatura
45	46	COMB 2	1	57,655	360,781	4586,842	759,7271488	28,8274	No Armatura
46	46	COMB 2	1	50,449	362,412	4586,842	763,1609131	25,2245	No Armatura
46	47	COMB 2	1	44,093	366,010	4586,842	770,7379654	22,0465	No Armatura
47	47	COMB 2	1	161,199	366,901	4586,842	772,614532	80,5994	No Armatura
47	48	COMB 2	1	157,290	378,945	4586,842	797,9763534	78,645	No Armatura
48	48	COMB 2	1	401,863	377,808	4586,842	795,5817488	200,9315	6,285087039
48	49	COMB 2	1	401,863	428,315	4586,842	901,9377651	200,9315	No Armatura
49	49	COMB 2	1	44,163	428,315	4586,842	901,9377651	22,0815	No Armatura
49	50	COMB 2	1	44,163	438,877	4586,842	924,389975	22,0815	No Armatura
50	50	COMB 2	1	291,444	438,877	4586,842	924,389975	145,7218	No Armatura
50	51	COMB 2	1	291,444	395,546	4586,842	832,9336831	145,7218	No Armatura
51	51	COMB 2	1	598,837	395,546	4586,842	832,9336831	299,4187	9,36574201
51	52	COMB 2	1	598,837	355,675	4586,842	748,9751132	299,4187	9,36574201
53	54	COMB 2	1	86,464	506,855	4586,842	1066,905794	43,232	No Armatura
53	54	COMB 2	1	108,178	453,999	4586,842	955,1817385	54,089	No Armatura
54	54	COMB 2	1	83,854	447,363	4586,842	942,0499058	41,9272	No Armatura
54	55	COMB 2	1	106,127	417,227	4586,842	878,5899091	53,0635	No Armatura
55	55	COMB 2	1	78,081	412,731	4586,842	869,1219041	39,0404	No Armatura
55	56	COMB 2	1	100,850	394,106	4586,842	829,9017253	50,4252	No Armatura
56	56	COMB 2	1	69,782	390,773	4586,842	822,8842331	34,8908	No Armatura
56	57	COMB 2	1	92,988	378,627	4586,842	797,3062552	46,494	No Armatura
57	57	COMB 2	1	59,543	376,129	4586,842	792,0452828	29,7717	No Armatura
57	58	COMB 2	1	83,125	367,945	4586,842	774,8133206	41,5625	No Armatura
58	58	COMB 2	1	47,880	366,079	4586,842	770,8825968	23,94	No Armatura
58	59	COMB 2	1	71,774	360,491	4586,842	759,1154981	35,8869	No Armatura
59	59	COMB 2	1	35,232	359,126	4586,842	756,2411387	17,6162	No Armatura
59	60	COMB 2	1	59,374	355,345	4586,842	748,2904886	29,887	No Armatura
60	60	COMB 2	1	21,967	354,397				

Frame	Joint	StepType	Height	Vsdu	Vrdu'	Vrdu"	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	Text	m	kN	kN	kN	kN	kN	cm' /m'
1	1	COMB 3	1	9,391	369,733	4586,842	778,5785883	4,6956	No Armatura
1	2	COMB 3	1	10,199	369,670	4586,842	778,4446236	5,0995	No Armatura
2	2	COMB 3	1	22,261	369,953	4586,842	779,0399783	11,1307	No Armatura
2	3	COMB 3	1	2,180	370,986	4586,842	781,2161592	1,0899	No Armatura
3	3	COMB 3	1	33,263	371,670	4586,842	782,6559908	16,6313	No Armatura
3	4	COMB 3	1	8,939	373,998	4586,842	787,5589531	4,4695	No Armatura
4	4	COMB 3	1	43,330	375,100	4586,842	789,8785979	21,665	No Armatura
4	5	COMB 3	1	19,188	378,883	4586,842	797,8460052	9,5942	No Armatura
5	5	COMB 3	1	52,114	380,447	4586,842	801,1393357	26,0568	No Armatura
5	6	COMB 3	1	28,221	385,961	4586,842	812,7502626	14,1106	No Armatura
6	6	COMB 3	1	59,228	388,054	4586,842	817,1582344	29,6142	No Armatura
6	7	COMB 3	1	35,847	395,705	4586,842	833,2694033	17,8234	No Armatura
7	7	COMB 3	1	64,246	408,422	4586,842	838,9806716	32,123	No Armatura
7	8	COMB 3	1	41,038	408,760	4586,842	860,750392	20,5191	No Armatura
8	8	COMB 3	1	66,696	412,227	4586,842	868,0605165	33,348	No Armatura
8	9	COMB 3	1	43,926	425,913	4586,842	896,8813516	21,9632	No Armatura
9	9	COMB 3	1	66,072	430,294	4586,842	906,1063441	33,0358	No Armatura
9	10	COMB 3	1	43,800	447,940	4586,842	943,2649539	21,9002	No Armatura
10	10	COMB 3	1	61,835	453,431	4586,842	954,8266986	30,9176	No Armatura
10	11	COMB 3	1	40,121	475,096	4586,842	1000,449986	20,0606	No Armatura
12	12	COMB 3	1	632,036	365,115	4586,842	768,8528549	316,0178	9,884957704
12	13	COMB 3	1	632,036	431,209	4586,842	908,0338997	316,0178	9,884957704
13	13	COMB 3	1	321,163	431,209	4586,842	908,0338997	160,5814	No Armatura
13	14	COMB 3	1	321,163	543,925	4586,842	1145,387573	160,5814	No Armatura
14	14	COMB 3	1	7,573	543,925	4586,842	1145,387573	3,7863	No Armatura
14	15	COMB 3	1	7,573	536,171	4586,842	1129,059677	3,7863	No Armatura
15	15	COMB 3	1	351,000	536,171	4586,842	1129,059677	175,4998	No Armatura
15	16	COMB 3	1	351,000	419,359	4586,842	883,0800102	175,4998	No Armatura
16	16	COMB 3	1	148,491	421,042	4586,842	886,6226047	74,2455	No Armatura
16	17	COMB 3	1	152,400	397,677	4586,842	837,4227689	76,1999	No Armatura
17	17	COMB 3	1	69,275	396,943	4586,842	835,8767532	34,6374	No Armatura
17	18	COMB 3	1	75,631	387,702	4586,842	816,4167781	37,8154	No Armatura
18	18	COMB 3	1	3,983	386,276	4586,842	813,4143668	1,9915	No Armatura
18	19	COMB 3	1	4,760	385,084	4586,842	810,903312	2,338	No Armatura
19	19	COMB 3	1	69,231	383,054	4586,842	806,6297785	34,6157	No Armatura
19	20	COMB 3	1	58,180	388,473	4586,842	818,0401726	29,0899	No Armatura
20	20	COMB 3	1	125,066	385,803	4586,842	812,4182486	62,5331	No Armatura
20	21	COMB 3	1	111,811	399,019	4586,842	840,2485277	55,9055	No Armatura
21	21	COMB 3	1	170,733	395,557	4586,842	832,9573335	85,3664	No Armatura
21	22	COMB 3	1	155,397	421,650	4586,842	887,9032103	77,6986	No Armatura
22	22	COMB 3	1	205,831	416,993	4586,842	878,097922	102,9154	No Armatura
22	23	COMB 3	1	188,555	473,075	4586,842	996,1939771	94,2774	No Armatura
23	23	COMB 3	1	230,325	466,149	4586,842	981,6083837	115,1626	No Armatura
23	24	COMB 3	1	211,271	576,206	4586,842	1213,365803	105,6356	No Armatura
24	24	COMB 3	1	244,552	576,206	4586,842	1213,365803	122,276	No Armatura
24	25	COMB 3	1	223,896	576,206	4586,842	1213,365803	111,9482	No Armatura
25	25	COMB 3	1	249,126	576,206	4586,842	1213,365803	124,5629	No Armatura
25	26	COMB 3	1	227,060	561,037	4586,842	1181,422259	113,5302	No Armatura
26	26	COMB 3	1	193,630	552,411	4586,842	1163,258849	96,8149	No Armatura
26	27	COMB 3	1	170,771	441,172	4586,842	929,0127602	85,3853	No Armatura
27	27	COMB 3	1	153,793	436,645	4586,842	919,478928	76,8964	No Armatura
27	28	COMB 3	1	130,101	399,456	4586,842	841,1671161	65,0503	No Armatura
28	28	COMB 3	1	135,806	396,413	4586,842	834,76332	67,9282	No Armatura
28	29	COMB 3	1	117,241	376,883	4586,842	793,5717537	56,6206	No Armatura
28	29	COMB 3	1	112,641	374,868	4586,842	789,3918821	56,3206	No Armatura
29	30	COMB 3	1	87,416	363,725	4586,842	765,926216	43,708	No Armatura
30	30	COMB 3	1	85,348	362,491	4586,842	763,326717	42,6741	No Armatura
30	31	COMB 3	1	59,681	356,144	4586,842	749,9615585	29,8403	No Armatura
31	31	COMB 3	1	55,051	355,503	4586,842	748,6118991	27,5254	No Armatura
31	32	COMB 3	1	29,159	352,351	4586,842	741,9760228	14,5796	No Armatura
32	32	COMB 3	1	22,848	352,223	4586,842	741,7056801	11,424	No Armatura
32	33	COMB 3	1	3,042	351,699	4586,842	740,3911955	1,5211	No Armatura
33	33	COMB 3	1	10,025	351,944	4586,842	741,1178046	5,0127	No Armatura
33	34	COMB 3	1	35,693	353,740	4586,842	744,8998165	17,8465	No Armatura
34	34	COMB 3	1	42,539	354,579	4586,842	746,6674116	21,2695	No Armatura
34	35	COMB 3	1	67,763	359,217	4586,842	756,4323963	33,8814	No Armatura
35	35	COMB 3	1	73,394	360,629	4586,842	759,407338	36,6968	No Armatura
35	36	COMB 3	1	97,958	369,259	4586,842	777,5789455	48,979	No Armatura
36	36	COMB 3	1	101,217	371,397	4586,842	782,082438	50,6086	No Armatura
36	37	COMB 3	1	124,909	386,602	4586,842	814,1005892	62,4547	No Armatura
37	37	COMB 3	1	151,780	389,613	4586,842	820,441212	75,8896	No Armatura
37	38	COMB 3	1	174,639	424,722	4586,842	894,3728967	87,3194	No Armatura
38	38	COMB 3	1	218,466	429,403	4586,842	904,2293096	109,2329	No Armatura
38	39	COMB 3	1	240,533	557,213	4586,842	1173,369305	120,2663	No Armatura
39	39	COMB 3	1	226,841	568,842	4586,842	1137,971737	113,6206	No Armatura
39	40	COMB 3	1	247,528	576,206	4586,842	1213,365803	123,7642	No Armatura
40	40	COMB 3	1	225,438	576,206	4586,842	1213,365803	112,7189	No Armatura
40	41	COMB 3	1	244,492	576,206	4586,842	1213,365803	122,2459	No Armatura
41	41	COMB 3	1	213,182	576,206	4586,842	1213,365803	106,5911	No Armatura
41	42	COMB 3	1	230,457	475,638	4586,842	1001,590155	115,2284	No Armatura
42	42	COMB 3	1	189,315	483,331	4586,842	1017,790991	94,6575	No Armatura
42	43	COMB 3	1	204,652	424,043	4586,842	892,9431574	102,326	No Armatura
43	43	COMB 3	1	153,628	429,108	4586,842	903,6076857	76,8138	No Armatura
43	44	COMB 3	1	166,883	401,899	4586,842	846,3115069	83,4414	No Armatura
44	44	COMB 3	1	106,282	405,557	4586,842	854,0511526	53,1412	No Armatura
44	45	COMB 3	1	117,334	392,237	4586,842	825,9658492	58,667	No Armatura
45	45	COMB 3	1	48,160	394,933	4586,842	831,6437529	24,06	No Armatura
45	46	COMB 3	1	56,904	390,249	4586,842	821,7810075	28,4522	No Armatura
46	46	COMB 3	1	19,188	392,154	4586,842	825,790892	9,5942	No Armatura
46	47	COMB 3	1	12,832	395,161	4586,842	832,123669	6,4162	No Armatura
47	47	COMB 3	1	93,493	396,276	4586,842	834,4711865	46,7467	No Armatura
47	48	COMB 3	1	89,583	409,331	4586,842	861,9626508	44,7916	No Armatura
48	48	COMB 3	1	293,686	408,370	4586,842	859,9381522	146,8432	No Armatura
48	49	COMB 3	1	293,686	474,183	4586,842	998,52718	146,8432	No Armatura
49	49	COMB 3	1	29,635	474,183	4586,842	998,52718	14,8176	No Armatura
49	50	COMB 3	1	29,635	466,803	4586,842	982,9864377	14,8176	No Armatura
50	50	COMB 3	1	344,641	466,803	4586,842	982,9864377	172,3204	No Armatura
50	51	COMB 3	1	344,641	401,815	4586,842	846,1344901	172,3204	No Armatura
51	51	COMB 3	1	646,316	401,815	4586,842	846,1344901	323,1578	10,10829512
51	52	COMB 3	1	646,316	355,929	4586,842	749,509623	323,1578	10,10829512
53	54	COMB 3	1	60,848	576,206	4586,842	1213,365803	30,4241	No Armatura
53	54	COMB 3	1	82,562	524,830	4586,842	1105,178282	41,2811	No Armatura
54	54	COMB 3	1	63,027	516,690	4586,842	1088,036738	31,5133	No Armatura
54	55	COMB 3	1	85,298	471,709	4586,842	993,3180754	42,6489	No Armatura
55	55	COMB 3	1	61,575	465,847	4586,842	980,9740037	30,7874	No Armatura
55	56	COMB 3	1	84,344	437,298	4586,842	920,8655701	42,1722	No Armatura
56	56	COMB 3	1	57,107	432,977	4586,842	911,7562742	28,5537	No Armatura
56	57	COMB 3	1	80,314	414,118	4586,842	872,0425866	40,1569	No Armatura
57	57	COMB 3	1	50,210	410,898	4586,842	865,2632093	25,1048	No Armatura
57	58	COMB 3	1	73,791	398,100	4586,842	838,3114433	36,8956	No Armatura
58	58	COMB 3	1	41,423	395,708	4586,842	833,2745842	20,7116	No Armatura
58	59	COMB 3	1	65,317	386,912	4586,842	814,7531702	32,6585	No Armatura
59	59	COMB 3	1	31,238	385,171	4586,842	811,087119	15,6191	No Armatura
59	60	COMB 3	1	55,380	379,166	4586,842	798,4424004	27,6899	No Armatura
60	60	COMB 3	1	20,083	377,960	4586,842	795,9332036		



Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu" kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm' / m'
1	1	COMB 4	1	44,608	465,899	4586,842	981,0827072	22,304	No Armatura
1	2	COMB 4	1	58,600	448,062	4586,842	943,5209417	29,3	No Armatura
2	2	COMB 4	1	36,253	448,990	4586,842	945,4753831	18,1265	No Armatura
2	3	COMB 4	1	53,712	432,995	4586,842	911,7934205	26,856	No Armatura
3	3	COMB 4	1	29,576	434,523	4586,842	915,0113723	14,788	No Armatura
3	4	COMB 4	1	46,950	422,935	4586,842	890,6094256	23,475	No Armatura
4	4	COMB 4	1	23,914	424,924	4586,842	894,7970457	11,957	No Armatura
4	5	COMB 4	1	41,158	416,111	4586,842	876,2402825	20,579	No Armatura
5	5	COMB 4	1	19,561	418,510	4586,842	881,2908722	9,7805	No Armatura
5	6	COMB 4	1	36,627	411,449	4586,842	866,4224511	18,3135	No Armatura
6	6	COMB 4	1	16,808	414,219	4586,842	872,256328	8,404	No Armatura
6	7	COMB 4	1	33,852	408,190	4586,842	859,5590333	18,826	No Armatura
7	7	COMB 4	1	15,952	411,297	4586,842	866,1018195	7,976	No Armatura
7	8	COMB 4	1	32,528	405,733	4586,842	854,3963804	16,264	No Armatura
8	8	COMB 4	1	17,300	409,137	4586,842	861,5534469	8,65	No Armatura
8	9	COMB 4	1	33,564	403,559	4586,842	849,8086987	16,782	No Armatura
9	9	COMB 4	1	21,175	407,208	4586,842	857,492994	10,5875	No Armatura
9	10	COMB 4	1	37,083	401,198	4586,842	844,8364771	18,5415	No Armatura
10	10	COMB 4	1	27,910	405,027	4586,842	852,9001961	13,955	No Armatura
10	11	COMB 4	1	43,420	398,238	4586,842	838,6039926	21,71	No Armatura
12	12	COMB 4	1	554,544	537,357	4586,842	1131,556796	277,272	8,672998776
12	13	COMB 4	1	554,544	576,206	4586,842	1213,365803	277,272	No Armatura
13	13	COMB 4	1	271,199	576,206	4586,842	1213,365803	135,5995	No Armatura
13	14	COMB 4	1	271,199	576,206	4586,842	1213,365803	135,5995	No Armatura
14	14	COMB 4	1	53,907	576,206	4586,842	1213,365803	26,9535	No Armatura
14	15	COMB 4	1	53,907	576,206	4586,842	1213,365803	26,9535	No Armatura
15	15	COMB 4	1	424,994	576,206	4586,842	1213,365803	212,497	No Armatura
15	16	COMB 4	1	424,994	576,206	4586,842	1213,365803	212,497	No Armatura
16	16	COMB 4	1	257,214	576,206	4586,842	1213,365803	128,607	No Armatura
16	17	COMB 4	1	260,007	576,206	4586,842	1213,365803	130,0035	No Armatura
17	17	COMB 4	1	187,101	576,206	4586,842	1213,365803	93,5505	No Armatura
17	18	COMB 4	1	191,641	483,007	4586,842	1017,109108	95,8205	No Armatura
18	18	COMB 4	1	122,932	481,511	4586,842	1013,358958	61,866	No Armatura
18	19	COMB 4	1	129,177	444,153	4586,842	937,365803	64,5585	No Armatura
19	19	COMB 4	1	65,805	442,064	4586,842	930,8902527	32,9025	No Armatura
19	20	COMB 4	1	73,699	426,351	4586,842	897,8037018	36,8495	No Armatura
20	20	COMB 4	1	16,088	423,893	4586,842	892,6274944	8,044	No Armatura
20	21	COMB 4	1	25,556	418,904	4586,842	882,1207538	12,778	No Armatura
21	21	COMB 4	1	26,474	416,166	4586,842	876,355622	13,237	No Armatura
21	22	COMB 4	1	15,520	418,454	4586,842	881,173016	7,76	No Armatura
22	22	COMB 4	1	62,429	415,440	4586,842	874,82615	31,2145	No Armatura
22	23	COMB 4	1	50,089	424,445	4586,842	893,788857	25,0445	No Armatura
23	23	COMB 4	1	92,504	421,102	4586,842	886,7497993	46,252	No Armatura
23	24	COMB 4	1	78,894	438,440	4586,842	923,2599964	39,447	No Armatura
24	24	COMB 4	1	117,514	434,644	4586,842	915,2669843	58,757	No Armatura
24	25	COMB 4	1	102,760	465,454	4586,842	980,1449291	51,38	No Armatura
25	25	COMB 4	1	138,200	460,934	4586,842	970,626279	69,1	No Armatura
25	26	COMB 4	1	122,439	520,105	4586,842	1095,229128	61,2195	No Armatura
26	26	COMB 4	1	109,378	515,263	4586,842	1085,033091	54,689	No Armatura
26	27	COMB 4	1	93,050	576,206	4586,842	1213,365803	46,525	No Armatura
27	27	COMB 4	1	96,800	576,206	4586,842	1213,365803	48,4	No Armatura
27	28	COMB 4	1	79,877	576,206	4586,842	1213,365803	39,9385	No Armatura
28	28	COMB 4	1	108,605	576,206	4586,842	1213,365803	53,3025	No Armatura
28	29	COMB 4	1	89,060	576,206	4586,842	1213,365803	64,553	No Armatura
28	29	COMB 4	1	114,110	576,206	4586,842	1213,365803	57,055	No Armatura
29	30	COMB 4	1	96,093	576,206	4586,842	1213,365803	48,0465	No Armatura
30	30	COMB 4	1	119,234	576,206	4586,842	1213,365803	59,617	No Armatura
30	31	COMB 4	1	100,900	576,206	4586,842	1213,365803	50,45	No Armatura
31	31	COMB 4	1	121,786	576,206	4586,842	1213,365803	60,893	No Armatura
31	32	COMB 4	1	103,292	576,206	4586,842	1213,365803	51,646	No Armatura
32	32	COMB 4	1	121,545	576,206	4586,842	1213,365803	60,7725	No Armatura
32	33	COMB 4	1	103,051	494,940	4586,842	1042,23743	51,5255	No Armatura
33	33	COMB 4	1	118,056	492,054	4586,842	1036,159123	59,028	No Armatura
33	34	COMB 4	1	99,722	444,787	4586,842	936,6244084	49,861	No Armatura
34	34	COMB 4	1	110,493	442,702	4586,842	932,2345389	55,2465	No Armatura
34	35	COMB 4	1	92,476	415,556	4586,842	875,0713254	46,238	No Armatura
35	35	COMB 4	1	98,393	414,061	4586,842	871,9220163	49,1965	No Armatura
35	36	COMB 4	1	80,847	397,472	4586,842	836,9910062	40,4235	No Armatura
36	36	COMB 4	1	81,536	396,475	4586,842	834,890157	40,768	No Armatura
36	37	COMB 4	1	64,613	386,300	4586,842	813,4646077	32,3065	No Armatura
37	37	COMB 4	1	39,280	385,930	4586,842	812,6844052	19,64	No Armatura
37	38	COMB 4	1	22,952	382,676	4586,842	805,8320997	11,476	No Armatura
38	38	COMB 4	1	21,488	382,684	4586,842	806,2277731	10,744	No Armatura
38	39	COMB 4	1	37,250	387,524	4586,842	809,0153677	44,6615	No Armatura
39	49	COMB 4	1	45,792	388,358	4586,842	817,7382502	22,866	No Armatura
39	40	COMB 4	1	60,546	397,275	4586,842	836,5756117	30,273	No Armatura
40	40	COMB 4	1	71,360	398,750	4586,842	839,88055	35,68	No Armatura
40	41	COMB 4	1	84,970	414,496	4586,842	872,8386018	42,485	No Armatura
41	41	COMB 4	1	96,885	416,831	4586,842	877,7552924	48,4425	No Armatura
41	42	COMB 4	1	109,224	445,273	4586,842	937,6484887	54,612	No Armatura
42	42	COMB 4	1	120,799	448,837	4586,842	945,1532679	60,3995	No Armatura
42	43	COMB 4	1	131,753	506,060	4586,842	1065,653728	65,8765	No Armatura
43	43	COMB 4	1	141,705	511,683	4586,842	1077,49345	70,8525	No Armatura
43	44	COMB 4	1	151,173	576,206	4586,842	1213,365803	75,5865	No Armatura
44	44	COMB 4	1	158,328	576,206	4586,842	1213,365803	79,164	No Armatura
44	45	COMB 4	1	166,221	576,206	4586,842	1213,365803	83,1105	No Armatura
45	45	COMB 4	1	169,851	576,206	4586,842	1213,365803	84,9255	No Armatura
45	46	COMB 4	1	176,096	576,206	4586,842	1213,365803	88,048	No Armatura
46	46	COMB 4	1	175,972	576,206	4586,842	1213,365803	87,986	No Armatura
46	47	COMB 4	1	180,512	576,206	4586,842	1213,365803	90,256	No Armatura
47	47	COMB 4	1	177,023	576,206	4586,842	1213,365803	88,5115	No Armatura
47	48	COMB 4	1	179,816	497,848	4586,842	1048,359611	89,908	No Armatura
48	48	COMB 4	1	89,323	501,870	4586,842	1056,829309	44,6615	No Armatura
48	49	COMB 4	1	89,323	469,666	4586,842	989,0153677	44,6615	No Armatura
49	49	COMB 4	1	234,144	469,997	4586,842	989,7111815	117,072	No Armatura
49	50	COMB 4	1	234,144	417,592	4586,842	879,3583039	117,072	No Armatura
50	50	COMB 4	1	383,645	417,824	4586,842	879,8478347	191,8225	No Armatura
50	51	COMB 4	1	383,645	376,436	4586,842	792,6931577	191,8225	6,000159799
51	51	COMB 4	1	537,836	376,593	4586,842	793,0226408	268,918	8,411687746
51	52	COMB 4	1	537,836	349,483	4586,842	735,9351004	268,918	8,411687746
53	54	COMB 4	1	76,036	459,622	4586,842	967,8643017	38,018	No Armatura
53	54	COMB 4	1	91,546	503,131	4586,842	1059,485987	45,773	No Armatura
54	54	COMB 4	1	82,069	497,124	4586,842	1046,836564	41,0345	No Armatura
54	55	COMB 4	1	97,978	573,456	4586,842	1207,574754	48,989	No Armatura
55	55	COMB 4	1	84,707	565,994	4586,842	1191,860074	42,3535	No Armatura
55	56	COMB 4	1	100,971	576,206	4586,842	1213,365803	50,4855	No Armatura
56	56	COMB 4	1	84,418	576,206	4586,842	1213,365803	42,209	No Armatura
56	57	COMB 4	1	100,994	576,206	4586,842	1213,365803	50,497	No Armatura
57	57	COMB 4	1	81,695	576,206	4586,842	1213,365803	40,8475	No Armatura
57	58	COMB 4	1	98,538	576,206	4586,842	1213,365803	49,269	No Armatura
58	58	COMB 4	1	77,032	576,206	4586,842	1213,365803	38,516	No Armatura
58	59	COMB 4	1	94,098	576,206	4586,842	1213,365803	47,049	No Armatura
59	59	COMB 4	1	70,912	576,206	4586,842	1213,365803	35,456	No Armatura
59	60	COMB 4	1	88,156	576,206	4586,842	1213,365803	44,078	No Armatura
60	60	COMB 4	1	63,798	576,206	4586,842	1213,365803	31,898	No Armatura
60	61	COMB 4	1	81,170	542,512	4586,842	1142,413693		

Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu'' kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm <sup>2</sup> /m <sup>2</sup>
1	1	COMB 5	1	51,870	435,858	4586,842	917,8233677	25,935	No Armatura
1	2	COMB 5	1	37,877	449,277	4586,842	946,0806709	18,9385	No Armatura
2	2	COMB 5	1	61,143	449,347	4586,842	946,2270721	30,5715	No Armatura
2	3	COMB 5	1	43,684	473,872	4586,842	997,8715496	21,842	No Armatura
3	3	COMB 5	1	69,078	474,752	4586,842	999,7246115	34,539	No Armatura
3	4	COMB 5	1	51,704	514,370	4586,842	1083,151551	25,852	No Armatura
4	4	COMB 5	1	76,244	516,445	4586,842	1087,520705	38,122	No Armatura
4	5	COMB 5	1	59,001	576,206	4586,842	1213,365803	29,5005	No Armatura
5	5	COMB 5	1	82,280	576,206	4586,842	1213,365803	41,14	No Armatura
5	6	COMB 5	1	65,213	576,206	4586,842	1213,365803	32,6065	No Armatura
6	6	COMB 5	1	86,799	576,206	4586,842	1213,365803	43,3995	No Armatura
6	7	COMB 5	1	89,955	576,206	4586,842	1213,365803	34,9775	No Armatura
7	7	COMB 5	1	89,396	576,206	4586,842	1213,365803	44,698	No Armatura
7	8	COMB 5	1	72,820	576,206	4586,842	1213,365803	36,41	No Armatura
8	8	COMB 5	1	89,649	576,206	4586,842	1213,365803	44,8245	No Armatura
8	9	COMB 5	1	73,385	576,206	4586,842	1213,365803	36,6925	No Armatura
9	9	COMB 5	1	87,135	576,206	4586,842	1213,365803	43,5675	No Armatura
9	10	COMB 5	1	71,227	576,206	4586,842	1213,365803	35,6135	No Armatura
10	10	COMB 5	1	81,446	576,206	4586,842	1213,365803	40,723	No Armatura
10	11	COMB 5	1	65,936	564,051	4586,842	1187,768841	32,968	No Armatura
12	12	COMB 5	1	476,091	354,341	4586,842	746,1656834	238,0455	7,446003672
12	13	COMB 5	1	476,091	382,929	4586,842	806,3646919	238,0455	7,446003672
13	13	COMB 5	1	328,766	382,756	4586,842	806,0003351	164,383	No Armatura
13	14	COMB 5	1	328,766	423,607	4586,842	892,0250062	164,383	No Armatura
14	14	COMB 5	1	186,131	423,356	4586,842	891,4970848	93,0655	No Armatura
14	15	COMB 5	1	186,131	467,247	4586,842	983,921593	93,0655	No Armatura
15	15	COMB 5	1	48,176	466,911	4586,842	983,2137789	24,088	No Armatura
15	16	COMB 5	1	48,176	481,797	4586,842	1014,559607	24,088	No Armatura
16	16	COMB 5	1	138,581	478,943	4586,842	1008,549602	69,2905	No Armatura
16	17	COMB 5	1	135,788	548,117	4586,842	1154,215026	67,894	No Armatura
17	17	COMB 5	1	142,696	543,196	4586,842	1143,853656	71,348	No Armatura
18	18	COMB 5	1	138,156	576,206	4586,842	1213,365803	69,078	No Armatura
18	18	COMB 5	1	142,704	576,206	4586,842	1213,365803	71,352	No Armatura
18	19	COMB 5	1	136,438	576,206	4586,842	1213,365803	68,229	No Armatura
19	19	COMB 5	1	138,353	576,206	4586,842	1213,365803	69,1765	No Armatura
19	20	COMB 5	1	130,460	576,206	4586,842	1213,365803	65,23	No Armatura
20	20	COMB 5	1	129,931	576,206	4586,842	1213,365803	64,9655	No Armatura
20	21	COMB 5	1	120,463	576,206	4586,842	1213,365803	60,2315	No Armatura
21	21	COMB 5	1	118,192	576,206	4586,842	1213,365803	59,096	No Armatura
21	22	COMB 5	1	107,238	560,104	4586,842	1179,458792	53,619	No Armatura
22	22	COMB 5	1	104,092	554,941	4586,842	1168,586541	52,046	No Armatura
22	23	COMB 5	1	91,753	485,458	4586,842	1022,270143	45,8765	No Armatura
23	23	COMB 5	1	88,719	482,335	4586,842	1015,692969	44,3595	No Armatura
23	24	COMB 5	1	75,110	446,816	4586,842	940,8968801	37,555	No Armatura
24	24	COMB 5	1	73,219	444,882	4586,842	936,8249407	36,6095	No Armatura
24	25	COMB 5	1	58,465	424,297	4586,842	893,4777841	29,2325	No Armatura
25	25	COMB 5	1	58,585	423,150	4586,842	891,0620132	29,2925	No Armatura
25	26	COMB 5	1	42,823	410,420	4586,842	864,2567711	21,4115	No Armatura
26	26	COMB 5	1	6,367	410,098	4586,842	863,577513	3,1835	No Armatura
26	27	COMB 5	1	9,961	409,505	4586,842	862,3289321	4,9805	No Armatura
27	27	COMB 5	1	28,456	409,726	4586,842	862,7905026	14,228	No Armatura
27	28	COMB 5	1	45,379	417,023	4586,842	878,1596163	22,6895	No Armatura
28	28	COMB 5	1	39,426	417,761	4586,842	879,7145338	19,713	No Armatura
28	29	COMB 5	1	56,972	429,483	4586,842	904,3883449	28,486	No Armatura
28	29	COMB 5	1	47,635	430,582	4586,842	906,7125256	23,8175	No Armatura
29	30	COMB 5	1	65,652	448,144	4586,842	943,6952183	32,826	No Armatura
30	30	COMB 5	1	53,442	449,618	4586,842	946,7942324	26,721	No Armatura
30	31	COMB 5	1	71,776	475,706	4586,842	1001,733822	35,888	No Armatura
31	31	COMB 5	1	57,422	477,603	4586,842	1005,728653	28,711	No Armatura
31	32	COMB 5	1	75,915	517,591	4586,842	1089,934556	37,9575	No Armatura
32	32	COMB 5	1	60,277	520,042	4586,842	1095,095168	30,1385	No Armatura
32	33	COMB 5	1	78,770	576,206	4586,842	1213,365803	39,385	No Armatura
33	33	COMB 5	1	62,378	576,206	4586,842	1213,365803	31,189	No Armatura
33	34	COMB 5	1	80,712	576,206	4586,842	1213,365803	40,356	No Armatura
34	34	COMB 5	1	63,892	576,206	4586,842	1213,365803	31,946	No Armatura
34	35	COMB 5	1	81,909	576,206	4586,842	1213,365803	40,9545	No Armatura
35	35	COMB 5	1	64,729	576,206	4586,842	1213,365803	32,3645	No Armatura
35	36	COMB 5	1	82,275	576,206	4586,842	1213,365803	41,1375	No Armatura
36	36	COMB 5	1	64,671	576,206	4586,842	1213,365803	32,3355	No Armatura
36	37	COMB 5	1	81,594	576,206	4586,842	1213,365803	40,797	No Armatura
37	37	COMB 5	1	87,009	576,206	4586,842	1213,365803	43,5045	No Armatura
37	38	COMB 5	1	103,337	576,206	4586,842	1213,365803	51,6685	No Armatura
38	38	COMB 5	1	125,594	576,206	4586,842	1213,365803	62,797	No Armatura
38	39	COMB 5	1	141,355	576,206	4586,842	1213,365803	70,6775	No Armatura
39	39	COMB 5	1	116,483	576,206	4586,842	1213,365803	59,2415	No Armatura
39	40	COMB 5	1	131,237	507,670	4586,842	1069,043716	65,6185	No Armatura
40	40	COMB 5	1	102,510	514,549	4586,842	1083,528632	51,255	No Armatura
40	41	COMB 5	1	116,120	467,414	4586,842	984,2736189	58,06	No Armatura
41	41	COMB 5	1	82,657	473,024	4586,842	986,0862332	41,3285	No Armatura
41	42	COMB 5	1	94,996	446,997	4586,842	941,2797874	47,498	No Armatura
42	42	COMB 5	1	55,786	451,789	4586,842	951,3695155	27,893	No Armatura
42	43	COMB 5	1	66,741	438,020	4586,842	922,3743375	33,3705	No Armatura
43	43	COMB 5	1	21,020	442,201	4586,842	931,1793467	10,51	No Armatura
43	44	COMB 5	1	30,488	437,905	4586,842	922,1340188	15,244	No Armatura
44	44	COMB 5	1	22,316	441,544	4586,842	929,795967	11,158	No Armatura
44	45	COMB 5	1	14,422	447,412	4586,842	942,1519462	7,211	No Armatura
45	45	COMB 5	1	74,324	450,488	4586,842	948,6312109	37,162	No Armatura
45	46	COMB 5	1	68,079	471,849	4586,842	993,611978	34,0395	No Armatura
46	46	COMB 5	1	134,461	474,227	4586,842	998,6201506	67,2305	No Armatura
46	47	COMB 5	1	129,921	530,002	4586,842	1116,070344	64,9605	No Armatura
47	47	COMB 5	1	201,394	531,235	4586,842	1118,665078	100,697	No Armatura
47	48	COMB 5	1	198,602	576,206	4586,842	1213,365803	99,301	No Armatura
48	48	COMB 5	1	368,230	576,206	4586,842	1213,365803	184,115	No Armatura
48	49	COMB 5	1	368,230	576,206	4586,842	1213,365803	184,115	No Armatura
49	49	COMB 5	1	21,598	576,206	4586,842	1213,365803	10,799	No Armatura
49	50	COMB 5	1	21,598	576,206	4586,842	1213,365803	10,799	No Armatura
50	50	COMB 5	1	284,947	576,206	4586,842	1213,365803	142,4735	No Armatura
50	51	COMB 5	1	284,947	576,206	4586,842	1213,365803	142,4735	No Armatura
51	51	COMB 5	1	553,220	576,206	4586,842	1213,365803	276,61	No Armatura
51	52	COMB 5	1	553,220	452,533	4586,842	952,936337	276,61	8,652291582
53	54	COMB 5	1	11,600	426,129	4586,842	897,3360516	5,8	No Armatura
53	54	COMB 5	1	3,910	428,139	4586,842	901,568921	1,955	No Armatura
54	54	COMB 5	1	7,965	423,168	4586,842	891,0995664	3,9825	No Armatura
54	55	COMB 5	1	7,943	424,096	4586,842	893,0535067	3,9715	No Armatura
55	55	COMB 5	1	7,132	419,577	4586,842	883,5384613	3,566	No Armatura
55	56	COMB 5	1	9,132	420,152	4586,842	884,7492731	4,566	No Armatura
56	56	COMB 5	1	8,685	416,125	4586,842	876,2688579	4,3425	No Armatura
56	57	COMB 5	1	7,891	416,929	4586,842	877,9628187	3,9455	No Armatura
57	57	COMB 5	1	12,228	413,405	4586,842	870,5415197	6,114	No Armatura
57	58	COMB 5	1	4,616	414,898	4586,842	873,6850664	2,308	No Armatura
58	58	COMB 5	1	17,392	411,875	4586,842	867,318768	8,696	No Armatura
58	59	COMB 5	1	0,326	414,451	4586,842	872,744395	0,163	No Armatura
59	59	COMB 5	1	23,836	411,923	4586,842	867,4207373	11,918	No Armatura
59	60	COMB 5	1	6,593	415,991	4586,842	875,9679822	3,2965	No Armatura
60	60	COMB 5	1	31,238	413,957	4586,842	871,7048666	15,919	No Armatura
60	61	COMB 5	1	13,864	420,033	4586,842	884,4980782	6,932	No Armatura

Frame	Joint	StepType	Height	Vsdu	Vrdu'	Vrdu"	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	Text	m	kN	kN	kN	kN	kN	cm' / m'
1	1	COMB 6	1	53.213	576.206	4586.842	1213.365803	26.6065	No Armatura
1	2	COMB 6	1	67.206	576.206	4586.842	1213.365803	33.603	No Armatura
2	2	COMB 6	1	52.461	576.206	4586.842	1213.365803	26.2305	No Armatura
2	3	COMB 6	1	69.920	576.206	4586.842	1213.365803	34.96	No Armatura
3	3	COMB 6	1	54.428	576.206	4586.842	1213.365803	27.214	No Armatura
3	4	COMB 6	1	71.802	576.206	4586.842	1213.365803	35.901	No Armatura
4	4	COMB 6	1	57.712	576.206	4586.842	1213.365803	28.856	No Armatura
4	5	COMB 6	1	74.955	576.206	4586.842	1213.365803	37.4775	No Armatura
5	5	COMB 6	1	62.695	576.206	4586.842	1213.365803	31.3475	No Armatura
5	6	COMB 6	1	79.762	576.206	4586.842	1213.365803	39.881	No Armatura
6	6	COMB 6	1	69.713	576.206	4586.842	1213.365803	34.8565	No Armatura
6	7	COMB 6	1	86.557	552.314	4586.842	1163.053967	43.2785	No Armatura
7	7	COMB 6	1	79.047	457.543	4586.842	1174.064807	39.5235	No Armatura
7	8	COMB 6	1	95.623	489.345	4586.842	1030.454385	47.8115	No Armatura
8	8	COMB 6	1	90.827	493.724	4586.842	1039.675907	45.4635	No Armatura
8	9	COMB 6	1	107.191	447.450	4586.842	942.2333752	53.5955	No Armatura
9	9	COMB 6	1	105.534	451.174	4586.842	950.0742627	52.767	No Armatura
9	10	COMB 6	1	121.443	417.428	4586.842	879.0133976	60.7215	No Armatura
10	10	COMB 6	1	123.005	420.612	4586.842	885.7181139	61.5025	No Armatura
10	11	COMB 6	1	138.515	394.844	4586.842	831.4566689	69.2575	No Armatura
12	12	COMB 6	1	518.362	576.206	4586.842	1213.365803	259.181	No Armatura
12	13	COMB 6	1	518.362	420.083	4586.842	884.6042257	259.181	8,107116823
13	13	COMB 6	1	252.956	420.372	4586.842	885.2132037	126.478	No Armatura
13	14	COMB 6	1	252.956	381.335	4586.842	803.0090735	126.478	No Armatura
14	14	COMB 6	1	38.118	381.542	4586.842	803.4445457	19.059	No Armatura
14	15	COMB 6	1	38.118	384.321	4586.842	809.2960229	19.059	No Armatura
15	15	COMB 6	1	364.155	384.637	4586.842	809.7510298	182.0775	No Armatura
15	16	COMB 6	1	364.155	454.386	4586.842	956.8386271	182.0775	No Armatura
16	16	COMB 6	1	252.529	460.348	4586.842	969.3933972	126.2645	No Armatura
16	17	COMB 6	1	255.321	576.206	4586.842	1213.365803	127.6605	No Armatura
17	17	COMB 6	1	212.250	576.206	4586.842	1213.365803	106.125	No Armatura
17	18	COMB 6	1	216.790	576.206	4586.842	1213.365803	108.395	No Armatura
18	18	COMB 6	1	174.281	576.206	4586.842	1213.365803	87.1495	No Armatura
18	19	COMB 6	1	180.527	576.206	4586.842	1213.365803	90.2635	No Armatura
19	19	COMB 6	1	139.198	576.206	4586.842	1213.365803	69.599	No Armatura
19	20	COMB 6	1	147.091	554.360	4586.842	1167.363221	73.5455	No Armatura
20	20	COMB 6	1	107.050	554.101	4586.842	1166.817472	53.525	No Armatura
20	21	COMB 6	1	116.517	479.927	4586.842	1010.622896	58.2585	No Armatura
21	21	COMB 6	1	77.398	479.392	4586.842	1009.496681	38.699	No Armatura
21	22	COMB 6	1	88.353	445.592	4586.842	938.3200543	44.1765	No Armatura
22	22	COMB 6	1	49.657	444.954	4586.842	936.9775004	24.8285	No Armatura
22	23	COMB 6	1	61.996	427.517	4586.842	900.2576153	30.998	No Armatura
23	23	COMB 6	1	23.177	426.821	4586.842	898.7929156	11.5885	No Armatura
23	24	COMB 6	1	36.787	418.298	4586.842	880.8455199	18.3935	No Armatura
24	24	COMB 6	1	2.664	417.536	4586.842	879.240077	1.332	No Armatura
24	25	COMB 6	1	12.090	415.266	4586.842	874.4600211	6.045	No Armatura
25	25	COMB 6	1	28.298	414.390	4586.842	872.6148594	14.149	No Armatura
25	26	COMB 6	1	12.537	417.822	4586.842	879.8426643	6.2685	No Armatura
26	26	COMB 6	1	13.848	417.028	4586.842	878.170929	6.924	No Armatura
26	27	COMB 6	1	2.479	417.324	4586.842	878.7949865	1.2395	No Armatura
27	27	COMB 6	1	15.249	416.650	4586.842	877.3747841	7.6245	No Armatura
27	28	COMB 6	1	1.675	417.345	4586.842	878.8373886	0.8375	No Armatura
28	28	COMB 6	1	38.438	416.562	4586.842	877.1995785	19.219	No Armatura
28	29	COMB 6	1	20.893	423.084	4586.842	890.9229631	10.4465	No Armatura
28	29	COMB 6	1	61.551	422.000	4586.842	888.6415379	30.7755	No Armatura
29	30	COMB 6	1	43.533	436.289	4586.842	918.729732	21.7665	No Armatura
30	30	COMB 6	1	83.930	434.775	4586.842	915.5414367	41.965	No Armatura
30	31	COMB 6	1	65.596	461.888	4586.842	972.6356334	32.798	No Armatura
31	31	COMB 6	1	104.870	459.718	4586.842	968.0658822	52.435	No Armatura
31	32	COMB 6	1	86.377	513.752	4586.842	1081.849929	43.1885	No Armatura
32	32	COMB 6	1	123.570	510.519	4586.842	1075.043391	61.785	No Armatura
32	33	COMB 6	1	105.077	576.206	4586.842	1213.365803	52.5385	No Armatura
33	33	COMB 6	1	139.109	576.206	4586.842	1213.365803	69.5545	No Armatura
33	34	COMB 6	1	120.775	576.206	4586.842	1213.365803	60.3875	No Armatura
34	34	COMB 6	1	150.237	576.206	4586.842	1213.365803	75.1185	No Armatura
34	35	COMB 6	1	132.220	576.206	4586.842	1213.365803	66.11	No Armatura
35	35	COMB 6	1	156.010	576.206	4586.842	1213.365803	78.005	No Armatura
35	36	COMB 6	1	138.465	566.146	4586.842	1192.179989	69.2325	No Armatura
36	36	COMB 6	1	155.716	559.077	4586.842	1177.294424	77.858	No Armatura
36	37	COMB 6	1	138.793	454.613	4586.842	957.3157278	69.3965	No Armatura
37	37	COMB 6	1	131.145	450.945	4586.842	949.5934417	65.5725	No Armatura
37	38	COMB 6	1	114.817	412.041	4586.842	867.6682316	57.4085	No Armatura
38	38	COMB 6	1	88.775	409.853	4586.842	863.0617573	44.3875	No Armatura
38	39	COMB 6	1	73.014	393.991	4586.842	829.608584	36.507	No Armatura
39	39	COMB 6	1	74.259	393.084	4586.842	825.137321	37.1495	No Armatura
39	40	COMB 6	1	59.545	382.506	4586.842	805.574455	29.7725	No Armatura
40	40	COMB 6	1	54.508	381.144	4586.842	802.609368	27.254	No Armatura
40	41	COMB 6	1	40.899	375.935	4586.842	791.6380952	20.4495	No Armatura
41	41	COMB 6	1	30.045	375.042	4586.842	789.7566461	15.0225	No Armatura
41	42	COMB 6	1	17.706	373.401	4586.842	786.3017081	8.853	No Armatura
42	42	COMB 6	1	1.909	372.947	4586.842	785.3460881	0.9545	No Armatura
42	43	COMB 6	1	9.046	374.721	4586.842	789.0817934	4.523	No Armatura
43	43	COMB 6	1	28.916	374.705	4586.842	789.0474736	14.458	No Armatura
43	44	COMB 6	1	38.384	380.486	4586.842	801.2212863	19.192	No Armatura
44	44	COMB 6	1	61.334	380.916	4586.842	802.1257838	30.667	No Armatura
44	45	COMB 6	1	69.227	392.491	4586.842	826.501193	34.6135	No Armatura
45	45	COMB 6	1	94.402	393.415	4586.842	828.447535	47.201	No Armatura
45	46	COMB 6	1	100.648	415.352	4586.842	874.6410887	50.324	No Armatura
46	46	COMB 6	1	127.371	416.903	4586.842	877.9071989	63.6855	No Armatura
46	47	COMB 6	1	131.911	462.694	4586.842	974.3332929	65.9555	No Armatura
47	47	COMB 6	1	159.729	465.203	4586.842	979.6178371	79.8645	No Armatura
47	48	COMB 6	1	162.522	576.206	4586.842	1213.365803	81.261	No Armatura
48	48	COMB 6	1	130.848	576.206	4586.842	1213.365803	65.324	No Armatura
48	49	COMB 6	1	130.648	576.206	4586.842	1213.365803	65.324	No Armatura
49	49	COMB 6	1	289.567	576.206	4586.842	1213.365803	134.7835	No Armatura
49	50	COMB 6	1	289.567	576.206	4586.842	1213.365803	134.7835	No Armatura
50	50	COMB 6	1	413.166	576.206	4586.842	1213.365803	206.583	No Armatura
50	51	COMB 6	1	413.166	416.068	4586.842	876.1484399	206.583	No Armatura
51	51	COMB 6	1	561.455	415.754	4586.842	875.4871387	280.7275	8.781085951
51	52	COMB 6	1	561.455	354.267	4586.842	746.0104157	280.7275	8.781085951
53	54	COMB 6	1	11.728	424.057	4586.842	892.9728816	5.864	No Armatura
53	54	COMB 6	1	3.782	424.087	4586.842	893.0354449	1.891	No Armatura
54	54	COMB 6	1	5.820	421.550	4586.842	887.6931596	2.91	No Armatura
54	55	COMB 6	1	21.729	426.120	4586.842	897.3160299	10.8645	No Armatura
55	55	COMB 6	1	19.835	423.626	4586.842	892.0645544	9.9175	No Armatura
55	56	COMB 6	1	36.099	432.378	4586.842	910.493965	16.0495	No Armatura
56	56	COMB 6	1	30.595	429.938	4586.842	905.3569872	15.2975	No Armatura
56	57	COMB 6	1	47.172	443.202	4586.842	933.2869863	23.586	No Armatura
57	57	COMB 6	1	38.465	440.845	4586.842	928.3242079	19.2325	No Armatura
57	58	COMB 6	1	55.308	459.660	4586.842	967.9449324	27.654	No Armatura
58	58	COMB 6	1	43.875	457.435	4586.842	963.2585552	21.9375	No Armatura
58	59	COMB 6	1	60.942	483.887	4586.842	1018.962092	30.471	No Armatura
59	59	COMB 6	1	47.310	481.870	4586.842	1014.714287	23.655	No Armatura
59	60	COMB 6	1	64.554	520.002	4586.842	1095.012331	32.277	No Armatura
60	60	COMB 6	1	49.286	518.317	4586.842	1091.462875	24.643	No Armatura
60	61	COMB 6	1	66.861					

Frame	Joint	StepType	Height	Vsdu	Vrdu'	Vrdu"	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	Text	m	kN	kN	kN	kN	kN	cm' / m'
1	1	COMB 7	1	57,538	576,206	4586,842	1213,365803	28,769	No Armatura
1	2	COMB 7	1	43,545	576,206	4586,842	1213,365803	21,7725	No Armatura
2	2	COMB 7	1	60,002	576,206	4586,842	1213,365803	30,001	No Armatura
2	3	COMB 7	1	42,543	576,206	4586,842	1213,365803	21,2715	No Armatura
3	3	COMB 7	1	60,218	576,206	4586,842	1213,365803	30,109	No Armatura
3	4	COMB 7	1	42,844	576,206	4586,842	1213,365803	21,422	No Armatura
4	4	COMB 7	1	59,404	576,206	4586,842	1213,365803	29,702	No Armatura
4	5	COMB 7	1	42,161	557,482	4586,842	1173,936377	21,0805	No Armatura
5	5	COMB 7	1	57,097	560,295	4586,842	1179,860037	28,5485	No Armatura
5	6	COMB 7	1	40,031	512,427	4586,842	1079,061194	20,0155	No Armatura
6	6	COMB 7	1	52,847	515,421	4586,842	1085,364201	26,4235	No Armatura
6	7	COMB 7	1	36,003	483,457	4586,842	1018,054949	18,0015	No Armatura
7	7	COMB 7	1	46,234	486,543	4586,842	1024,554077	23,117	No Armatura
7	8	COMB 7	1	29,658	464,803	4586,842	976,7747289	14,829	No Armatura
8	8	COMB 7	1	36,880	467,938	4586,842	985,3761922	18,44	No Armatura
8	9	COMB 7	1	20,616	453,649	4586,842	955,2878664	10,308	No Armatura
9	9	COMB 7	1	24,463	456,816	4586,842	961,9551086	12,2315	No Armatura
9	10	COMB 7	1	8,554	448,790	4586,842	945,0543782	4,277	No Armatura
10	10	COMB 7	1	8,734	451,992	4586,842	951,7977158	4,367	No Armatura
10	11	COMB 7	1	6,776	450,247	4586,842	948,1217724	3,388	No Armatura
12	12	COMB 7	1	515,791	357,628	4586,842	752,8764146	257,8955	8,066906705
12	13	COMB 7	1	515,791	421,223	4586,842	887,0049617	257,8955	8,066906705
13	13	COMB 7	1	373,276	421,561	4586,842	887,7165372	186,638	No Armatura
13	14	COMB 7	1	373,276	576,206	4586,842	1213,365803	186,638	No Armatura
14	14	COMB 7	1	235,451	576,206	4586,842	1213,365803	117,7255	No Armatura
14	15	COMB 7	1	235,451	576,206	4586,842	1213,365803	117,7255	No Armatura
15	15	COMB 7	1	102,306	576,206	4586,842	1213,365803	51,153	No Armatura
15	16	COMB 7	1	102,306	576,206	4586,842	1213,365803	51,153	No Armatura
16	16	COMB 7	1	134,970	576,206	4586,842	1213,365803	67,485	No Armatura
16	17	COMB 7	1	132,178	510,670	4586,842	1075,395986	66,089	No Armatura
17	17	COMB 7	1	107,604	508,237	4586,842	1070,238221	53,802	No Armatura
18	18	COMB 7	1	103,064	448,369	4586,842	944,1691755	51,532	No Armatura
18	18	COMB 7	1	80,268	447,016	4586,842	941,3224196	49,134	No Armatura
18	19	COMB 7	1	74,022	419,347	4586,842	883,0549864	37,011	No Armatura
19	19	COMB 7	1	53,470	418,685	4586,842	881,661002	26,735	No Armatura
19	20	COMB 7	1	45,576	404,526	4586,842	851,8452307	22,788	No Armatura
20	20	COMB 7	1	27,913	404,404	4586,842	851,5877097	13,9565	No Armatura
20	21	COMB 7	1	18,446	397,707	4586,842	837,4858032	9,223	No Armatura
21	21	COMB 7	1	4,502	398,080	4586,842	838,2710874	2,251	No Armatura
21	22	COMB 7	1	6,453	396,532	4586,842	835,0099411	3,2265	No Armatura
22	22	COMB 7	1	15,932	397,373	4586,842	836,7813451	7,966	No Armatura
22	23	COMB 7	1	28,271	400,222	4586,842	842,7810726	14,1355	No Armatura
23	23	COMB 7	1	32,624	401,535	4586,842	845,5456906	16,312	No Armatura
23	24	COMB 7	1	46,234	408,940	4586,842	861,1389367	23,117	No Armatura
24	24	COMB 7	1	44,902	410,743	4586,842	864,9350143	22,451	No Armatura
24	25	COMB 7	1	59,656	423,613	4586,842	892,0377296	29,828	No Armatura
25	25	COMB 7	1	52,338	425,931	4586,842	896,9184164	26,169	No Armatura
25	26	COMB 7	1	68,100	446,031	4586,842	939,2456643	34,05	No Armatura
26	26	COMB 7	1	88,509	448,706	4586,842	944,8772449	44,2545	No Armatura
26	27	COMB 7	1	104,837	501,229	4586,842	1055,479119	52,4185	No Armatura
27	27	COMB 7	1	107,871	505,576	4586,842	1064,633621	53,9355	No Armatura
27	28	COMB 7	1	124,794	576,206	4586,842	1213,365803	62,397	No Armatura
28	28	COMB 7	1	104,321	576,206	4586,842	1213,365803	52,1995	No Armatura
28	29	COMB 7	1	121,857	576,206	4586,842	1213,365803	60,9335	No Armatura
28	29	COMB 7	1	96,279	576,206	4586,842	1213,365803	48,1395	No Armatura
29	30	COMB 7	1	114,297	576,206	4586,842	1213,365803	57,1485	No Armatura
30	30	COMB 7	1	84,593	576,206	4586,842	1213,365803	42,2965	No Armatura
30	31	COMB 7	1	102,927	576,206	4586,842	1213,365803	51,4635	No Armatura
31	31	COMB 7	1	70,217	576,206	4586,842	1213,365803	35,1085	No Armatura
31	32	COMB 7	1	88,711	576,206	4586,842	1213,365803	44,3555	No Armatura
32	32	COMB 7	1	54,310	576,206	4586,842	1213,365803	27,155	No Armatura
32	33	COMB 7	1	72,804	519,434	4586,842	1093,815241	36,402	No Armatura
33	33	COMB 7	1	37,707	521,823	4586,842	1098,84665	18,8535	No Armatura
33	34	COMB 7	1	56,041	489,471	4586,842	1030,720103	28,205	No Armatura
34	34	COMB 7	1	21,131	491,211	4586,842	1034,38345	10,5655	No Armatura
34	35	COMB 7	1	39,149	475,134	4586,842	1000,529611	19,5745	No Armatura
35	35	COMB 7	1	5,116	476,496	4586,842	1003,98514	2,558	No Armatura
35	36	COMB 7	1	22,662	470,580	4586,842	990,9392777	11,331	No Armatura
36	36	COMB 7	1	9,972	471,745	4586,842	993,3937441	4,986	No Armatura
36	37	COMB 7	1	6,951	473,778	4586,842	997,6737677	3,4755	No Armatura
37	37	COMB 7	1	3,481	475,039	4586,842	1000,329839	1,7405	No Armatura
37	38	COMB 7	1	12,847	474,227	4586,842	998,6199206	6,4235	No Armatura
38	38	COMB 7	1	18,720	475,848	4586,842	1002,033128	9,36	No Armatura
38	39	COMB 7	1	34,461	465,132	4586,842	979,4679481	17,2405	No Armatura
39	39	COMB 7	1	2,547	467,043	4586,842	964,913482	1,2735	No Armatura
39	40	COMB 7	1	17,301	464,524	4586,842	978,1880443	8,6505	No Armatura
40	40	COMB 7	1	14,246	466,420	4586,842	982,1789085	7,123	No Armatura
40	41	COMB 7	1	0,636	471,644	4586,842	993,1792887	0,318	No Armatura
41	41	COMB 7	1	32,276	473,607	4586,842	997,3142437	16,138	No Armatura
41	42	COMB 7	1	19,936	488,562	4586,842	1028,805477	9,968	No Armatura
42	42	COMB 7	1	52,403	490,619	4586,842	1033,137102	26,2015	No Armatura
42	43	COMB 7	1	41,449	521,714	4586,842	1098,615892	20,7245	No Armatura
43	43	COMB 7	1	75,362	523,876	4586,842	1103,17038	37,681	No Armatura
43	44	COMB 7	1	65,894	576,206	4586,842	1213,365803	32,947	No Armatura
44	44	COMB 7	1	101,835	576,206	4586,842	1213,365803	50,9175	No Armatura
44	45	COMB 7	1	93,941	576,206	4586,842	1213,365803	46,9705	No Armatura
45	45	COMB 7	1	132,125	576,206	4586,842	1213,365803	66,0625	No Armatura
45	46	COMB 7	1	125,879	576,206	4586,842	1213,365803	62,9395	No Armatura
46	46	COMB 7	1	166,067	576,206	4586,842	1213,365803	83,0335	No Armatura
46	47	COMB 7	1	161,527	576,206	4586,842	1213,365803	80,7635	No Armatura
47	47	COMB 7	1	202,970	576,206	4586,842	1213,365803	101,485	No Armatura
47	48	COMB 7	1	200,178	550,138	4586,842	1158,471513	100,089	No Armatura
48	48	COMB 7	1	312,538	542,949	4586,842	1143,334001	156,269	No Armatura
48	49	COMB 7	1	312,538	420,064	4586,842	884,563931	156,269	No Armatura
49	49	COMB 7	1	10,844	419,776	4586,842	883,9683004	5,422	No Armatura
49	50	COMB 7	1	10,844	419,426	4586,842	883,2204172	5,422	No Armatura
50	50	COMB 7	1	259,938	419,143	4586,842	882,6249026	129,969	No Armatura
50	51	COMB 7	1	259,938	509,724	4586,842	1073,368715	129,969	No Armatura
51	51	COMB 7	1	506,723	509,252	4586,842	1072,375567	253,3615	No Armatura
51	52	COMB 7	1	506,723	576,206	4586,842	1213,365803	253,3615	No Armatura
53	54	COMB 7	1	103,040	412,887	4586,842	869,4517231	51,52	No Armatura
53	54	COMB 7	1	87,530	439,249	4586,842	924,9627385	43,765	No Armatura
54	54	COMB 7	1	89,564	435,121	4586,842	916,2709021	44,782	No Armatura
54	55	COMB 7	1	73,656	467,125	4586,842	983,6636701	36,828	No Armatura
55	55	COMB 7	1	78,826	462,497	4586,842	973,9182271	39,413	No Armatura
55	56	COMB 7	1	62,562	502,430	4586,842	1058,00796	31,281	No Armatura
56	56	COMB 7	1	70,619	497,282	4586,842	1047,167602	35,3095	No Armatura
56	57	COMB 7	1	54,043	549,411	4586,842	1156,940213	27,0215	No Armatura
57	57	COMB 7	1	64,700	543,712	4586,842	1144,938934	32,35	No Armatura
57	58	COMB 7	1	47,856	576,206	4586,842	1213,365803	23,928	No Armatura
58	58	COMB 7	1	60,795	576,206	4586,842	1213,365803	30,3975	No Armatura
58	59	COMB 7	1	43,728	576,206	4586,842	1213,365803	21,864	No Armatura
59	59	COMB 7	1	58,595	576,206	4586,842	1213,365803	29,2975	No Armatura
59	60	COMB 7	1	41,351	576,206	4586,842	1213,365803	20,6755	No Armatura
60	60	COMB 7	1	57,758	576,206	4586,842	1213,365803	28,779	No Armatura
60	61	COMB 7	1	40,384	576,206	4586,842	1213,365803		

## **Allegato 6**

### **Galleria artificiale - CALCOLO II**

#### **Tabelle di verifica**

## **Verifiche allo S.L.E.**

TABLE: Element Forces - Frames										Estradosso		Intradosso		VERIFICHE SEZIONALI				Apertura Fessure
Frame	Joint	StepType	Height	P	V2	M3	A <sub>f</sub>	A <sub>f</sub>		σ <sub>c</sub>	σ <sub>s,inf</sub>	σ <sub>s,sup</sub>	τ	Wk				
Text	Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>		[Mpa]	[Mpa]	[Mpa]	[kPa]	[mm]				
1	1	COMB 1	1	-6.399	-8.387	-243.471	26.55	26.55	-2.0	-23.2	102.7	-9.3	0.01					
1	2	COMB 1	1	-6.109	5.606	-242.692	26.55	26.55	-2.0	-23.1	102.4	6.2	0.01					
2	2	COMB 1	1	-7.131	-13.257	-242.692	26.55	26.55	-2.0	-23.2	102.2	-14.7	0.01					
2	3	COMB 1	1	-5.955	4.201	-239.523	26.55	26.55	-2.0	-22.8	101.1	4.7	0.00					
3	3	COMB 1	1	-8.281	-18.825	-239.523	26.55	26.55	-2.0	-22.9	100.7	-18.7	0.00					
3	4	COMB 1	1	-6.203	0.550	-233.827	26.55	26.55	-1.9	-22.3	98.6	0.6	0.00					
4	4	COMB 1	1	-9.863	-20.565	-233.827	26.55	26.55	-1.9	-22.4	98.0	-22.9	0.00					
4	5	COMB 1	1	-6.889	-3.322	-225.468	26.55	26.55	-1.9	-21.5	94.9	-3.7	0.00					
5	5	COMB 1	1	-11.934	-24.538	-225.468	26.55	26.55	-1.9	-21.6	94.1	-27.3	0.00					
5	6	COMB 1	1	-8.072	-7.471	-214.266	26.55	26.55	-1.8	-20.5	90.0	-8.3	0.00					
6	6	COMB 1	1	-14.563	-28.774	-214.266	26.55	26.55	-1.8	-20.6	88.8	-32.0	0.00					
6	7	COMB 1	1	-9.823	-11.930	-200.021	26.55	26.55	-1.7	-19.2	83.6	-13.3	0.00					
7	7	COMB 1	1	-17.821	-33.274	-200.021	26.55	26.55	-1.7	-19.4	82.2	-37.0	0.00					
7	8	COMB 1	1	-12.216	-16.698	-182.533	26.55	26.55	-1.5	-17.6	75.7	-18.6	0.00					
8	8	COMB 1	1	-21.779	-38.003	-182.533	26.55	26.55	-1.5	-17.8	74.1	-42.2	0.00					
8	9	COMB 1	1	-15.324	-21.739	-161.626	26.55	26.55	-1.3	-15.7	66.3	-24.2	0.00					
9	9	COMB 1	1	-26.492	-42.886	-161.626	26.55	26.55	-1.4	-15.9	64.4	-47.7	0.00					
9	10	COMB 1	1	-19.204	-26.978	-137.176	26.55	26.55	-1.1	-13.4	55.2	-30.0	0.00					
10	10	COMB 1	1	-31.996	-47.816	-137.176	26.55	26.55	-1.2	-13.7	53.0	-53.1	0.00					
10	11	COMB 1	1	-23.895	-32.306	-109.137	26.55	26.55	-0.9	-10.9	42.4	-35.9	0.00					
12	12	COMB 1	1	-370.325	-29.135	318.426	26.55	26.55	-2.8	76.1	-36.0	-32.4	0.05					
12	13	COMB 1	1	-351.798	-29.135	340.020	26.55	26.55	-3.0	87.7	-38.0	-32.4	0.07					
13	13	COMB 1	1	-351.798	-29.135	340.020	26.55	26.55	-3.0	87.7	-38.0	-32.4	0.07					
13	14	COMB 1	1	-333.268	-29.135	361.613	26.55	26.55	-3.2	99.4	-40.0	-32.4	0.09					
14	14	COMB 1	1	-333.268	-29.135	361.613	26.55	26.55	-3.2	99.4	-40.0	-32.4	0.09					
14	15	COMB 1	1	-314.737	-29.135	383.207	26.55	26.55	-3.4	111.3	-42.0	-32.4	0.11					
15	15	COMB 1	1	-314.737	-29.135	383.207	26.55	26.55	-3.4	111.3	-42.0	-32.4	0.11					
15	16	COMB 1	1	-296.208	-29.135	404.801	26.55	26.55	-3.5	123.3	-43.9	-32.4	0.12					
16	16	COMB 1	1	-297.214	15.878	404.801	26.55	26.55	-3.5	123.1	-43.9	17.6	0.12					
16	17	COMB 1	1	-278.913	13.086	394.077	26.55	26.55	-3.4	121.5	-42.6	14.5	0.12					
17	17	COMB 1	1	-276.360	39.859	394.077	26.55	26.55	-3.4	121.9	-42.5	44.3	0.12					
17	18	COMB 1	1	-258.413	35.319	366.242	26.55	26.55	-3.2	113.1	-39.6	39.2	0.10					
18	18	COMB 1	1	-253.816	60.016	366.242	26.55	26.55	-3.2	113.8	-39.5	66.7	0.10					
18	19	COMB 1	1	-236.389	53.771	324.113	26.55	26.55	-2.8	98.8	-35.1	59.7	0.07					
19	19	COMB 1	1	-230.119	76.294	324.113	26.55	26.55	-2.8	99.8	-35.0	84.7	0.07					
19	20	COMB 1	1	-213.374	63.370	270.562	26.55	26.55	-2.4	80.0	-29.5	76.0	0.03					
20	20	COMB 1	1	-205.806	88.581	270.562	26.55	26.55	-2.4	81.2	-29.4	98.4	0.03					
20	21	COMB 1	1	-189.888	79.114	208.472	26.55	26.55	-1.8	57.8	-23.0	87.9	0.00					
21	21	COMB 1	1	-181.406	97.016	208.472	26.55	26.55	-1.8	59.0	-23.0	107.8	0.00					
21	22	COMB 1	1	-166.482	86.062	140.687	26.55	26.55	-1.2	33.2	-15.9	95.6	0.00					
22	22	COMB 1	1	-157.430	101.680	140.687	26.55	26.55	-1.2	34.5	-15.8	113.0	0.00					
22	23	COMB 1	1	-143.629	89.340	89.962	26.55	26.55	-0.6	8.9	-8.2	99.3	0.00					
23	23	COMB 1	1	-134.368	102.744	89.962	26.55	26.55	-0.6	9.9	-8.1	114.2	0.00					
23	24	COMB 1	1	-121.818	89.134	-1.082	26.55	26.55	-0.1	-1.8	-1.6	99.0	0.00					
24	24	COMB 1	1	-112.678	100.441	-1.082	26.55	26.55	-0.1	-1.6	-1.5	111.6	0.00					
24	25	COMB 1	1	-101.496	85.687	-69.996	26.55	26.55	-0.6	-8.0	13.9	95.2	0.00					
25	25	COMB 1	1	-92.781	95.054	-69.996	26.55	26.55	-0.6	-8.0	15.1	105.6	0.00					
25	26	COMB 1	1	-83.071	79.292	-134.548	26.55	26.55	-1.2	-14.4	43.4	88.1	0.00					
26	26	COMB 1	1	-78.082	84.201	-134.548	26.55	26.55	-1.2	-14.3	44.2	93.6	0.00					
26	27	COMB 1	1	-69.356	67.873	-190.868	26.55	26.55	-1.6	-19.6	69.6	75.4	0.00					
27	27	COMB 1	1	-64.163	72.802	-190.868	26.55	26.55	-1.6	-19.5	70.4	80.9	0.00					
27	28	COMB 1	1	-56.657	55.879	-238.514	26.55	26.55	-2.0	-23.8	92.0	62.1	0.00					
28	28	COMB 1	1	-51.237	60.887	-238.514	26.55	26.55	-2.0	-23.7	92.9	67.7	0.00					
28	29	COMB 1	1	-45.331	43.341	-277.106	26.55	26.55	-2.3	-27.3	110.4	48.2	0.04					
29	29	COMB 1	1	-41.120	47.355	-277.106	26.55	26.55	-2.3	-27.2	111.1	52.6	0.04					
29	30	COMB 1	1	-36.865	29.337	-305.502	26.55	26.55	-2.6	-29.8	123.9	32.6	0.07					
30	30	COMB 1	1	-33.989	32.626	-305.502	26.55	26.55	-2.6	-29.7	124.4	36.3	0.08					
30	31	COMB 1	1	-31.421	14.292	-322.874	26.55	26.55	-2.7	-31.3	132.2	15.9	0.09					
31	31	COMB 1	1	-29.962	17.141	-322.874	26.55	26.55	-2.7	-31.3	132.5	19.0	0.09					
31	32	COMB 1	1	-29.103	-1.352	-328.720	26.55	26.55	-2.7	-31.8	135.1	-1.5	0.10					
32	32	COMB 1	1	-29.103	1.350	-328.720	26.55	26.55	-2.7	-31.8	135.1	1.5	0.10					
32	33	COMB 1	1	-29.962	-17.143	-322.873	26.55	26.55	-2.7	-31.3	132.5	-19.0	0.09					
33	33	COMB 1	1	-31.421	-14.294	-322.873	26.55	26.55	-2.7	-31.3	132.2	-15.9	0.09					
33	34	COMB 1	1	-33.989	32.628	-305.499	26.55	26.55	-2.6	-29.7	124.4	36.3	0.08					
34	34	COMB 1	1	-36.866	-29.339	-305.499	26.55	26.55	-2.6	-29.8	123.9	-32.6	0.07					
34	35	COMB 1	1	-41.121	-47.356	-277.102	26.55	26.55	-2.3	-27.2	111.1	-52.6	0.04					
35	35	COMB 1	1	-45.331	-43.343	-277.102	26.55	26.55	-2.3	-27.3	110.4	-48.2	0.04					
35	36	COMB 1	1	-51.237	-60.889	-238.509	26.55	26.55	-2.0	-23.7	92.9	-67.7	0.00					
36	36	COMB 1	1	-56.658	-55.880	-238.509	26.55	26.55	-2.0	-23.8	92.0	-62.1	0.00					
36	37	COMB 1	1	-64.164	-72.804	-190.862	26.55	26.55	-1.6	-19.5	70.4	-80.9	0.00					
37	37	COMB 1	1	-69.357	-67.875	-190.862	26.55	26.55	-1.6	-19.6	69.6	-75.4	0.00					
37	38	COMB 1	1	-78.093	-84.202	-134.540	26.55	26.55	-1.2	-14.3	44.2	-93.6	0.00					
38	38	COMB 1	1	-83.072	-79.294	-134.540	26.55	26.55	-1.2	-14.4	43.4	-88.1	0.00					
38	39	COMB 1	1	-92.782	-95.055	-69.987	26.55	26.55	-0.6	-8.0	15.1	-105.6	0.00					
39	39	COMB 1	1	-101.497	-85.688	-69.987	26.55	26.55	-0.6	-8.0	13.9	-95.2	0.00					
39	40	COMB 1	1	-112.679	-100.442	-1.072	26.55	26.55	-0.1	-1.6	-1.5	-111.6	0.00					
40	40	COMB 1	1	-121.820	-89.136	-1.072	26.55	26.55	-0.1	-1.8	-1.6	-99.0	0.00					
40	41	COMB 1	1	-134.389	-102.745	89.973	26.55	26.55	-0.6	9.9	-8.1	-114.2	0.00					
41	41	COMB 1	1	-143.631	-89.341	89.973	26.55	26.55	-0.6	9.9	-8.2	-99.3	0.00					
41	42	COMB 1	1	-157.431	-101.681	140.699	26.55	26.55	-1.2	34.5	-15.8	-113.0	0.00					
42	42	COMB 1	1	-166.483	-86.063	140.699	26.55	26.55	-1.2	33.2	-15.9	-95.6	0.00					
42	43	COMB 1	1	-181.407	-97.017	208.485	26.55	26.55	-1.8	59.0	-23.0	-107.8	0.00					
43	43	COMB 1	1	-189.899	-79.115	208.485	26.55	26.55	-1.8	57.9	-23.1	-87.9	0.00					
43	44	COMB 1	1	-205.808	-88.582	270.575	26.55	26.55	-2.4	81.2	-29.4	-98.4	0.03					
44	44	COMB 1	1	-213.375	-68.371	270.575	26.55	26.55	-2.4	80.0	-29.5	-76.0	0.03					
44	45	COMB 1	1	-230.121	-76.264	324.126	26.55	26.55	-2.8	99.8	-35.0	-84.7	0.07					
45	45	COMB 1	1	-236.391	-53.771	324.126	26.55	26.55	-2.8	98.8	-35.1	-59.7	0.07					
45	46	COMB 1	1	-253.818	-60.017	366.257	26.55	26.55	-3.2	113.8	-39.5	-66.7	0.10					
46	46	COMB 1	1	-258.415	-35.319	366.257	26.55	26.55	-3.2	113.1	-39.6	-39.2	0.10					
46	47	COMB 1	1	-276.362	-39.859	394.092	26.55	26.55	-3.4	121.9	-42.5	-44.3	0.12					
47	47	COMB 1	1	-27														

Frame		TABLE: Element Forces - Frames					Estradosso		Intradosso		VERIFICHE SEZIONALI				Apertura Fessure
Joint	StepType	Height	P	V2	M3	A <sub>f</sub>	A <sub>f</sub>	σ <sub>c</sub>	σ <sub>s,inf</sub>	σ <sub>s,sup</sub>	τ	Wk			
Text	Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>	[Mpa]	[Mpa]	[Mpa]	[kPa]	[mm]		
1	1	COMB 2	1	-701.173	-0.271	-382.706	26.55	26.55	-3.3	-44.5	58.0	-0.3	0.05		
1	2	COMB 2	1	-700.884	13.722	-386.471	26.55	26.55	-3.4	-44.9	59.4	15.2	0.06		
2	2	COMB 2	1	-703.206	-8.895	-386.471	26.55	26.55	-3.4	-44.9	59.1	-9.9	0.06		
2	3	COMB 2	1	-702.030	8.564	-386.356	26.55	26.55	-3.4	-44.9	59.2	9.5	0.06		
3	3	COMB 2	1	-707.850	-18.194	-386.356	26.55	26.55	-3.4	-44.9	58.9	-18.0	0.06		
3	4	COMB 2	1	-705.872	-1.181	-381.102	26.55	26.55	-3.3	-44.3	58.9	1.3	0.05		
4	4	COMB 2	1	-715.333	-22.998	-381.102	26.55	26.55	-3.3	-44.3	58.8	-25.6	0.05		
4	5	COMB 2	1	-712.359	-5.755	-371.039	26.55	26.55	-3.2	-43.2	52.6	-6.4	0.05		
5	5	COMB 2	1	-725.339	-29.153	-371.039	26.55	26.55	-3.2	-43.2	51.2	-32.4	0.05		
5	6	COMB 2	1	-721.477	-12.086	-356.607	26.55	26.55	-3.1	-41.6	46.6	-13.4	0.04		
6	6	COMB 2	1	-737.943	-34.475	-356.607	26.55	26.55	-3.1	-41.6	44.9	-38.3	0.04		
6	7	COMB 2	1	-733.203	-17.631	-338.373	26.55	26.55	-2.9	-39.5	39.4	-19.6	0.03		
7	7	COMB 2	1	-753.107	-38.748	-338.373	26.55	26.55	-2.9	-39.5	37.5	-43.1	0.03		
7	8	COMB 2	1	-747.502	-22.172	-317.053	26.55	26.55	-2.7	-37.1	31.5	-24.6	0.02		
8	8	COMB 2	1	-770.766	-41.720	-317.053	26.55	26.55	-2.7	-37.1	29.5	-46.4	0.02		
8	9	COMB 2	1	-764.311	-25.456	-293.544	26.55	26.55	-2.5	-34.5	23.5	-28.3	0.01		
9	9	COMB 2	1	-790.816	-43.101	-293.544	26.55	26.55	-2.5	-34.5	21.7	-47.9	0.01		
9	10	COMB 2	1	-783.528	-27.192	-288.944	26.55	26.55	-2.3	-31.8	16.3	-30.2	0.01		
10	10	COMB 2	1	-813.106	-42.867	-288.944	26.55	26.55	-2.3	-32.0	14.7	-47.3	0.00		
10	11	COMB 2	1	-805.005	-27.057	-244.578	26.55	26.55	-2.1	-29.4	10.3	-30.1	0.00		
12	12	COMB 2	1	-1394.395	359.136	559.295	26.55	26.55	-4.8	49.4	65.6	399.0	0.06		
12	13	COMB 2	1	-1375.865	359.136	293.115	26.55	26.55	-2.8	1.2	-39.2	399.0	0.00		
13	13	COMB 2	1	-1375.865	155.085	293.115	26.55	26.55	-2.8	1.2	-39.2	172.3	0.00		
13	14	COMB 2	1	-1357.336	155.085	178.171	26.55	26.55	-2.2	-6.8	-30.9	172.3	0.00		
14	14	COMB 2	1	-1357.336	-72.190	178.171	26.55	26.55	-2.2	-6.8	-30.9	-80.2	0.00		
14	15	COMB 2	1	-1338.807	-72.190	231.676	26.55	26.55	-2.4	-2.9	-34.3	-80.2	0.00		
15	15	COMB 2	1	-1338.807	-320.767	231.676	26.55	26.55	-2.4	-2.9	-34.3	-356.4	0.00		
15	16	COMB 2	1	-1320.278	-320.767	469.418	26.55	26.55	-4.0	31.2	-55.4	-356.4	0.04		
16	16	COMB 2	1	-1347.966	-163.756	469.418	26.55	26.55	-4.0	29.5	-55.5	-182.0	0.03		
16	17	COMB 2	1	-1329.665	-166.548	591.714	26.55	26.55	-5.1	64.5	-69.2	-185.1	0.08		
17	17	COMB 2	1	-1319.941	-84.962	591.714	26.55	26.55	-5.1	65.3	-69.2	-94.4	0.08		
17	18	COMB 2	1	-1301.393	-89.502	656.309	26.55	26.55	-5.7	88.5	-76.5	-99.4	0.12		
18	18	COMB 2	1	-1277.652	-12.901	656.309	26.55	26.55	-5.7	91.1	-78.4	-14.3	0.12		
18	19	COMB 2	1	-1260.225	-19.147	668.175	26.55	26.55	-5.8	87.2	-77.7	-21.3	0.13		
19	19	COMB 2	1	-1224.184	50.293	668.175	26.55	26.55	-5.8	101.3	-77.7	55.9	0.14		
19	20	COMB 2	1	-1207.439	42.399	633.856	26.55	26.55	-5.5	90.9	-73.8	47.1	0.12		
20	20	COMB 2	1	-1162.716	103.254	633.856	26.55	26.55	-5.5	95.9	-73.7	114.7	0.13		
20	21	COMB 2	1	-1146.808	93.786	560.902	26.55	26.55	-4.9	72.1	-65.4	104.2	0.09		
21	21	COMB 2	1	-1096.326	145.325	560.902	26.55	26.55	-4.9	77.4	-65.3	161.5	0.10		
21	22	COMB 2	1	-1081.403	134.371	457.344	26.55	26.55	-3.9	45.1	-53.5	149.3	0.05		
22	22	COMB 2	1	-1027.888	176.404	457.344	26.55	26.55	-3.9	49.8	-53.5	196.0	0.06		
22	23	COMB 2	1	-1014.088	164.065	331.284	26.55	26.55	-2.8	17.5	-39.4	182.3	0.01		
23	23	COMB 2	1	-959.962	196.861	331.284	26.55	26.55	-2.8	20.4	-39.2	218.7	0.02		
23	24	COMB 2	1	-947.413	183.251	190.547	26.55	26.55	-1.8	-0.1	-26.1	203.6	0.00		
24	24	COMB 2	1	-894.724	207.411	190.547	26.55	26.55	-1.8	0.8	-25.5	230.5	0.00		
24	25	COMB 2	1	-883.542	192.857	42.421	26.55	26.55	-1.0	-9.4	-15.2	214.1	0.00		
25	25	COMB 2	1	-833.989	208.376	42.421	26.55	26.55	-1.0	-8.7	-14.5	232.2	0.00		
25	26	COMB 2	1	-824.273	193.215	-106.491	26.55	26.55	-1.3	-18.7	-4.2	214.7	0.00		
26	26	COMB 2	1	-786.510	175.253	-106.491	26.55	26.55	-1.3	-18.2	-3.7	194.7	0.00		
26	27	COMB 2	1	-777.775	158.925	-230.254	26.55	26.55	-2.0	-27.8	8.9	176.6	0.00		
27	27	COMB 2	1	-743.343	148.362	-230.254	26.55	26.55	-2.0	-27.6	10.3	164.8	0.00		
27	28	COMB 2	1	-735.837	131.439	-333.853	26.55	26.55	-2.9	-39.0	37.7	146.0	0.03		
28	28	COMB 2	1	-704.638	131.243	-333.853	26.55	26.55	-2.9	-39.0	40.7	145.8	0.03		
28	29	COMB 2	1	-698.732	113.697	-424.545	26.55	26.55	-3.7	-49.1	73.8	126.3	0.08		
29	29	COMB 2	1	-673.930	109.625	-424.545	26.55	26.55	-3.7	-49.0	76.9	121.8	0.08		
29	30	COMB 2	1	-669.675	91.608	-499.054	26.55	26.55	-4.4	-57.0	106.6	101.8	0.13		
30	30	COMB 2	1	-651.755	84.404	-499.054	26.55	26.55	-4.4	-56.9	109.1	93.8	0.13		
30	31	COMB 2	1	-649.187	66.070	-554.769	26.55	26.55	-4.9	-62.7	132.0	73.4	0.17		
31	31	COMB 2	1	-638.552	56.455	-554.769	26.55	26.55	-4.9	-62.6	133.5	62.7	0.17		
31	32	COMB 2	1	-637.693	37.952	-589.728	26.55	26.55	-5.2	-66.2	148.0	42.2	0.19		
32	32	COMB 2	1	-634.553	28.669	-589.728	26.55	26.55	-5.2	-66.2	148.4	29.6	0.19		
32	33	COMB 2	1	-635.411	8.175	-602.629	26.55	26.55	-5.3	-67.5	153.6	9.1	0.20		
33	33	COMB 2	1	-639.806	-4.068	-602.629	26.55	26.55	-5.3	-67.6	153.0	-4.5	0.20		
33	34	COMB 2	1	-642.374	-22.402	-592.829	26.55	26.55	-5.2	-66.6	148.6	-24.9	0.19		
34	34	COMB 2	1	-654.415	-34.828	-592.829	26.55	26.55	-5.2	-66.7	146.8	-38.7	0.19		
34	35	COMB 2	1	-658.671	-52.846	-560.366	26.55	26.55	-5.0	-63.4	132.9	-58.7	0.17		
35	35	COMB 2	1	-678.534	-64.541	-560.366	26.55	26.55	-5.0	-63.5	130.0	-71.7	0.16		
35	36	COMB 2	1	-684.441	-82.087	-506.075	26.55	26.55	-4.5	-57.9	107.4	-91.2	0.13		
36	36	COMB 2	1	-712.156	-91.958	-506.075	26.55	26.55	-4.5	-58.0	103.6	-102.2	0.12		
36	37	COMB 2	1	-719.662	-108.881	-431.712	26.55	26.55	-3.8	-50.0	73.9	-121.0	0.08		
37	37	COMB 2	1	-753.039	-130.244	-431.712	26.55	26.55	-3.8	-50.1	69.9	-144.7	0.07		
37	38	COMB 2	1	-761.775	-146.572	-329.193	26.55	26.55	-2.8	-38.5	33.9	-162.9	0.02		
38	38	COMB 2	1	-800.517	-176.151	-329.193	26.55	26.55	-2.8	-38.6	30.7	-195.7	0.02		
38	39	COMB 2	1	-810.228	-191.912	-192.917	26.55	26.55	-1.7	-24.7	2.7	-213.2	0.00		
39	39	COMB 2	1	-822.129	-188.990	-192.917	26.55	26.55	-1.8	-25.3	1.6	-208.7	0.00		
39	40	COMB 2	1	-873.310	-203.444	-47.729	26.55	26.55	-1.0	-15.4	-8.9	-248.0	0.00		
40	40	COMB 2	1	-930.486	-192.414	-47.729	26.55	26.55	-1.1	-16.2	-9.7	-213.8	0.00		
40	41	COMB 2	1	-943.036	-206.024	99.794	26.55	26.55	-1.4	-6.3	-19.9	-228.9	0.00		
41	41	COMB 2	1	-1003.057	-186.443	99.794	26.55	26.55	-1.4	-7.2	-20.7	-207.2	0.00		
41	42	COMB 2	1	-1016.857	-198.782	242.424	26.55	26.55	-2.2	3.4	-31.0	-220.9	0.00		
42	42	COMB 2	1	-1077.403	-169.898	242.424	26.55	26.55	-2.2	2.1	-31.7	-188.8	0.00		
42	43	COMB 2	1	-1092.327	-180.853	372.290	26.55	26.55	-3.2	22.1	-44.1	-200.9	0.02		
43	43	COMB 2	1	-1150.743	-142.298	372.290	26.55	26.55	-3.2	19.1	-44.3	-158.1	0.02		
43	44	COMB 2	1	-1166.652	-151.766	481.167	26.55	26.55	-4.1	45.1	-56.4	-168.6	0.05		
44	44	COMB 2	1	-1220.054	-103.618	481.167	26.55	26.55	-4.1	40.9	-56.5	-115.1	0.05		
44	45	COMB 2	1	-1236.799	-111.511	560.819	26.55	26.55	-4.8	63.3	-65.5	-123.9	0.08		
45	45	COMB 2	1	-1282.143	-54.358	560.819	26.55	26.55	-4.8	59.1	-65.6	-60.4	0.07		
45	46	COMB 2	1	-1299.571	-60.604	603.384	26.55	26.55	-5.2	71.0	-70.5	-67.3	0.09		
46	46	COMB 2	1	-1333.749	4.343	603.384	26.55	26.55	-5.2	67.8	-70.5	4.8	0.09		
46	47														



TABLE: Element Forces - Frames							Estradosso		Intradosso		VERIFICHE SEZIONALI					Apertura Fessure
Frame	Joint	StepType	Height	P	V2	M3	A <sub>f</sub>	A <sub>f</sub> '	σ <sub>c</sub>	σ <sub>s,inf</sub> [Mpa]	σ <sub>s,sup</sub> [Mpa]	τ [kPa]	Wk [mm]			
Text	Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>	[Mpa]							
1	1	COMB 3	1	-761.721	2,071	-304.584	26,55	26,55	-2,6	-35,7	26,7	2,3	0,02			
1	2	COMB 3	1	-761.431	16,064	-309.661	26,55	26,55	-2,7	-36,3	28,2	17,8	0,02			
2	2	COMB 3	1	-763.701	-5,555	-309.661	26,55	26,55	-2,7	-36,3	28,0	-6,2	0,02			
2	3	COMB 3	1	-762.525	11,904	-311.883	26,55	26,55	-2,7	-36,5	28,7	13,2	0,02			
3	3	COMB 3	1	-768.424	-11,673	-311.883	26,55	26,55	-2,7	-36,6	28,3	-13,0	0,02			
3	4	COMB 3	1	-766.348	5,701	-309.793	26,55	26,55	-2,7	-36,3	27,8	6,3	0,02			
4	4	COMB 3	1	-775.804	-17,162	-309.793	26,55	26,55	-2,7	-36,3	27,1	-19,1	0,02			
4	5	COMB 3	1	-772.830	0,082	-303.815	26,55	26,55	-2,6	-35,7	25,7	0,1	0,02			
5	5	COMB 3	1	-785.792	-21,809	-303.815	26,55	26,55	-2,6	-35,7	24,7	-24,2	0,01			
5	6	COMB 3	1	-781.930	-4,742	-294.523	26,55	26,55	-2,5	-34,6	22,6	-5,3	0,01			
6	6	COMB 3	1	-798.322	-25,389	-294.523	26,55	26,55	-2,5	-34,7	21,5	-28,2	0,01			
6	7	COMB 3	1	-793.582	-8,545	-282.648	26,55	26,55	-2,4	-33,4	18,9	-9,5	0,01			
7	7	COMB 3	1	-813.309	-27,655	-282.648	26,55	26,55	-2,4	-33,4	17,7	-30,7	0,01			
7	8	COMB 3	1	-807.704	-11,079	-269.093	26,55	26,55	-2,3	-31,9	15,0	-12,3	0,00			
8	8	COMB 3	1	-830.635	-28,340	-269.093	26,55	26,55	-2,3	-32,0	13,9	-31,5	0,00			
8	9	COMB 3	1	-824.180	-12,076	-254.949	26,55	26,55	-2,2	-30,6	11,4	-13,4	0,00			
9	9	COMB 3	1	-850.148	-27,154	-254.949	26,55	26,55	-2,2	-30,7	10,3	-30,2	0,00			
9	10	COMB 3	1	-842.860	-11,246	-241.511	26,55	26,55	-2,1	-29,3	8,3	-12,5	0,00			
10	10	COMB 3	1	-871.649	-23,733	-241.511	26,55	26,55	-2,1	-29,6	7,3	-26,4	0,00			
10	11	COMB 3	1	-863.548	-8,283	-230.285	26,55	26,55	-2,0	-28,5	6,0	-9,2	0,00			
12	12	COMB 3	1	-1398.149	392.389	535.492	26,55	26,55	-4,6	42,6	62,9	436,0	0,05			
12	13	COMB 3	1	-1379.620	392.389	244.665	26,55	26,55	-2,5	-2,6	-35,8	436,0	0,00			
13	13	COMB 3	1	-1379.620	189.833	244.665	26,55	26,55	-2,5	-2,6	-35,8	210,9	0,00			
13	14	COMB 3	1	-1361.091	189.833	103.967	26,55	26,55	-1,8	-11,9	-26,0	210,9	0,00			
14	14	COMB 3	1	-1361.091	-28,373	103.967	26,55	26,55	-1,8	-11,9	-26,0	-31,5	0,00			
14	15	COMB 3	1	-1342.562	-28,373	124.997	26,55	26,55	-1,9	-10,2	-27,1	-31,5	0,00			
15	15	COMB 3	1	-1342.562	-261,313	124.997	26,55	26,55	-1,9	-10,2	-27,1	-290,3	0,00			
15	16	COMB 3	1	-1324.033	-261,313	318.674	26,55	26,55	-2,9	4,8	-40,6	-290,3	0,00			
16	16	COMB 3	1	-1346.556	-129,624	318.674	26,55	26,55	-2,9	4,3	-40,9	-144,0	0,00			
16	17	COMB 3	1	-1328.256	-132,416	415.695	26,55	26,55	-3,6	19,3	-49,7	-147,1	0,02			
17	17	COMB 3	1	-1321.000	-73.838	415.695	26,55	26,55	-3,6	19,6	-49,7	-82,0	0,02			
17	18	COMB 3	1	-1303.052	-78.378	472.053	26,55	26,55	-4,0	32,9	-55,6	-87,1	0,04			
18	18	COMB 3	1	-1284.822	-21.778	472.053	26,55	26,55	-4,0	34,0	-55,6	-24,3	0,04			
18	19	COMB 3	1	-1267.956	-28.024	490.493	26,55	26,55	-4,2	40,0	-57,6	-31,1	0,05			
19	19	COMB 3	1	-1240.319	24.870	490.493	26,55	26,55	-4,2	42,0	-57,5	27,6	0,05			
19	20	COMB 3	1	-1223.574	16.976	474.999	26,55	26,55	-4,1	39,0	-56,8	18,9	0,05			
20	20	COMB 3	1	-1189.855	64.995	474.999	26,55	26,55	-4,1	41,5	-55,7	72,2	0,05			
20	21	COMB 3	1	-1173.947	55.527	430.375	26,55	26,55	-3,7	30,9	-50,7	61,7	0,03			
21	21	COMB 3	1	-1135.736	97.981	430.375	26,55	26,55	-3,7	33,4	-50,6	108,9	0,04			
21	22	COMB 3	1	-1120.813	87.027	361.876	26,55	26,55	-3,1	18,4	-43,1	96,7	0,02			
22	22	COMB 3	1	-1080.102	123.841	361.876	26,55	26,55	-3,1	20,5	-42,9	137,4	0,02			
22	23	COMB 3	1	-1066.302	111.302	274.888	26,55	26,55	-2,4	6,1	-34,3	123,7	0,00			
23	23	COMB 3	1	-1024.869	142.119	274.888	26,55	26,55	-2,4	7,3	-33,9	157,9	0,00			
23	24	COMB 3	1	-1012.319	128.509	174.687	26,55	26,55	-1,8	-2,2	-25,9	142,8	0,00			
24	24	COMB 3	1	-971.689	153.793	174.687	26,55	26,55	-1,8	-1,6	-25,4	170,9	0,00			
24	25	COMB 3	1	-960.508	139.038	66.266	26,55	26,55	-1,2	-8,8	-17,8	154,5	0,00			
25	25	COMB 3	1	-921.929	159.208	66.266	26,55	26,55	-1,2	-6,3	-17,3	176,9	0,00			
25	26	COMB 3	1	-912.218	143.446	-45.792	26,55	26,55	-4,2	15,8	-3,2	159,4	0,00			
26	26	COMB 3	1	-892.570	128.116	-45.792	26,55	26,55	-1,0	-15,4	-9,2	142,4	0,00			
26	27	COMB 3	1	-873.835	111.789	-134.641	26,55	26,55	-1,5	-21,3	-3,0	124,2	0,00			
27	27	COMB 3	1	-847.087	106.454	-134.641	26,55	26,55	-1,5	-20,9	-2,6	118,3	0,00			
27	28	COMB 3	1	-839.581	89.530	-207.207	26,55	26,55	-1,9	-26,2	3,6	99,5	0,00			
28	28	COMB 3	1	-815.420	97.913	-207.207	26,55	26,55	-1,8	-26,0	4,3	108,8	0,00			
28	29	COMB 3	1	-809.514	80.367	-273.217	26,55	26,55	-2,3	-32,4	15,8	89,3	0,01			
29	29	COMB 3	1	-789.970	86.077	-273.217	26,55	26,55	-2,3	-32,3	16,9	95,6	0,01			
29	30	COMB 3	1	-785.715	68.059	-330.288	26,55	26,55	-2,8	-38,7	32,2	75,6	0,02			
30	30	COMB 3	1	-771.211	71.464	-330.288	26,55	26,55	-2,8	-38,6	33,4	79,4	0,02			
30	31	COMB 3	1	-768.643	53.130	-376.420	26,55	26,55	-3,3	-43,9	48,5	59,0	0,04			
31	31	COMB 3	1	-759.542	54.598	-376.420	26,55	26,55	-3,3	-43,9	49,4	60,7	0,05			
31	32	COMB 3	1	-758.683	36.104	-410.004	26,55	26,55	-3,6	-47,7	61,3	40,1	0,06			
32	32	COMB 3	1	-753.116	38.024	-410.004	26,55	26,55	-3,6	-47,7	61,7	40,0	0,06			
32	33	COMB 3	1	-756.973	17.631	-429.833	26,55	26,55	-3,8	-49,7	68,8	19,5	0,07			
33	33	COMB 3	1	-757.814	16.252	-429.833	26,55	26,55	-3,8	-49,9	68,6	18,1	0,07			
33	34	COMB 3	1	-760.382	-2.082	-435.080	26,55	26,55	-3,8	-50,5	70,2	-2,3	0,08			
34	34	COMB 3	1	-767.707	-4.213	-435.080	26,55	26,55	-3,8	-50,5	69,4	-4,7	0,07			
34	35	COMB 3	1	-771.963	-22.230	-425.289	26,55	26,55	-3,7	-49,4	65,3	-24,7	0,07			
35	35	COMB 3	1	-785.034	-24.730	-425.289	26,55	26,55	-3,7	-49,4	63,8	-27,5	0,07			
35	36	COMB 3	1	-790.940	-42.275	-400.479	26,55	26,55	-3,5	-46,7	54,4	-47,0	0,05			
36	36	COMB 3	1	-809.893	-44.499	-400.479	26,55	26,55	-3,5	-46,7	52,4	-49,4	0,05			
36	37	COMB 3	1	-817.399	-61.422	-361.261	26,55	26,55	-3,1	-42,2	38,8	-68,2	0,03			
37	37	COMB 3	1	-841.369	-78.728	-361.261	26,55	26,55	-3,1	-42,3	36,7	-87,5	0,03			
37	38	COMB 3	1	-850.104	-95.055	-296.900	26,55	26,55	-2,5	-35,1	18,8	-105,6	0,01			
38	38	COMB 3	1	-879.009	-123.383	-296.900	26,55	26,55	-2,5	-35,2	17,2	-137,1	0,01			
38	39	COMB 3	1	-888.720	-139.144	-199.699	26,55	26,55	-1,8	-28,1	1,7	-154,6	0,00			
39	39	COMB 3	1	-927.848	-134.172	-199.699	26,55	26,55	-1,9	-26,6	1,0	-149,1	0,00			
39	40	COMB 3	1	-939.029	-148.926	-94.881	26,55	26,55	-1,3	-19,5	6,6	-168,5	0,00			
40	40	COMB 3	1	-982.580	-139.273	-94.881	26,55	26,55	-1,4	-20,1	-7,2	-154,7	0,00			
40	41	COMB 3	1	-995.129	-152.882	13.290	26,55	26,55	-1,0	-12,9	-14,7	-169,9	0,00			
41	41	COMB 3	1	-1041.764	-137.519	13.290	26,55	26,55	-1,0	-13,6	-15,4	-152,8	0,00			
41	42	COMB 3	1	-1055.564	-149.859	119.692	26,55	26,55	-1,6	-6,5	-22,8	-166,5	0,00			
42	42	COMB 3	1	-1103.475	-128.034	119.692	26,55	26,55	-1,6	-7,2	-23,5	-142,3	0,00			
42	43	COMB 3	1	-1118.398	-138.989	218.558	26,55	26,55	-2,1	-0,7	-30,4	-154,4	0,00			
43	43	COMB 3	1	-1165.011	-110.984	218.558	26,55	26,55	-2,2	-1,3	-31,0	-123,3	0,00			
43	44	COMB 3	1	-1180.919	-120.452	304.247	26,55	26,55	-2,7	6,7	-38,0	-133,8	0,00			
44	44	COMB 3	1	-1224.014	-86.411	304.247	26,55	26,55	-2,7	5,6	-38,4	-96,0	0,00			
44	45	COMB 3	1	-1240.760	-94.304	371.157	26,55	26,55	-3,2	14,9	-44,7	-104,8	0,01			
45	45	COMB 3	1	-1277.995	-54.804	371.157	26,55	26,55	-3,2	13,4	-45,0	-60,9	0,01			
45	46	COMB 3	1	-1295.422	-61.049	414.052	26,55	26,55	-3,6	20,5	-49,4	-67,8	0,02			
46	46	COMB 3	1	-1324.445	-17.126	414.052	26,55	26,55	-3,6	19,1	-49,5	-19,0	0,02			
46	47	COMB 3	1	-1342.392	-21.866	428.415										

## **Verifiche allo S.L.U. di taglio**

Frame	Joint	StepType	Height	Vsdu	Vrdu'	Vrdu"	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	Text	m	kN	kN	kN	kN	kN	cm' / m'
1	1	COMB 1	1	11,742	289,005	4586,842	608,5811281	5,8709	No Armatura
1	2	COMB 1	1	7,848	288,966	4586,842	608,5009136	3,9242	No Armatura
2	2	COMB 1	1	18,560	289,111	4586,842	608,8050564	9,2799	No Armatura
2	3	COMB 1	1	5,881	288,956	4586,842	608,4785329	2,9407	No Armatura
3	3	COMB 1	1	23,555	289,289	4586,842	609,1798996	11,7775	No Armatura
3	4	COMB 1	1	0,770	289,013	4586,842	608,5988729	0,385	No Armatura
4	4	COMB 1	1	28,791	289,550	4586,842	609,7293671	14,3955	No Armatura
4	5	COMB 1	1	4,651	289,151	4586,842	608,8896555	2,3254	No Armatura
5	5	COMB 1	1	34,353	289,919	4586,842	610,5057209	17,1766	No Armatura
5	6	COMB 1	1	10,459	289,395	4586,842	609,4037863	5,2297	No Armatura
6	6	COMB 1	1	40,284	290,434	4586,842	611,5917525	20,1418	No Armatura
6	7	COMB 1	1	16,702	289,788	4586,842	610,2298131	8,351	No Armatura
7	7	COMB 1	1	46,584	291,159	4586,842	613,1177485	23,2918	No Armatura
7	8	COMB 1	1	23,377	290,399	4586,842	611,15165	11,6586	No Armatura
8	8	COMB 1	1	53,204	292,195	4586,842	615,3003657	26,6201	No Armatura
8	9	COMB 1	1	30,435	291,355	4586,842	613,5305973	15,2173	No Armatura
9	9	COMB 1	1	60,040	293,725	4586,842	618,5211394	30,0202	No Armatura
9	10	COMB 1	1	37,769	292,905	4586,842	616,7939462	18,8846	No Armatura
10	10	COMB 1	1	66,942	296,103	4586,842	623,5290266	33,4712	No Armatura
10	11	COMB 1	1	45,228	295,613	4586,842	622,4960767	22,6142	No Armatura
12	12	COMB 1	1	40,789	327,991	4586,842	690,6785607	20,3945	No Armatura
12	13	COMB 1	1	40,789	323,589	4586,842	681,4084801	20,3945	No Armatura
13	13	COMB 1	1	40,789	323,589	4586,842	681,4084801	20,3945	No Armatura
13	14	COMB 1	1	40,789	319,712	4586,842	673,2452999	20,3945	No Armatura
14	14	COMB 1	1	40,789	319,712	4586,842	673,2452999	20,3945	No Armatura
14	15	COMB 1	1	40,789	316,273	4586,842	666,0022978	20,3945	No Armatura
15	15	COMB 1	1	40,789	316,273	4586,842	666,0022978	20,3945	No Armatura
15	16	COMB 1	1	40,789	313,200	4586,842	659,5320374	20,3945	No Armatura
16	16	COMB 1	1	22,229	313,286	4586,842	659,7115269	11,1146	No Armatura
16	17	COMB 1	1	18,320	312,378	4586,842	657,8004771	9,1602	No Armatura
17	17	COMB 1	1	55,803	312,156	4586,842	657,3325779	27,9013	No Armatura
17	18	COMB 1	1	49,447	312,303	4586,842	657,842773	24,7233	No Armatura
18	18	COMB 1	1	84,022	311,873	4586,842	656,7362289	42,0112	No Armatura
18	19	COMB 1	1	75,279	313,118	4586,842	658,939425	37,6387	No Armatura
19	19	COMB 1	1	106,770	312,455	4586,842	657,9618565	53,3845	No Armatura
19	20	COMB 1	1	95,718	315,152	4586,842	663,6413052	47,859	No Armatura
20	20	COMB 1	1	124,013	314,192	4586,842	661,6219099	62,0067	No Armatura
20	21	COMB 1	1	110,760	319,345	4586,842	672,4721174	55,3798	No Armatura
21	21	COMB 1	1	135,822	317,948	4586,842	669,5301063	67,9112	No Armatura
21	22	COMB 1	1	120,487	328,690	4586,842	692,1493143	60,2434	No Armatura
22	22	COMB 1	1	142,352	326,483	4586,842	687,5023136	71,176	No Armatura
22	23	COMB 1	1	125,076	358,516	4586,842	754,9568568	62,538	No Armatura
23	23	COMB 1	1	143,842	353,976	4586,842	745,3963564	71,9208	No Armatura
23	24	COMB 1	1	124,788	576,206	4586,842	1213,3658003	62,3938	No Armatura
24	24	COMB 1	1	140,617	576,206	4586,842	1213,3658003	70,3067	No Armatura
24	25	COMB 1	1	119,962	337,836	4586,842	711,4103819	59,9809	No Armatura
25	25	COMB 1	1	133,076	333,566	4586,842	702,4179094	66,5378	No Armatura
25	26	COMB 1	1	111,009	309,279	4586,842	651,2747989	55,5044	No Armatura
26	26	COMB 1	1	117,881	308,010	4586,842	648,6021086	58,9407	No Armatura
26	27	COMB 1	1	95,022	300,566	4586,842	632,927063	47,5111	No Armatura
27	27	COMB 1	1	101,923	299,633	4586,842	630,9620429	50,9614	No Armatura
27	28	COMB 1	1	78,231	296,250	4586,842	623,8391508	39,1153	No Armatura
28	28	COMB 1	1	85,242	295,471	4586,842	622,1979261	42,6209	No Armatura
28	29	COMB 1	1	60,677	293,714	4586,842	618,4378487	30,3387	No Armatura
28	29	COMB 1	1	66,287	293,193	4586,842	617,4003143	33,1485	No Armatura
29	30	COMB 1	1	41,072	292,242	4586,842	615,3982134	20,5359	No Armatura
30	30	COMB 1	1	45,676	291,919	4586,842	614,7182938	22,8382	No Armatura
30	31	COMB 1	1	20,009	291,441	4586,842	613,7115151	10,0044	No Armatura
31	31	COMB 1	1	23,987	291,286	4586,842	613,385149	11,9987	No Armatura
31	32	COMB 1	1	1,893	291,140	4586,842	613,0772176	0,9464	No Armatura
32	32	COMB 1	1	1,890	291,140	4586,842	613,0772176	0,945	No Armatura
32	33	COMB 1	1	24,000	291,286	4586,842	613,385176	12,0001	No Armatura
33	33	COMB 1	1	20,012	291,441	4586,842	613,7115434	10,0058	No Armatura
33	34	COMB 1	1	45,679	291,919	4586,842	614,7183648	22,8396	No Armatura
34	34	COMB 1	1	41,075	292,242	4586,842	615,3985268	20,5373	No Armatura
34	35	COMB 1	1	66,298	293,193	4586,842	617,4007296	33,1492	No Armatura
35	35	COMB 1	1	60,680	293,714	4586,842	618,4980292	30,3401	No Armatura
35	36	COMB 1	1	85,245	295,471	4586,842	622,1982708	42,6223	No Armatura
36	36	COMB 1	1	78,232	296,251	4586,842	623,8398349	39,116	No Armatura
36	37	COMB 1	1	101,926	299,633	4586,842	630,9632482	50,9628	No Armatura
37	37	COMB 1	1	95,025	300,567	4586,842	632,9283352	47,5125	No Armatura
37	38	COMB 1	1	117,883	308,011	4586,842	648,6050445	58,9414	No Armatura
38	38	COMB 1	1	111,012	309,281	4586,842	651,2778878	55,5058	No Armatura
38	39	COMB 1	1	133,077	333,572	4586,842	702,4395789	66,5385	No Armatura
39	39	COMB 1	1	119,963	337,843	4586,842	711,4245821	59,9816	No Armatura
39	40	COMB 1	1	140,619	576,206	4586,842	1213,3658003	70,3094	No Armatura
40	40	COMB 1	1	124,790	576,206	4586,842	1213,3658003	62,3952	No Armatura
40	41	COMB 1	1	143,843	353,968	4586,842	745,3757805	71,9215	No Armatura
41	41	COMB 1	1	125,077	358,506	4586,842	754,9358237	62,5387	No Armatura
41	42	COMB 1	1	142,353	326,480	4586,842	687,4960488	71,1767	No Armatura
42	42	COMB 1	1	120,488	328,686	4586,842	692,1426598	60,2441	No Armatura
42	43	COMB 1	1	135,824	317,947	4586,842	669,5266545	67,9119	No Armatura
43	43	COMB 1	1	110,761	319,344	4586,842	672,4684878	55,3805	No Armatura
43	44	COMB 1	1	124,015	314,191	4586,842	661,6189446	62,0074	No Armatura
44	44	COMB 1	1	95,719	315,151	4586,842	663,6387934	47,8597	No Armatura
44	45	COMB 1	1	106,770	312,454	4586,842	657,9601031	53,3648	No Armatura
45	45	COMB 1	1	75,279	313,117	4586,842	659,3572292	37,6397	No Armatura
45	46	COMB 1	1	84,024	311,872	4586,842	656,73467	42,0119	No Armatura
46	46	COMB 1	1	49,447	312,302	4586,842	657,6411777	24,7233	No Armatura
46	47	COMB 1	1	55,803	312,155	4586,842	657,331068	27,9013	No Armatura
47	47	COMB 1	1	18,320	312,377	4586,842	657,7989498	9,1602	No Armatura
47	48	COMB 1	1	22,229	313,285	4586,842	659,7097666	11,1146	No Armatura
48	48	COMB 1	1	40,789	313,200	4586,842	659,530462	20,3945	No Armatura
48	49	COMB 1	1	40,789	316,272	4586,842	666,0003684	20,3945	No Armatura
49	49	COMB 1	1	40,789	316,272	4586,842	666,0003684	20,3945	No Armatura
49	50	COMB 1	1	40,789	319,711	4586,842	673,2429568	20,3945	No Armatura
50	50	COMB 1	1	40,789	319,711	4586,842	673,2429568	20,3945	No Armatura
50	51	COMB 1	1	40,789	323,588	4586,842	681,4056305	20,3945	No Armatura
51	51	COMB 1	1	40,789	323,588	4586,842	681,4056305	20,3945	No Armatura
51	52	COMB 1	1	40,789	327,990	4586,842	690,6751105	20,3945	No Armatura
53	54	COMB 1	1	45,224	295,609	4586,842	622,4876282	22,6121	No Armatura
53	54	COMB 1	1	66,938	296,100	4586,842	623,5221672	33,4691	No Armatura
54	54	COMB 1	1	37,764	292,903	4586,842	616,7899347	18,8818	No Armatura
54	55	COMB 1	1	60,035	293,723	4586,842	618,5169948	30,0174	No Armatura
55	55	COMB 1	1	30,426	291,354	4586,842	613,5278232	15,2131	No Armatura
55	56	COMB 1	1	53,196	292,194	4586,842	615,2976582	26,5979	No Armatura
56	56	COMB 1	1	23,369	290,398	4586,842	611,514634	11,6844	No Armatura
56	57	COMB 1	1	46,575	291,158	4586,842	613,1158663	23,2876	No Armatura
57	57	COMB 1	1	16,692	289,787	4586,842	610,228451	8,3461	No Armatura
57	58	COMB 1	1	40,274	290,433	4586,842	611,5900336	20,1369	No Armatura
58	58	COMB 1	1	10,448	289,395	4586,842	609,4027199	5,2241	No Armatura
58	59	COMB 1	1	34,341	289,918	4586,842	610,5046565	17,1703	No Armatura
59	59	COMB 1	1	4,638	289,151	4586,842	608,8887703	2,3191	No Armatura
59	60	COMB 1	1	28,778	289,548	4586,842	609,7285058	14,3962	No Armatura
60	60	COMB 1	1	0,783	289,013	4586,842	608,5984109	0,3913	No Armatura
60	61	COMB 1	1	23,541	289,280				

Frame	Joint	StepType	Height	Vsdu	Vrdu'	Vrdu"	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	Text	m	kN	kN	kN	kN	kN	cm' / m'
1	1	COMB 2	1	0,379	350,942	4586,842	739,0079785	0,1897	No Armatura
1	2	COMB2	1	19,211	350,304	4586,842	737,664792	9,6054	No Armatura
2	2	COMB2	1	12,453	350,510	4586,842	736,0987297	6,2265	No Armatura
2	3	COMB2	1	11,990	350,425	4586,842	737,9182802	5,9948	No Armatura
3	3	COMB2	1	22,672	350,950	4586,842	739,0249472	11,3358	No Armatura
3	4	COMB2	1	1,653	351,629	4586,842	740,4556154	0,8267	No Armatura
4	4	COMB2	1	32,197	352,481	4586,842	742,2486085	16,0986	No Armatura
4	5	COMB2	1	8,057	353,952	4586,842	745,3461827	4,0285	No Armatura
5	5	COMB2	1	40,814	355,152	4586,842	747,8727871	20,4071	No Armatura
5	6	COMB2	1	16,920	357,494	4586,842	752,8046063	8,4602	No Armatura
6	6	COMB2	1	48,265	359,077	4586,842	756,1394874	24,1325	No Armatura
6	7	COMB2	1	24,883	362,422	4586,842	763,1819287	12,3417	No Armatura
7	7	COMB2	1	54,247	364,439	4586,842	767,4303519	27,1236	No Armatura
7	8	COMB2	1	31,041	368,966	4586,842	776,9626884	15,5204	No Armatura
8	8	COMB2	1	58,408	371,483	4586,842	782,2621913	29,204	No Armatura
8	9	COMB2	1	35,638	377,406	4586,842	794,7357062	17,8192	No Armatura
9	9	COMB2	1	60,341	380,503	4586,842	801,2570562	30,1707	No Armatura
9	10	COMB2	1	38,069	388,025	4586,842	817,0971426	19,0344	No Armatura
10	10	COMB2	1	59,594	391,797	4586,842	825,0402314	29,7969	No Armatura
10	11	COMB2	1	37,880	400,992	4586,842	844,4013829	18,9399	No Armatura
12	12	COMB 2	1	502,790	373,613	4586,842	786,747187	251,3952	7,863578947
12	13	COMB 2	1	502,790	449,096	4586,842	945,699521	251,3952	7,863578947
13	13	COMB 2	1	217,119	449,096	4586,842	945,699521	108,5595	No Armatura
13	14	COMB 2	1	217,119	549,391	4586,842	1156,899635	108,5595	No Armatura
14	14	COMB 2	1	101,066	549,391	4586,842	1156,899635	50,533	No Armatura
14	15	COMB 2	1	101,066	486,304	4586,842	1024,051681	50,533	No Armatura
15	15	COMB 2	1	449,074	486,304	4586,842	1024,051681	224,5369	No Armatura
15	16	COMB 2	1	449,074	384,569	4586,842	809,8193858	224,5369	7,023458044
16	16	COMB 2	1	229,258	386,592	4586,842	814,0794303	114,6292	No Armatura
16	17	COMB 2	1	233,167	365,176	4586,842	768,9807869	116,5836	No Armatura
17	17	COMB 2	1	118,947	364,612	4586,842	767,793883	59,4734	No Armatura
17	18	COMB 2	1	125,303	356,144	4586,842	749,9618857	62,6514	No Armatura
18	18	COMB 2	1	18,067	354,872	4586,842	747,2332586	9,0307	No Armatura
18	19	COMB 2	1	26,806	358,792	4586,842	753,5521104	13,4039	No Armatura
19	19	COMB 2	1	70,410	350,842	4586,842	739,0069809	35,2051	No Armatura
19	20	COMB 2	1	59,359	353,438	4586,842	744,2635017	29,6793	No Armatura
20	20	COMB 2	1	144,556	351,018	4586,842	739,1675779	72,2778	No Armatura
20	21	COMB 2	1	131,300	358,228	4586,842	754,3509393	65,6502	No Armatura
21	21	COMB 2	1	203,455	355,141	4586,842	747,8506551	101,7275	No Armatura
21	22	COMB 2	1	188,119	369,202	4586,842	777,4590985	94,0597	No Armatura
22	22	COMB 2	1	246,966	365,188	4586,842	769,0079585	123,4828	No Armatura
22	23	COMB 2	1	229,691	393,092	4586,842	827,7668065	114,8455	No Armatura
23	23	COMB 2	1	275,605	387,488	4586,842	815,9666596	137,8027	No Armatura
23	24	COMB 2	1	256,551	458,635	4586,842	965,7856932	128,2757	No Armatura
24	24	COMB 2	1	290,375	449,151	4586,842	945,8147123	145,1877	No Armatura
24	25	COMB 2	1	269,720	576,206	4586,842	1213,365803	134,8599	No Armatura
25	25	COMB 2	1	292,566	576,206	4586,842	1213,365803	146,2832	No Armatura
25	26	COMB 2	1	270,501	553,583	4586,842	1165,72618	135,2505	No Armatura
26	26	COMB 2	1	245,354	541,419	4586,842	1140,110454	122,6771	No Armatura
26	27	COMB 2	1	222,495	403,959	4586,842	850,6493025	111,2475	No Armatura
27	27	COMB 2	1	207,707	398,830	4586,842	839,848941	103,8534	No Armatura
27	28	COMB 2	1	184,015	363,698	4586,842	765,8702971	92,0073	No Armatura
28	28	COMB 2	1	183,740	360,493	4586,842	759,1208572	91,8701	No Armatura
28	29	COMB 2	1	159,176	344,552	4586,842	723,5521104	73,3679	No Armatura
28	29	COMB 2	1	153,475	342,548	4586,842	721,3327613	76,3735	No Armatura
29	30	COMB 2	1	128,251	334,127	4586,842	703,59969	64,1256	No Armatura
30	30	COMB 2	1	118,166	332,896	4586,842	701,0062695	59,0828	No Armatura
30	31	COMB 2	1	92,498	328,238	4586,842	691,1991737	46,249	No Armatura
31	31	COMB 2	1	79,037	327,581	4586,842	689,8146257	39,5185	No Armatura
31	32	COMB 2	1	53,147	325,191	4586,842	684,78137	26,5734	No Armatura
32	32	COMB 2	1	37,337	325,008	4586,842	684,3968132	18,6683	No Armatura
32	33	COMB 2	1	11,445	324,267	4586,842	682,8358906	5,7225	No Armatura
33	33	COMB 2	1	5,695	324,517	4586,842	683,3626243	2,8476	No Armatura
33	34	COMB 2	1	31,363	325,268	4586,842	684,9431729	15,6814	No Armatura
34	34	COMB 2	1	48,759	325,964	4586,842	686,410125	24,3796	No Armatura
34	35	COMB 2	1	73,984	328,418	4586,842	691,5773238	36,9922	No Armatura
35	35	COMB 2	1	90,357	329,634	4586,842	694,1374151	45,1787	No Armatura
35	36	COMB 2	1	114,922	334,489	4586,842	704,3623828	57,4609	No Armatura
36	36	COMB 2	1	128,741	336,368	4586,842	708,3177082	64,3706	No Armatura
36	37	COMB 2	1	152,433	345,278	4586,842	727,0801935	76,2167	No Armatura
37	37	COMB 2	1	182,342	347,929	4586,842	732,6640653	91,1708	No Armatura
37	38	COMB 2	1	205,201	367,471	4586,842	773,8144085	102,6004	No Armatura
38	38	COMB 2	1	246,611	371,507	4586,842	787,3143353	123,3057	No Armatura
38	39	COMB 2	1	269,677	432,150	4586,842	910,0154345	134,3384	No Armatura
39	39	COMB 2	1	264,166	444,578	4586,842	929,4460902	132,3883	No Armatura
39	40	COMB 2	1	284,822	576,206	4586,842	1213,365803	142,4108	No Armatura
40	40	COMB 2	1	269,380	576,206	4586,842	1213,365803	134,6898	No Armatura
40	41	COMB 2	1	288,434	576,206	4586,842	1213,365803	144,2168	No Armatura
41	41	COMB 2	1	261,020	576,206	4586,842	1213,365803	130,5101	No Armatura
41	42	COMB 2	1	278,295	431,968	4586,842	909,6304591	139,1474	No Armatura
42	42	COMB 2	1	237,857	440,534	4586,842	927,6666521	118,9286	No Armatura
42	43	COMB 2	1	253,194	388,736	4586,842	818,594202	126,5971	No Armatura
43	43	COMB 2	1	199,217	394,118	4586,842	829,9268986	99,6086	No Armatura
43	44	COMB 2	1	212,472	371,263	4586,842	781,7996172	106,2362	No Armatura
44	44	COMB 2	1	145,065	375,070	4586,842	789,8153604	72,5326	No Armatura
44	45	COMB 2	1	156,115	363,742	4586,842	765,9619182	78,0577	No Armatura
45	45	COMB 2	1	76,101	366,515	4586,842	771,8014667	38,0506	No Armatura
45	46	COMB 2	1	84,846	361,974	4586,842	762,2395647	42,4228	No Armatura
46	46	COMB 2	1	6,080	363,917	4586,842	766,3306191	3,0401	No Armatura
46	47	COMB 2	1	0,276	365,133	4586,842	768,8915847	0,1379	No Armatura
47	47	COMB 2	1	98,916	366,273	4586,842	771,2910611	49,4578	No Armatura
47	48	COMB 2	1	95,007	374,694	4586,842	789,0253687	47,5034	No Armatura
48	48	COMB 2	1	305,707	373,945	4586,842	787,4473758	152,8534	No Armatura
48	49	COMB 2	1	305,707	411,320	4586,842	866,1511062	152,8534	No Armatura
49	49	COMB 2	1	16,086	411,320	4586,842	866,1511062	8,043	No Armatura
49	50	COMB 2	1	16,086	415,751	4586,842	875,4827252	8,043	No Armatura
50	50	COMB 2	1	262,472	415,751	4586,842	875,4827252	131,236	No Armatura
50	51	COMB 2	1	262,472	382,810	4586,842	806,1154241	131,236	No Armatura
51	51	COMB 2	1	523,529	382,810	4586,842	806,1154241	261,7643	8,187921801
51	52	COMB 2	1	523,529	350,645	4586,842	738,3832146	261,7643	8,187921801
53	54	COMB 2	1	77,371	576,206	4586,842	1213,365803	38,6855	No Armatura
53	54	COMB 2	1	99,085	510,543	4586,842	1075,09353	49,5425	No Armatura
54	54	COMB 2	1	76,234	501,993	4586,842	1057,087878	38,1171	No Armatura
54	55	COMB 2	1	98,505	448,919	4586,842	945,3269383	49,2527	No Armatura
55	55	COMB 2	1	72,204	443,188	4586,842	933,2584045	36,1018	No Armatura
55	56	COMB 2	1	94,973	413,816	4586,842	871,4077873	47,4866	No Armatura
56	56	COMB 2	1	65,855	409,757	4586,842	862,8604036	32,9273	No Armatura
56	57	COMB 2	1	89,061	391,814	4586,842	825,0758617	44,5305	No Armatura
57	57	COMB 2	1	57,723	388,863	4586,842	818,8608904	28,8617	No Armatura
57	58	COMB 2	1	81,305	377,212	4586,842	794,3261155	40,6525	No Armatura
58	58	COMB 2	1	48,285	375,053	4586,842	789,7803446	24,1423	No Armatura
58	59	COMB 2	1	72,178	367,204	4586,842	773,2521077	36,0892	No Armatura
59	59	COMB 2	1	37,954	365,648	4586,842	769,975948	18,977	No Armatura
59	60	COMB 2	1	62,096	360,271	4586,842	756,6533486	31,0478	No Armatura
60	60	COMB 2	1	27,082	359,198	4586,842			

Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu'' kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm <sup>2</sup> /m <sup>2</sup>
1	1	COMB 3	1	2.899	373,877	4586,842	787,3050596	1,4497	No Armatura
1	2	COMB 3	1	22.490	372,439	4586,842	784,2764039	11,2448	No Armatura
2	2	COMB 3	1	7.777	372,691	4586,842	784,8058508	3,8885	No Armatura
2	3	COMB 3	1	16.666	371,959	4586,842	783,2645428	8,3328	No Armatura
3	3	COMB 3	1	16.342	372,607	4586,842	784,630603	8,1711	No Armatura
3	4	COMB 3	1	7.981	372,947	4586,842	785,3466594	3,9907	No Armatura
4	4	COMB 3	1	24.027	373,995	4586,842	787,5516711	12,0134	No Armatura
4	5	COMB 3	1	0,115	375,349	4586,842	790,4030553	0,0574	No Armatura
5	5	COMB 3	1	30,533	376,812	4586,842	793,4844324	15,2663	No Armatura
5	6	COMB 3	1	6,639	379,161	4586,842	798,4307676	3,3194	No Armatura
6	6	COMB 3	1	35,545	381,070	4586,842	802,4504765	17,7723	No Armatura
6	7	COMB 3	1	11,963	384,401	4586,842	809,4543438	5,9815	No Armatura
7	7	COMB 3	1	38,717	386,794	4586,842	814,5051201	15,3485	No Armatura
7	8	COMB 3	1	15,511	391,051	4586,842	823,4695162	7,7553	No Armatura
8	8	COMB 3	1	39,676	393,974	4586,842	829,6241643	19,838	No Armatura
8	9	COMB 3	1	16,906	398,979	4586,842	840,1635479	8,4532	No Armatura
9	9	COMB 3	1	38,016	402,472	4586,842	847,5199815	19,0078	No Armatura
9	10	COMB 3	1	15,744	407,801	4586,842	858,7411979	7,8722	No Armatura
10	10	COMB 3	1	33,310	411,890	4586,842	867,350583	16,6551	No Armatura
10	11	COMB 3	1	11,596	416,717	4586,842	877,5166219	5,7981	No Armatura
12	12	COMB 3	1	549,345	377,654	4586,842	795,2573548	274,6723	8,591680811
12	13	COMB 3	1	549,345	481,503	4586,842	1013,940686	274,6723	8,591680811
13	13	COMB 3	1	265,766	481,503	4586,842	1013,940686	132,8831	No Armatura
13	14	COMB 3	1	265,766	576,206	4586,842	1213,365803	132,8831	No Armatura
14	14	COMB 3	1	39,722	576,206	4586,842	1213,365803	19,8611	No Armatura
14	15	COMB 3	1	39,722	576,206	4586,842	1213,365803	19,8611	No Armatura
15	15	COMB 3	1	365,838	576,206	4586,842	1213,365803	182,9191	No Armatura
15	16	COMB 3	1	365,838	430,605	4586,842	906,7615228	182,9191	No Armatura
16	16	COMB 3	1	181,474	433,029	4586,842	911,8661318	90,7366	No Armatura
16	17	COMB 3	1	185,382	397,694	4586,842	837,4584373	92,6912	No Armatura
17	17	COMB 3	1	103,373	397,096	4586,842	836,1977562	51,6866	No Armatura
17	18	COMB 3	1	109,729	382,779	4586,842	806,0499943	54,9846	No Armatura
18	18	COMB 3	1	30,489	381,455	4586,842	803,2607825	15,2486	No Armatura
18	19	COMB 3	1	39,234	376,727	4586,842	793,0454784	15,6188	No Armatura
19	19	COMB 3	1	34,818	374,833	4586,842	789,3176851	17,409	No Armatura
19	20	COMB 3	1	23,766	376,453	4586,842	792,728763	11,8832	No Armatura
20	20	COMB 3	1	90,993	374,018	4586,842	787,6017495	45,4955	No Armatura
20	21	COMB 3	1	77,738	381,659	4586,842	803,6908379	38,8689	No Armatura
21	21	COMB 3	1	137,173	378,614	4586,842	797,2783931	68,5867	No Armatura
21	22	COMB 3	1	121,838	394,332	4586,842	830,3777421	60,9189	No Armatura
22	22	COMB 3	1	173,097	390,473	4586,842	822,2525324	86,5487	No Armatura
22	23	COMB 3	1	155,823	421,147	4586,842	886,8435083	77,9114	No Armatura
23	23	COMB 3	1	198,967	415,977	4586,842	875,9573855	99,4833	No Armatura
23	24	COMB 3	1	179,913	486,861	4586,842	1025,2244	89,9563	No Armatura
24	24	COMB 3	1	215,310	478,884	4586,842	1008,425998	107,6551	No Armatura
24	25	COMB 3	1	194,653	576,206	4586,842	1213,365803	97,3266	No Armatura
25	25	COMB 3	1	222,891	576,206	4586,842	1213,365803	111,4456	No Armatura
25	26	COMB 3	1	200,824	576,206	4586,842	1213,365803	100,4122	No Armatura
26	26	COMB 3	1	179,362	576,206	4586,842	1213,365803	89,6812	No Armatura
26	27	COMB 3	1	156,505	510,700	4586,842	1075,424621	78,2523	No Armatura
27	27	COMB 3	1	149,036	503,887	4586,842	1061,076485	74,5178	No Armatura
27	28	COMB 3	1	125,342	427,075	4586,842	899,3280149	62,671	No Armatura
28	28	COMB 3	1	137,078	423,076	4586,842	890,2607825	65,5399	No Armatura
28	29	COMB 3	1	113,614	389,734	4586,842	828,61754435	59,2589	No Armatura
28	29	COMB 3	1	120,508	387,271	4586,842	815,6090471	60,2539	No Armatura
29	30	COMB 3	1	95,283	369,694	4586,842	778,495386	47,6413	No Armatura
30	30	COMB 3	1	100,050	368,188	4586,842	775,3237929	50,0248	No Armatura
30	31	COMB 3	1	74,382	358,139	4586,842	754,1633127	37,191	No Armatura
31	31	COMB 3	1	76,437	357,310	4586,842	752,4170934	38,2186	No Armatura
31	32	COMB 3	1	50,546	351,569	4586,842	740,3286187	25,2728	No Armatura
32	32	COMB 3	1	50,434	351,271	4586,842	739,700098	25,2168	No Armatura
32	33	COMB 3	1	24,543	348,425	4586,842	733,7079007	12,2717	No Armatura
33	33	COMB 3	1	22,753	348,572	4586,842	734,0172411	11,3764	No Armatura
33	34	COMB 3	1	2,915	348,045	4586,842	732,9079586	1,4574	No Armatura
34	34	COMB 3	1	5,898	348,623	4586,842	734,1239245	2,9491	No Armatura
34	35	COMB 3	1	31,122	350,359	4586,842	737,780613	15,561	No Armatura
35	35	COMB 3	1	34,622	351,413	4586,842	740,0003803	17,311	No Armatura
35	36	COMB 3	1	59,185	355,841	4586,842	749,3244141	29,5925	No Armatura
36	36	COMB 3	1	62,299	357,464	4586,842	752,7424794	31,1493	No Armatura
36	37	COMB 3	1	85,991	365,707	4586,842	770,0993817	42,9954	No Armatura
37	37	COMB 3	1	110,219	367,982	4586,842	774,8915248	55,1096	No Armatura
37	38	COMB 3	1	133,077	386,307	4586,842	813,4798084	66,5385	No Armatura
38	38	COMB 3	1	172,736	389,647	4586,842	820,5112593	86,3581	No Armatura
38	39	COMB 3	1	194,802	449,740	4586,842	928,1029529	97,4088	No Armatura
39	39	COMB 3	1	187,841	447,480	4586,842	942,5529113	93,9204	No Armatura
39	40	COMB 3	1	208,496	576,206	4586,842	1213,365803	104,2482	No Armatura
40	40	COMB 3	1	194,982	576,206	4586,842	1213,365803	97,4911	No Armatura
40	41	COMB 3	1	214,035	576,206	4586,842	1213,365803	107,0174	No Armatura
41	41	COMB 3	1	192,527	576,206	4586,842	1213,365803	96,2633	No Armatura
41	42	COMB 3	1	209,803	576,206	4586,842	1213,365803	104,9013	No Armatura
42	42	COMB 3	1	179,248	576,206	4586,842	1213,365803	89,6238	No Armatura
42	43	COMB 3	1	194,585	463,612	4586,842	976,266542	97,2923	No Armatura
43	43	COMB 3	1	155,378	470,927	4586,842	991,6701839	77,6888	No Armatura
43	44	COMB 3	1	168,633	421,229	4586,842	887,0168561	84,3164	No Armatura
44	44	COMB 3	1	120,975	426,087	4586,842	897,2470173	60,4877	No Armatura
44	45	COMB 3	1	132,026	402,760	4586,842	848,1245826	66,0128	No Armatura
45	45	COMB 3	1	76,726	406,200	4586,842	855,3702071	38,3628	No Armatura
45	46	COMB 3	1	85,469	395,409	4586,842	832,6466371	42,7343	No Armatura
46	46	COMB 3	1	23,976	397,814	4586,842	837,7091923	11,9882	No Armatura
46	47	COMB 3	1	30,332	395,572	4586,842	832,9896795	15,1662	No Armatura
47	47	COMB 3	1	35,151	397,057	4586,842	836,1170947	17,5756	No Armatura
47	48	COMB 3	1	31,241	403,241	4586,842	849,1393433	15,6205	No Armatura
48	48	COMB 3	1	204,200	402,821	4586,842	848,254068	102,9999	No Armatura
48	49	COMB 3	1	204,200	445,883	4586,842	938,9336906	102,9999	No Armatura
49	49	COMB 3	1	51,922	445,883	4586,842	938,9336906	25,9809	No Armatura
49	50	COMB 3	1	51,822	434,675	4586,842	915,3310595	25,9609	No Armatura
50	50	COMB 3	1	310,450	434,675	4586,842	915,3310595	155,225	No Armatura
50	51	COMB 3	1	310,450	387,254	4586,842	815,472282	155,225	No Armatura
51	51	COMB 3	1	565,897	387,254	4586,842	815,472282	282,9484	8,850555148
51	52	COMB 3	1	565,897	350,651	4586,842	738,3958122	282,9484	8,850555148
53	54	COMB 3	1	53,813	576,206	4586,842	1213,365803	26,9066	No Armatura
53	54	COMB 3	1	75,527	576,206	4586,842	1213,365803	37,7636	No Armatura
54	54	COMB 3	1	57,198	576,206	4586,842	1213,365803	28,5992	No Armatura
54	55	COMB 3	1	79,471	547,591	4586,842	1153,108602	39,7355	No Armatura
55	55	COMB 3	1	57,253	539,151	4586,842	1135,334376	28,6265	No Armatura
55	56	COMB 3	1	80,023	482,621	4586,842	1016,294962	40,0113	No Armatura
56	56	COMB 3	1	54,527	476,858	4586,842	1004,160405	27,2636	No Armatura
56	57	COMB 3	1	77,734	443,542	4586,842	934,0027602	38,8668	No Armatura
57	57	COMB 3	1	49,552	439,462	4586,842	925,4116941	24,7758	No Armatura
57	58	COMB 3	1	73,133	418,354	4586,842	880,9622831	36,5666	No Armatura
58	58	COMB 3	1	42,830	415,429	4586,842	874,8029883	21,4151	No Armatura
58	59	COMB 3	1	66,724	401,428	4586,842	845,3206594	33,362	No Armatura
59	59	COMB 3	1	34,822	399,351	4586,842	840,9475886	17,4111	No Armatura
59	60	COMB 3	1	58,964	389,824	4586,842	820,8845627	29,4519	No Armatura
60	60	COMB 3	1	35,945	388,407	4586,842	817,915311	12,9724	No Armatura
6									

Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu'' kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm <sup>2</sup> /m <sup>2</sup>
1	1	COMB 4	1	98,845	576,206	4586,842	1213,365803	49,4225	No Armatura
1	2	COMB 4	1	112,838	576,206	4586,842	1213,365803	56,419	No Armatura
2	2	COMB 4	1	96,762	576,206	4586,842	1213,365803	48,381	No Armatura
2	3	COMB 4	1	114,221	576,206	4586,842	1213,365803	57,1105	No Armatura
3	3	COMB 4	1	97,011	576,206	4586,842	1213,365803	48,5055	No Armatura
3	4	COMB 4	1	114,386	522,230	4586,842	1099,70364	57,193	No Armatura
4	4	COMB 4	1	98,303	524,522	4586,842	1104,52978	49,1515	No Armatura
4	5	COMB 4	1	115,547	462,287	4586,842	973,4763474	57,7735	No Armatura
5	5	COMB 4	1	100,962	464,561	4586,842	978,2643665	50,481	No Armatura
5	6	COMB 4	1	118,029	426,819	4586,842	898,7891558	59,0145	No Armatura
6	6	COMB 4	1	105,264	429,052	4586,842	903,4905885	52,632	No Armatura
6	7	COMB 4	1	122,107	403,210	4586,842	849,0728347	61,0535	No Armatura
7	7	COMB 4	1	111,434	405,384	4586,842	853,6512041	55,717	No Armatura
7	8	COMB 4	1	128,011	386,210	4586,842	813,2754083	64,0055	No Armatura
8	8	COMB 4	1	119,668	388,312	4586,842	817,700727	59,834	No Armatura
8	9	COMB 4	1	135,932	373,258	4586,842	786,0015902	67,966	No Armatura
9	9	COMB 4	1	130,132	375,275	4586,842	790,2485224	65,066	No Armatura
9	10	COMB 4	1	146,040	362,963	4586,842	764,3213116	73,02	No Armatura
10	10	COMB 4	1	142,976	364,885	4586,842	768,369561	71,488	No Armatura
10	11	COMB 4	1	158,486	354,609	4586,842	746,5202452	79,243	No Armatura
12	12	COMB 4	1	560,624	542,367	4586,842	1142,108493	280,312	8,768089215
12	13	COMB 4	1	560,624	392,469	4586,842	826,4551196	280,312	8,768089215
13	13	COMB 4	1	233,497	392,278	4586,842	826,0519469	116,7485	No Armatura
13	14	COMB 4	1	233,497	370,872	4586,842	780,977204	116,7485	No Armatura
14	14	COMB 4	1	157,125	370,719	4586,842	780,652977	78,5625	No Armatura
14	15	COMB 4	1	157,125	382,097	4586,842	804,6135328	78,5625	No Armatura
15	15	COMB 4	1	623,573	381,920	4586,842	804,2401005	311,7865	9,752603699
15	16	COMB 4	1	623,573	521,080	4586,842	1097,281021	311,7865	9,752603699
16	16	COMB 4	1	454,379	532,156	4586,842	1120,604861	227,1895	No Armatura
16	17	COMB 4	1	457,171	576,206	4586,842	1213,365803	228,5855	No Armatura
17	17	COMB 4	1	368,443	576,206	4586,842	1213,365803	184,2215	No Armatura
18	18	COMB 4	1	372,983	527,758	4586,842	1111,344921	186,4915	No Armatura
18	18	COMB 4	1	284,917	528,007	4586,842	1111,869223	142,5955	No Armatura
18	19	COMB 4	1	291,157	428,019	4586,842	901,3164243	145,5785	No Armatura
19	19	COMB 4	1	205,862	427,008	4586,842	899,1894424	102,831	No Armatura
19	20	COMB 4	1	213,755	393,870	4586,842	829,4053375	106,8775	No Armatura
20	20	COMB 4	1	132,710	392,377	4586,842	826,2604871	66,355	No Armatura
20	21	COMB 4	1	142,178	377,740	4586,842	795,4386458	71,089	No Armatura
21	21	COMB 4	1	66,292	375,966	4586,842	791,7033851	33,146	No Armatura
21	22	COMB 4	1	77,246	369,480	4586,842	778,0452424	38,623	No Armatura
22	22	COMB 4	1	6,962	367,499	4586,842	773,8732432	3,481	No Armatura
22	23	COMB 4	1	19,301	365,791	4586,842	770,2771065	9,6505	No Armatura
23	23	COMB 4	1	45,272	363,623	4586,842	765,7122958	22,636	No Armatura
23	24	COMB 4	1	31,662	365,531	4586,842	769,7301633	15,831	No Armatura
24	24	COMB 4	1	90,643	363,163	4586,842	764,7435338	45,3215	No Armatura
24	25	COMB 4	1	75,889	368,618	4586,842	776,2306331	37,9445	No Armatura
25	25	COMB 4	1	129,500	366,003	4586,842	770,722945	64,75	No Armatura
25	26	COMB 4	1	113,738	375,927	4586,842	791,6213048	56,869	No Armatura
26	26	COMB 4	1	121,107	373,383	4586,842	786,2630741	60,5535	No Armatura
26	27	COMB 4	1	104,779	385,035	4586,842	810,7997697	52,3895	No Armatura
27	27	COMB 4	1	125,566	382,253	4586,842	804,9421465	62,783	No Armatura
27	28	COMB 4	1	108,643	398,194	4586,842	838,5110769	54,3215	No Armatura
28	28	COMB 4	1	147,817	394,921	4586,842	831,6189443	73,9385	No Armatura
28	29	COMB 4	1	130,271	428,538	4586,842	869,9844243	65,3585	No Armatura
28	29	COMB 4	1	165,621	418,733	4586,842	881,7613712	82,8105	No Armatura
29	30	COMB 4	1	147,604	473,962	4586,842	968,0605739	73,802	No Armatura
30	30	COMB 4	1	179,134	468,814	4586,842	987,2198327	89,567	No Armatura
30	31	COMB 4	1	160,799	576,206	4586,842	1213,365803	80,3995	No Armatura
31	31	COMB 4	1	188,493	576,206	4586,842	1213,365803	94,2465	No Armatura
31	32	COMB 4	1	170,000	576,206	4586,842	1213,365803	85	No Armatura
32	32	COMB 4	1	193,810	576,206	4586,842	1213,365803	96,905	No Armatura
32	33	COMB 4	1	175,316	576,206	4586,842	1213,365803	87,658	No Armatura
33	33	COMB 4	1	194,568	576,206	4586,842	1213,365803	97,284	No Armatura
33	34	COMB 4	1	176,234	461,192	4586,842	971,1713862	88,117	No Armatura
34	34	COMB 4	1	189,713	456,664	4586,842	961,6345682	94,8565	No Armatura
34	35	COMB 4	1	171,696	400,187	4586,842	842,7073372	85,848	No Armatura
35	35	COMB 4	1	178,438	397,274	4586,842	836,5736404	89,219	No Armatura
35	36	COMB 4	1	160,892	371,512	4586,842	782,3238087	80,446	No Armatura
36	36	COMB 4	1	160,326	369,497	4586,842	778,0805795	80,163	No Armatura
36	37	COMB 4	1	143,403	355,625	4586,842	748,8691792	71,7015	No Armatura
37	37	COMB 4	1	118,825	354,490	4586,842	746,478325	59,4125	No Armatura
37	38	COMB 4	1	102,988	347,474	4586,842	731,7048666	51,249	No Armatura
38	38	COMB 4	1	60,075	346,938	4586,842	730,5761197	30,0375	No Armatura
38	39	COMB 4	1	44,314	344,542	4586,842	725,5037393	22,157	No Armatura
39	39	COMB 4	1	27,871	344,311	4586,842	725,04428	17,055	No Armatura
39	40	COMB 4	1	12,657	343,825	4586,842	724,2314046	6,3285	No Armatura
40	40	COMB 4	1	9,079	344,124	4586,842	724,65133	4,5395	No Armatura
40	41	COMB 4	1	22,889	345,790	4586,842	728,1579518	11,3445	No Armatura
41	41	COMB 4	1	47,869	346,459	4586,842	729,5679583	23,9345	No Armatura
41	42	COMB 4	1	60,209	350,637	4586,842	738,3657681	30,1045	No Armatura
42	42	COMB 4	1	87,243	351,839	4586,842	740,8962014	43,6215	No Armatura
42	43	COMB 4	1	98,197	359,687	4586,842	757,4230061	49,0985	No Armatura
43	43	COMB 4	1	125,478	361,522	4586,842	761,2861072	62,739	No Armatura
43	44	COMB 4	1	134,945	375,718	4586,842	791,1806965	67,4725	No Armatura
44	44	COMB 4	1	161,018	378,369	4586,842	796,7629089	80,509	No Armatura
44	45	COMB 4	1	168,911	405,862	4586,842	854,6581547	84,4555	No Armatura
45	45	COMB 4	1	192,648	409,720	4586,842	862,7819038	96,324	No Armatura
45	46	COMB 4	1	198,894	474,442	4586,842	999,0716845	99,447	No Armatura
46	46	COMB 4	1	219,620	480,604	4586,842	1012,048179	109,81	No Armatura
46	47	COMB 4	1	224,160	576,206	4586,842	1213,365803	112,08	No Armatura
47	47	COMB 4	1	241,834	576,206	4586,842	1213,365803	120,917	No Armatura
47	48	COMB 4	1	244,626	576,206	4586,842	1213,365803	122,313	No Armatura
48	48	COMB 4	1	190,800	576,206	4586,842	1213,365803	95,4	No Armatura
48	49	COMB 4	1	190,800	576,206	4586,842	1213,365803	95,4	No Armatura
49	49	COMB 4	1	328,755	576,206	4586,842	1213,365803	164,3775	No Armatura
49	50	COMB 4	1	328,755	428,346	4586,842	902,003551	164,3775	No Armatura
50	50	COMB 4	1	471,390	428,652	4586,842	902,6487118	235,695	7,37248062
50	51	COMB 4	1	471,390	367,893	4586,842	774,7023627	235,695	7,37248062
51	51	COMB 4	1	618,715	368,064	4586,842	775,0634732	309,3575	9,676625187
51	52	COMB 4	1	618,715	339,490	4586,842	714,892384	309,3575	9,676625187
53	54	COMB 4	1	34,315	376,660	4586,842	793,1634585	17,1575	No Armatura
53	54	COMB 4	1	49,825	381,847	4586,842	804,0876669	24,9125	No Armatura
54	54	COMB 4	1	53,887	379,934	4586,842	800,0587196	26,9435	No Armatura
54	55	COMB 4	1	69,795	388,027	4586,842	817,1019003	34,8975	No Armatura
55	55	COMB 4	1	69,225	386,020	4586,842	812,8739464	34,6125	No Armatura
55	56	COMB 4	1	85,489	397,705	4586,842	837,4813591	42,7445	No Armatura
56	56	COMB 4	1	80,699	395,608	4586,842	833,0645385	40,3495	No Armatura
56	57	COMB 4	1	97,275	412,274	4586,842	868,1590773	48,6375	No Armatura
57	57	COMB 4	1	88,771	410,092	4586,842	863,5642671	44,3855	No Armatura
57	58	COMB 4	1	105,615	434,460	4586,842	914,8782101	52,8075	No Armatura
58	58	COMB 4	1	93,970	432,199	4586,842	910,117146	46,985	No Armatura
58	59	COMB 4	1	111,036	470,033	4586,842	989,7876277	55,518	No Armatura
59	59	COMB 4	1	96,864	467,698	4586,842	984,86983	48,432	No Armatura
59	60	COMB 4	1	114,107	533,295	4586,842	1123,004268	57,0535	No Armatura
60	60	COMB 4	1	98,984	530,886	4586,842	1117,31125	49	

Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu'' kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm <sup>2</sup> /m <sup>2</sup>
1	1	COMB 5	1	52,796	521,570	4586,842	1098,312943	26,398	No Armatura
1	2	COMB 5	1	38,803	561,470	4586,842	1182,33429	19,4015	No Armatura
2	2	COMB 5	1	59,411	561,506	4586,842	1182,409951	29,7055	No Armatura
2	3	COMB 5	1	41,953	576,206	4586,842	1213,365803	20,9765	No Armatura
3	3	COMB 5	1	64,286	576,206	4586,842	1213,365803	32,143	No Armatura
3	4	COMB 5	1	46,912	576,206	4586,842	1213,365803	23,456	No Armatura
4	4	COMB 5	1	68,265	576,206	4586,842	1213,365803	34,1325	No Armatura
4	5	COMB 5	1	51,022	576,206	4586,842	1213,365803	25,511	No Armatura
5	5	COMB 5	1	70,977	576,206	4586,842	1213,365803	35,4885	No Armatura
5	6	COMB 5	1	53,910	576,206	4586,842	1213,365803	26,955	No Armatura
6	6	COMB 5	1	72,043	576,206	4586,842	1213,365803	36,0215	No Armatura
6	7	COMB 5	1	55,199	576,206	4586,842	1213,365803	27,5995	No Armatura
7	7	COMB 5	1	71,085	576,206	4586,842	1213,365803	35,5425	No Armatura
7	8	COMB 5	1	54,509	576,206	4586,842	1213,365803	27,2545	No Armatura
8	8	COMB 5	1	67,732	576,206	4586,842	1213,365803	33,866	No Armatura
8	9	COMB 5	1	51,468	576,206	4586,842	1213,365803	25,734	No Armatura
9	9	COMB 5	1	61,633	576,206	4586,842	1213,365803	30,8165	No Armatura
9	10	COMB 5	1	45,724	533,818	4586,842	1124,104864	22,862	No Armatura
10	10	COMB 5	1	52,473	540,092	4586,842	1137,316213	26,2365	No Armatura
10	11	COMB 5	1	36,963	500,537	4586,842	1054,023104	18,4815	No Armatura
12	12	COMB 5	1	468,556	354,326	4586,842	746,1338461	234,278	7,328157215
12	13	COMB 5	1	468,556	390,414	4586,842	822,1263889	234,278	7,328157215
13	13	COMB 5	1	331,504	390,191	4586,842	821,6586359	165,752	No Armatura
13	14	COMB 5	1	331,504	456,127	4586,842	960,5053268	165,752	No Armatura
14	14	COMB 5	1	199,142	455,756	4586,842	959,7243555	99,571	No Armatura
14	15	COMB 5	1	199,142	564,524	4586,842	1188,765419	99,571	No Armatura
15	15	COMB 5	1	71,460	563,904	4586,842	1187,458884	35,73	No Armatura
15	16	COMB 5	1	71,460	576,206	4586,842	1213,365803	35,73	No Armatura
16	16	COMB 5	1	134,605	576,206	4586,842	1213,365803	67,3025	No Armatura
16	17	COMB 5	1	131,813	576,206	4586,842	1213,365803	65,9065	No Armatura
17	17	COMB 5	1	125,862	576,206	4586,842	1213,365803	62,931	No Armatura
17	18	COMB 5	1	121,322	576,206	4586,842	1213,365803	60,861	No Armatura
18	18	COMB 5	1	114,200	576,206	4586,842	1213,365803	57,1	No Armatura
18	19	COMB 5	1	107,954	576,206	4586,842	1213,365803	53,977	No Armatura
19	19	COMB 5	1	99,795	576,206	4586,842	1213,365803	49,8975	No Armatura
19	20	COMB 5	1	91,902	576,206	4586,842	1213,365803	45,951	No Armatura
20	20	COMB 5	1	83,318	575,502	4586,842	1211,883052	41,659	No Armatura
20	21	COMB 5	1	73,850	501,154	4586,842	1056,322752	36,925	No Armatura
21	21	COMB 5	1	65,755	497,998	4586,842	1048,677032	32,8775	No Armatura
21	22	COMB 5	1	54,801	461,961	4586,842	972,7891313	27,4005	No Armatura
22	22	COMB 5	1	48,253	460,093	4586,842	968,8559745	24,1265	No Armatura
22	23	COMB 5	1	35,914	440,730	4586,842	928,0813187	17,957	No Armatura
23	23	COMB 5	1	31,973	439,777	4586,842	926,0757585	15,9865	No Armatura
23	24	COMB 5	1	18,363	429,375	4586,842	904,169923	9,1815	No Armatura
24	24	COMB 5	1	17,962	429,118	4586,842	903,6291697	8,981	No Armatura
24	25	COMB 5	1	3,208	424,252	4586,842	893,3826832	1,604	No Armatura
25	25	COMB 5	1	6,998	424,536	4586,842	893,9818831	3,499	No Armatura
25	26	COMB 5	1	8,764	423,417	4586,842	891,6249282	4,382	No Armatura
26	26	COMB 5	1	34,346	424,223	4586,842	893,3215549	17,173	No Armatura
26	27	COMB 5	1	50,674	436,886	4586,842	919,9865341	25,337	No Armatura
27	27	COMB 5	1	59,259	438,418	4586,842	923,2127885	29,6295	No Armatura
27	28	COMB 5	1	76,182	466,543	4586,842	982,4375985	38,091	No Armatura
28	28	COMB 5	1	81,924	468,995	4586,842	987,583105	39,592	No Armatura
28	29	COMB 5	1	79,470	514,271	4586,842	1082,84244	59,175	No Armatura
28	29	COMB 5	1	60,912	517,436	4586,842	1089,609312	30,456	No Armatura
29	30	COMB 5	1	78,929	576,206	4586,842	1213,365803	39,445	No Armatura
30	30	COMB 5	1	56,998	576,206	4586,842	1213,365803	28,499	No Armatura
30	31	COMB 5	1	75,332	576,206	4586,842	1213,365803	37,666	No Armatura
31	31	COMB 5	1	51,155	576,206	4586,842	1213,365803	25,5775	No Armatura
31	32	COMB 5	1	69,648	576,206	4586,842	1213,365803	34,824	No Armatura
32	32	COMB 5	1	44,475	576,206	4586,842	1213,365803	22,2375	No Armatura
32	33	COMB 5	1	62,968	576,206	4586,842	1213,365803	31,484	No Armatura
33	33	COMB 5	1	37,822	576,206	4586,842	1213,365803	18,911	No Armatura
33	34	COMB 5	1	56,156	576,206	4586,842	1213,365803	28,078	No Armatura
34	34	COMB 5	1	31,729	576,206	4586,842	1213,365803	15,8645	No Armatura
34	35	COMB 5	1	49,747	576,206	4586,842	1213,365803	24,8735	No Armatura
35	35	COMB 5	1	26,520	576,206	4586,842	1213,365803	13,26	No Armatura
35	36	COMB 5	1	44,066	576,206	4586,842	1213,365803	22,033	No Armatura
36	36	COMB 5	1	22,225	576,206	4586,842	1213,365803	11,1125	No Armatura
36	37	COMB 5	1	39,148	576,206	4586,842	1213,365803	19,574	No Armatura
37	37	COMB 5	1	39,305	576,206	4586,842	1213,365803	19,6525	No Armatura
37	38	COMB 5	1	55,633	576,206	4586,842	1213,365803	27,8165	No Armatura
38	38	COMB 5	1	72,063	576,206	4586,842	1213,365803	36,0315	No Armatura
38	39	COMB 5	1	87,825	572,498	4586,842	1205,559001	43,9125	No Armatura
39	39	COMB 5	1	64,950	576,206	4586,842	1213,365803	32,473	No Armatura
39	40	COMB 5	1	79,704	517,998	4586,842	1090,792678	39,852	No Armatura
40	40	COMB 5	1	55,230	524,251	4586,842	1103,960085	27,615	No Armatura
40	41	COMB 5	1	68,840	488,936	4586,842	1029,593772	34,42	No Armatura
41	41	COMB 5	1	41,630	494,590	4586,842	1041,499803	20,815	No Armatura
41	42	COMB 5	1	53,969	474,172	4586,842	998,5041918	26,9845	No Armatura
42	42	COMB 5	1	22,840	479,405	4586,842	1009,523416	11,42	No Armatura
42	43	COMB 5	1	33,794	469,895	4586,842	989,4982282	16,897	No Armatura
43	43	COMB 5	1	2,339	474,773	4586,842	999,7700122	1,1695	No Armatura
43	44	COMB 5	1	7,129	476,016	4586,842	1002,387348	3,5645	No Armatura
44	44	COMB 5	1	34,809	480,539	4586,842	1011,912012	17,4045	No Armatura
44	45	COMB 5	1	26,915	496,526	4586,842	1045,57619	13,4575	No Armatura
45	45	COMB 5	1	74,967	500,631	4586,842	1054,219815	37,4835	No Armatura
45	46	COMB 5	1	68,721	545,244	4586,842	1148,165575	34,3605	No Armatura
46	46	COMB 5	1	122,555	548,754	4586,842	1155,556878	61,2775	No Armatura
46	47	COMB 5	1	118,015	576,206	4586,842	1213,365803	59,0075	No Armatura
47	47	COMB 5	1	176,471	576,206	4586,842	1213,365803	88,2355	No Armatura
47	48	COMB 5	1	173,678	576,206	4586,842	1213,365803	86,839	No Armatura
48	48	COMB 5	1	317,709	576,206	4586,842	1213,365803	158,8545	No Armatura
48	49	COMB 5	1	317,709	576,206	4586,842	1213,365803	158,8545	No Armatura
49	49	COMB 5	1	7,978	576,206	4586,842	1213,365803	3,989	No Armatura
49	50	COMB 5	1	7,978	576,206	4586,842	1213,365803	3,989	No Armatura
50	50	COMB 5	1	266,444	576,206	4586,842	1213,365803	133,222	No Armatura
50	51	COMB 5	1	266,444	576,206	4586,842	1213,365803	133,222	No Armatura
51	51	COMB 5	1	508,555	576,206	4586,842	1213,365803	254,2775	No Armatura
51	52	COMB 5	1	508,555	484,336	4586,842	1019,906645	254,2775	7,95373657
53	54	COMB 5	1	39,548	419,497	4586,842	883,3694287	19,774	No Armatura
53	54	COMB 5	1	24,038	429,167	4586,842	903,7328371	12,019	No Armatura
54	54	COMB 5	1	33,417	424,377	4586,842	893,6469093	16,7085	No Armatura
54	55	COMB 5	1	17,508	432,933	4586,842	911,6636658	8,754	No Armatura
55	55	COMB 5	1	29,902	428,317	4586,842	901,9427342	14,951	No Armatura
55	56	COMB 5	1	13,638	436,221	4586,842	918,5863599	6,819	No Armatura
56	56	COMB 5	1	28,664	431,872	4586,842	909,4299657	14,332	No Armatura
56	57	COMB 5	1	12,088	439,728	4586,842	925,9727853	6,044	No Armatura
57	57	COMB 5	1	29,369	435,721	4586,842	917,5346965	14,6845	No Armatura
57	58	COMB 5	1	12,525	444,245	4586,842	935,4845569	6,2625	No Armatura
58	58	COMB 5	1	31,685	440,635	4586,842	927,8812151	15,8425	No Armatura
58	59	COMB 5	1	14,619	450,685	4586,842	949,0441444	7,3095	No Armatura
59	59	COMB 5	1	35,292	447,516	4586,842	942,3718293	17,646	No Armatura
59	60	COMB 5	1	18,048	460,207	4586,842	969,0963272	9,024	No Armatura
60	60	COMB 5	1	39,869	457,527	4586,842	953,4528963	19,945	No Armatura
60	61	COMB 5	1	22,495	474,487	4586,842	999,1669513	11,2475	No Armatura

Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu" kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm <sup>2</sup> /m <sup>2</sup>
1	1	COMB 6	1	107,451	459,348	4586,842	967,2880037	53,7255	No Armatura
1	2	COMB 6	1	121,444	507,705	4586,842	1069,117293	60,722	No Armatura
2	2	COMB 6	1	111,697	508,119	4586,842	1069,989188	55,8485	No Armatura
2	3	COMB 6	1	129,155	576,206	4586,842	1213,365803	64,5775	No Armatura
3	3	COMB 6	1	119,103	576,206	4586,842	1213,365803	59,5515	No Armatura
3	4	COMB 6	1	136,477	576,206	4586,842	1213,365803	68,2385	No Armatura
4	4	COMB 6	1	127,762	576,206	4586,842	1213,365803	63,881	No Armatura
4	5	COMB 6	1	145,005	576,206	4586,842	1213,365803	72,5025	No Armatura
5	5	COMB 6	1	138,078	576,206	4586,842	1213,365803	69,039	No Armatura
5	6	COMB 6	1	155,144	576,206	4586,842	1213,365803	77,572	No Armatura
6	6	COMB 6	1	150,363	576,206	4586,842	1213,365803	75,1815	No Armatura
6	7	COMB 6	1	167,207	486,524	4586,842	1024,514029	83,6035	No Armatura
7	7	COMB 6	1	164,836	489,306	4586,842	1030,373285	82,418	No Armatura
7	8	COMB 6	1	181,412	424,011	4586,842	892,8767161	90,706	No Armatura
8	8	COMB 6	1	181,629	426,137	4586,842	897,3529906	90,8145	No Armatura
8	9	COMB 6	1	197,893	389,605	4586,842	820,4242189	98,9465	No Armatura
9	9	COMB 6	1	200,797	391,331	4586,842	824,057414	100,3985	No Armatura
9	10	COMB 6	1	216,706	367,821	4586,842	774,5518503	108,353	No Armatura
10	10	COMB 6	1	222,330	369,265	4586,842	777,5930962	111,165	No Armatura
10	11	COMB 6	1	237,840	352,801	4586,842	742,9223199	118,92	No Armatura
12	12	COMB 6	1	533,614	375,316	4586,842	790,3353156	266,807	8,345656195
12	13	COMB 6	1	533,614	341,695	4586,842	719,5355465	266,807	8,345656195
13	13	COMB 6	1	221,375	341,824	4586,842	719,8078422	110,6875	No Armatura
13	14	COMB 6	1	221,375	333,847	4586,842	703,0092486	110,6875	No Armatura
14	14	COMB 6	1	141,692	333,959	4586,842	703,2448167	70,846	No Armatura
14	15	COMB 6	1	141,692	337,491	4586,842	710,6831591	70,846	No Armatura
15	15	COMB 6	1	572,317	337,613	4586,842	710,9409859	286,1585	8,950966272
15	16	COMB 6	1	572,317	366,878	4586,842	772,5649205	286,1585	8,950966272
16	16	COMB 6	1	452,457	372,136	4586,842	783,6379736	226,2285	7,076370869
16	17	COMB 6	1	455,250	450,056	4586,842	947,7209057	227,625	7,12005304
17	17	COMB 6	1	393,536	454,277	4586,842	956,6092092	196,768	No Armatura
17	18	COMB 6	1	398,076	576,206	4586,842	1213,365803	199,038	No Armatura
18	18	COMB 6	1	333,340	576,206	4586,842	1213,365803	166,87	No Armatura
18	19	COMB 6	1	333,586	576,206	4586,842	1213,365803	169,793	No Armatura
19	19	COMB 6	1	273,328	576,206	4586,842	1213,365803	136,664	No Armatura
19	20	COMB 6	1	281,221	432,919	4586,842	911,6346617	140,6105	No Armatura
20	20	COMB 6	1	214,604	433,379	4586,842	912,6014086	107,302	No Armatura
20	21	COMB 6	1	224,072	389,788	4586,842	820,8085647	112,036	No Armatura
21	21	COMB 6	1	157,968	389,539	4586,842	820,284923	78,984	No Armatura
21	22	COMB 6	1	168,923	370,427	4586,842	780,0385848	84,4615	No Armatura
22	22	COMB 6	1	103,958	369,828	4586,842	778,7775171	51,979	No Armatura
22	23	COMB 6	1	116,298	360,204	4586,842	758,512607	58,149	No Armatura
23	23	COMB 6	1	52,929	359,380	4586,842	756,7765278	26,4645	No Armatura
23	24	COMB 6	1	66,539	354,719	4586,842	746,9606466	33,2695	No Armatura
24	24	COMB 6	1	5,099	353,716	4586,842	744,8498592	2,5495	No Armatura
24	25	COMB 6	1	19,853	352,313	4586,842	741,8959217	9,9265	No Armatura
25	25	COMB 6	1	39,393	351,144	4586,842	739,4328399	19,6965	No Armatura
25	26	COMB 6	1	23,631	352,413	4586,842	742,1058198	11,8155	No Armatura
26	26	COMB 6	1	43,788	351,230	4586,842	739,6138139	21,894	No Armatura
26	27	COMB 6	1	27,460	352,858	4586,842	743,0435622	13,73	No Armatura
27	27	COMB 6	1	60,415	351,650	4586,842	740,4983908	30,2075	No Armatura
27	28	COMB 6	1	43,492	354,518	4586,842	746,5386112	21,746	No Armatura
28	28	COMB 6	1	93,957	353,150	4586,842	743,6594612	46,978	No Armatura
28	29	COMB 6	1	76,411	359,906	4586,842	751,792309	39,2055	No Armatura
28	29	COMB 6	1	124,382	357,337	4586,842	752,4739838	62,191	No Armatura
29	30	COMB 6	1	106,365	367,214	4586,842	773,2735873	53,1825	No Armatura
30	30	COMB 6	1	151,539	365,365	4586,842	769,378677	75,7895	No Armatura
30	31	COMB 6	1	133,205	382,335	4586,842	805,1140519	66,6025	No Armatura
31	31	COMB 6	1	175,291	380,060	4586,842	800,3235306	87,6455	No Armatura
31	32	COMB 6	1	156,798	412,268	4586,842	868,1477277	78,399	No Armatura
32	32	COMB 6	1	195,487	409,043	4586,842	861,3554424	97,7435	No Armatura
32	33	COMB 6	1	176,994	487,966	4586,842	1027,550868	88,497	No Armatura
33	33	COMB 6	1	211,359	481,921	4586,842	1014,820679	105,6795	No Armatura
33	34	COMB 6	1	193,025	576,206	4586,842	1213,365803	96,5125	No Armatura
34	34	COMB 6	1	221,582	576,206	4586,842	1213,365803	110,791	No Armatura
34	35	COMB 6	1	203,565	576,206	4586,842	1213,365803	101,7825	No Armatura
35	35	COMB 6	1	225,015	576,206	4586,842	1213,365803	112,5075	No Armatura
35	36	COMB 6	1	207,469	439,324	4586,842	925,1216791	103,7345	No Armatura
36	36	COMB 6	1	220,818	432,880	4586,842	911,5514085	110,409	No Armatura
36	37	COMB 6	1	203,895	378,584	4586,842	797,2155919	101,9475	No Armatura
37	37	COMB 6	1	194,455	375,160	4586,842	790,0060681	97,2275	No Armatura
37	38	COMB 6	1	178,127	354,107	4586,842	745,6724028	89,0635	No Armatura
38	38	COMB 6	1	151,707	351,988	4586,842	741,2109353	75,8535	No Armatura
38	39	COMB 6	1	135,946	342,344	4586,842	729,924734	67,273	No Armatura
39	39	COMB 6	1	129,116	340,438	4586,842	716,8892327	64,658	No Armatura
39	40	COMB 6	1	113,362	334,890	4586,842	705,2055087	56,681	No Armatura
40	40	COMB 6	1	97,419	333,469	4586,842	702,2134167	48,7095	No Armatura
40	41	COMB 6	1	83,809	330,468	4586,842	695,8948714	41,9045	No Armatura
41	41	COMB 6	1	60,469	329,469	4586,842	693,7906274	30,2345	No Armatura
41	42	COMB 6	1	48,129	328,297	4586,842	691,3229457	24,0645	No Armatura
42	42	COMB 6	1	18,382	327,684	4586,842	690,0316072	9,191	No Armatura
42	43	COMB 6	1	7,428	328,076	4586,842	690,8568492	3,714	No Armatura
43	43	COMB 6	1	27,588	327,831	4586,842	690,3416975	13,794	No Armatura
43	44	COMB 6	1	37,056	329,874	4586,842	694,6428888	18,528	No Armatura
44	44	COMB 6	1	76,125	330,001	4586,842	694,911	36,0625	No Armatura
44	45	COMB 6	1	84,018	334,216	4586,842	703,7863238	42,009	No Armatura
45	45	COMB 6	1	125,976	334,744	4586,842	704,8993179	62,98	No Armatura
45	46	COMB 6	1	132,221	342,480	4586,842	721,1880104	66,1105	No Armatura
46	46	COMB 6	1	176,055	343,487	4586,842	723,3086258	88,0275	No Armatura
46	47	COMB 6	1	180,595	358,282	4586,842	754,4638864	90,2975	No Armatura
47	47	COMB 6	1	225,572	359,957	4586,842	757,9910558	112,786	No Armatura
47	48	COMB 6	1	228,364	393,651	4586,842	828,9448768	114,182	No Armatura
48	48	COMB 6	1	225,962	397,766	4586,842	837,6088435	112,981	No Armatura
48	49	COMB 6	1	225,962	486,496	4586,842	1024,455921	112,981	No Armatura
49	49	COMB 6	1	359,107	485,869	4586,842	1023,135459	179,5535	No Armatura
49	50	COMB 6	1	359,107	576,206	4586,842	1213,365803	179,5535	No Armatura
50	50	COMB 6	1	496,932	576,206	4586,842	1213,365803	248,466	No Armatura
50	51	COMB 6	1	496,932	394,847	4586,842	831,4624097	248,466	7,771954304
51	51	COMB 6	1	639,447	394,521	4586,842	830,7759765	319,7235	10,0087107
51	52	COMB 6	1	639,447	338,939	4586,842	713,731712	319,7235	10,0087107
53	54	COMB 6	1	39,719	366,179	4586,842	771,0936332	19,8595	No Armatura
53	54	COMB 6	1	24,209	364,223	4586,842	766,9747458	12,1045	No Armatura
54	54	COMB 6	1	10,130	363,257	4586,842	764,9413853	5,065	No Armatura
54	55	COMB 6	1	5,778	363,596	4586,842	765,6540193	2,889	No Armatura
55	55	COMB 6	1	15,081	362,578	4586,842	763,5105771	7,5405	No Armatura
55	56	COMB 6	1	31,345	364,815	4586,842	768,2213489	15,6725	No Armatura
56	56	COMB 6	1	36,117	363,771	4586,842	766,0238223	18,0585	No Armatura
56	57	COMB 6	1	52,693	367,814	4586,842	774,5364552	26,3465	No Armatura
57	57	COMB 6	1	53,329	366,773	4586,842	772,3440015	26,6645	No Armatura
57	58	COMB 6	1	70,173	372,768	4586,842	784,968239	35,0865	No Armatura
58	58	COMB 6	1	67,188	371,760	4586,842	782,846441	33,594	No Armatura
58	59	COMB 6	1	84,255	380,126	4586,842	800,4639657	42,1275	No Armatura
59	59	COMB 6	1	78,262	379,189	4586,842	798,4891998	39,131	No Armatura
59	60	COMB 6	1	95,505	380,753	4586,842	822,8419866	47,525	No Armatura
60	60	COMB 6	1	87,182	389,989	4586			



Frame Text	Joint Text	StepType Text	Height m	Vsdu kN	Vrdu' kN	Vrdu'' kN	Vcd kN	Vwd <sub>min</sub> kN	Armatura cm²/m'
1	1	COMB 7	1	55,871	576,206	4586,842	1213,365803	27,9355	No Armatura
1	2	COMB 7	1	41,878	551,238	4586,842	1160,78762	20,939	No Armatura
2	2	COMB 7	1	55,779	551,194	4586,842	1160,694626	27,8895	No Armatura
2	3	COMB 7	1	38,321	505,955	4586,842	1065,432816	19,1605	No Armatura
3	3	COMB 7	1	53,070	506,599	4586,842	1066,788761	26,535	No Armatura
3	4	COMB 7	1	35,696	475,829	4586,842	1001,993519	17,848	No Armatura
4	4	COMB 7	1	49,224	476,983	4586,842	1004,422094	24,612	No Armatura
4	5	COMB 7	1	31,981	455,137	4586,842	958,420239	15,9905	No Armatura
5	5	COMB 7	1	43,767	456,645	4586,842	961,5965733	21,8835	No Armatura
5	6	COMB 7	1	26,700	440,966	4586,842	928,5787103	13,35	No Armatura
6	6	COMB 7	1	36,254	442,727	4586,842	932,2664562	18,127	No Armatura
6	7	COMB 7	1	19,410	431,796	4586,842	903,2696559	9,705	No Armatura
7	7	COMB 7	1	26,287	433,740	4586,842	913,3624557	13,1435	No Armatura
7	8	COMB 7	1	9,710	426,831	4586,842	899,024755	4,855	No Armatura
8	8	COMB 7	1	13,529	429,012	4586,842	903,4074998	6,7645	No Armatura
8	9	COMB 7	1	2,735	426,319	4586,842	897,7366063	1,3675	No Armatura
9	9	COMB 7	1	2,277	428,514	4586,842	902,3567476	1,1385	No Armatura
9	10	COMB 7	1	18,185	430,659	4586,842	906,8737166	9,0925	No Armatura
10	10	COMB 7	1	21,302	432,962	4586,842	911,7245387	10,651	No Armatura
10	11	COMB 7	1	36,812	441,926	4586,842	930,6008041	18,406	No Armatura
12	12	COMB 7	1	499,345	361,548	4586,842	761,3427174	249,6725	7.809693322
12	13	COMB 7	1	499,345	465,183	4586,842	979,5738014	249,6725	7.809693322
13	13	COMB 7	1	365,517	465,719	4586,842	980,703298	182,7585	No Armatura
13	14	COMB 7	1	365,517	576,206	4586,842	1213,365803	182,7585	No Armatura
14	14	COMB 7	1	236,379	576,206	4586,842	1213,365803	118,1895	No Armatura
14	15	COMB 7	1	236,379	513,766	4586,842	1081,879488	118,1895	No Armatura
15	15	COMB 7	1	111,921	514,473	4586,842	1083,368841	55,9605	No Armatura
15	16	COMB 7	1	111,921	443,047	4586,842	932,96084	55,9605	No Armatura
16	16	COMB 7	1	125,942	440,299	4586,842	927,1735825	62,971	No Armatura
16	17	COMB 7	1	123,150	399,722	4586,842	841,7278772	61,575	No Armatura
17	17	COMB 7	1	90,446	398,668	4586,842	839,5077236	45,223	No Armatura
18	18	COMB 7	1	85,906	379,999	4586,842	800,1965365	42,953	No Armatura
18	18	COMB 7	1	55,805	379,590	4586,842	799,3353007	27,9325	No Armatura
18	19	COMB 7	1	49,559	370,254	4586,842	776,6744889	24,7795	No Armatura
19	19	COMB 7	1	22,812	370,375	4586,842	779,9292816	11,406	No Armatura
19	20	COMB 7	1	14,918	366,354	4586,842	771,4631055	7,459	No Armatura
20	20	COMB 7	1	7,556	366,973	4586,842	772,7658984	3,778	No Armatura
20	21	COMB 7	1	17,024	366,876	4586,842	772,562095	8,512	No Armatura
21	21	COMB 7	1	34,281	368,004	4586,842	774,9364031	17,1405	No Armatura
21	22	COMB 7	1	45,236	371,661	4586,842	782,6369103	22,618	No Armatura
22	22	COMB 7	1	56,404	373,343	4586,842	786,1790426	28,202	No Armatura
22	23	COMB 7	1	68,743	381,540	4586,842	803,4411929	34,3715	No Armatura
23	23	COMB 7	1	73,119	383,862	4586,842	808,3299469	36,5595	No Armatura
23	24	COMB 7	1	86,729	398,680	4586,842	839,5340622	43,3645	No Armatura
24	24	COMB 7	1	83,838	401,781	4586,842	846,06305	41,919	No Armatura
24	25	COMB 7	1	98,593	427,821	4586,842	900,8979482	49,2965	No Armatura
25	25	COMB 7	1	88,278	431,943	4586,842	909,5784199	44,139	No Armatura
25	26	COMB 7	1	104,040	480,090	4586,842	1010,965367	52,02	No Armatura
26	26	COMB 7	1	116,247	485,153	4586,842	1021,628296	58,1235	No Armatura
26	27	COMB 7	1	132,574	576,206	4586,842	1213,365803	66,287	No Armatura
27	27	COMB 7	1	128,256	576,206	4586,842	1213,365803	64,128	No Armatura
27	28	COMB 7	1	145,179	576,206	4586,842	1213,365803	72,5695	No Armatura
28	28	COMB 7	1	118,678	576,206	4586,842	1213,365803	59,339	No Armatura
28	29	COMB 7	1	136,224	576,206	4586,842	1213,365803	68,112	No Armatura
28	29	COMB 7	1	104,068	576,206	4586,842	1213,365803	52,034	No Armatura
29	30	COMB 7	1	122,085	539,022	4586,842	1135,063019	61,0425	No Armatura
30	30	COMB 7	1	85,515	544,888	4586,842	1146,994464	42,7575	No Armatura
30	31	COMB 7	1	103,849	468,765	4586,842	987,1182319	51,9245	No Armatura
31	31	COMB 7	1	64,278	471,947	4586,842	993,8178904	32,139	No Armatura
31	32	COMB 7	1	82,771	437,647	4586,842	921,5890428	41,3855	No Armatura
32	32	COMB 7	1	41,731	439,433	4586,842	925,3502657	20,8655	No Armatura
32	33	COMB 7	1	60,224	422,287	4586,842	889,2446662	30,112	No Armatura
33	33	COMB 7	1	19,076	423,468	4586,842	891,7311134	9,538	No Armatura
33	34	COMB 7	1	37,410	415,768	4586,842	875,5181767	18,705	No Armatura
34	34	COMB 7	1	2,738	416,465	4586,842	876,9859006	1,369	No Armatura
34	35	COMB 7	1	15,280	415,366	4586,842	874,6708915	7,64	No Armatura
35	35	COMB 7	1	22,913	415,719	4586,842	875,4140596	11,4565	No Armatura
35	36	COMB 7	1	5,367	420,402	4586,842	885,2766977	2,6835	No Armatura
36	36	COMB 7	1	40,894	420,516	4586,842	885,5155484	20,447	No Armatura
36	37	COMB 7	1	23,971	431,517	4586,842	908,681038	11,9855	No Armatura
37	37	COMB 7	1	38,173	431,712	4586,842	909,0922823	19,0865	No Armatura
37	38	COMB 7	1	21,845	443,766	4586,842	934,4749746	10,9225	No Armatura
38	38	COMB 7	1	20,285	444,330	4586,842	935,653576	10,1425	No Armatura
38	39	COMB 7	1	4,524	450,877	4586,842	949,4498961	2,232	No Armatura
39	39	COMB 7	1	35,030	451,616	4586,842	951,0348326	17,515	No Armatura
39	40	COMB 7	1	20,276	466,008	4586,842	981,3112094	10,138	No Armatura
40	40	COMB 7	1	48,840	466,886	4586,842	983,1607633	24,42	No Armatura
40	41	COMB 7	1	35,230	492,710	4586,842	1037,540283	17,615	No Armatura
41	41	COMB 7	1	62,537	493,845	4586,842	1039,930637	31,2685	No Armatura
41	42	COMB 7	1	50,198	540,780	4586,842	1138,765823	25,099	No Armatura
42	42	COMB 7	1	77,088	542,294	4586,842	1141,954647	38,544	No Armatura
42	43	COMB 7	1	66,134	576,206	4586,842	1213,365803	33,067	No Armatura
43	43	COMB 7	1	93,457	576,206	4586,842	1213,365803	46,7285	No Armatura
43	44	COMB 7	1	83,989	576,206	4586,842	1213,365803	41,9945	No Armatura
44	44	COMB 7	1	112,478	576,206	4586,842	1213,365803	56,239	No Armatura
44	45	COMB 7	1	104,584	576,206	4586,842	1213,365803	52,292	No Armatura
45	45	COMB 7	1	134,655	576,206	4586,842	1213,365803	67,3275	No Armatura
45	46	COMB 7	1	128,409	576,206	4586,842	1213,365803	64,2045	No Armatura
46	46	COMB 7	1	160,013	576,206	4586,842	1213,365803	80,0065	No Armatura
46	47	COMB 7	1	155,473	541,066	4586,842	1139,36893	77,7365	No Armatura
47	47	COMB 7	1	187,959	539,422	4586,842	1135,906417	93,9795	No Armatura
47	48	COMB 7	1	185,167	443,924	4586,842	934,8088225	92,5835	No Armatura
48	48	COMB 7	1	279,254	439,464	4586,842	925,4157873	139,627	No Armatura
48	49	COMB 7	1	279,254	385,240	4586,842	811,231628	139,627	No Armatura
49	49	COMB 7	1	2,977	384,997	4586,842	810,7213411	1,4885	No Armatura
49	50	COMB 7	1	2,977	386,197	4586,842	813,2470766	1,4885	No Armatura
50	50	COMB 7	1	248,863	385,955	4586,842	812,7385882	123,4315	No Armatura
50	51	COMB 7	1	248,863	435,337	4586,842	916,7252329	123,4315	No Armatura
51	51	COMB 7	1	478,247	434,979	4586,842	915,9722832	239,1235	7.479723242
51	52	COMB 7	1	478,247	576,206	4586,842	1213,365803	239,1235	No Armatura
53	54	COMB 7	1	129,096	410,573	4586,842	864,5773516	64,548	No Armatura
53	54	COMB 7	1	113,586	446,705	4586,842	940,6638173	56,793	No Armatura
54	54	COMB 7	1	112,782	442,777	4586,842	932,3930842	56,391	No Armatura
54	55	COMB 7	1	96,873	494,711	4586,842	1041,75343	48,4365	No Armatura
55	55	COMB 7	1	99,114	489,828	4586,842	1031,472424	49,557	No Armatura
55	56	COMB 7	1	82,850	571,248	4586,842	1202,924811	41,425	No Armatura
56	56	COMB 7	1	87,947	564,982	4586,842	1189,730268	43,9735	No Armatura
56	57	COMB 7	1	71,371	576,206	4586,842	1213,365803	35,6855	No Armatura
57	57	COMB 7	1	79,085	576,206	4586,842	1213,365803	39,5425	No Armatura
57	58	COMB 7	1	62,241	576,206	4586,842	1213,365803	31,1205	No Armatura
58	58	COMB 7	1	72,279	576,206	4586,842	1213,365803	36,1395	No Armatura
58	59	COMB 7	1	55,212	576,206	4586,842	1213,365803	27,060	No Armatura
59	59	COMB 7	1	67,231	576,206	4586,842	1213,365803	33,6155	No Armatura
59	60	COMB 7	1	49,988	576,206	4586,842	1213,365803	24,994	No Armatura
60	60	COMB 7	1	63,594	576,206	4586,842	1213,365803	31,797	No Armatura
60	61	COMB 7	1	46,220	576,206	4586,842	1213,365803	23,111	No Armatura

## **Allegato 7**

### **Becco di Flauto**

#### **Dati di input SAP**

**Table: Combination Definitions, Part 1 of 2**

ComboName	ComboType	CaseType	CaseName	ScaleFactor	SteelDesign	ConcDesign
Text	Text	Text	Text	Unitless	Yes/No	Yes/No
COMB1	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB2	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB2		Linear Static	Fh_ka	1,000000		
COMB3	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB3		Linear Static	Fh_k0	1,000000		
COMB4	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB4		Linear Static	Fh_k0	1,000000		
COMB4		Linear Static	Esx	1,300000		
COMB4		Linear Static	Kv*PP	1,300000		
COMB4		Linear Static	Kh*PP	1,300000		
COMB5	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB5		Linear Static	Fh_k0	1,000000		
COMB5		Linear Static	Edx	1,300000		
COMB5		Linear Static	Kh*PP	-1,300000		
COMB5		Linear Static	Kv*PP	1,300000		
COMB6	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB6		Linear Static	Fh_k0	1,000000		
COMB6		Linear Static	Esx	1,300000		
COMB6		Linear Static	Kv*PP	-1,300000		
COMB6		Linear Static	Kh*PP	1,300000		
COMB7	Linear Add	Linear Static	DEAD	1,000000	No	No
COMB7		Linear Static	Fh_k0	1,000000		
COMB7		Linear Static	Edx	1,300000		
COMB7		Linear Static	Kv*PP	-1,300000		
COMB7		Linear Static	Kh*PP	-1,300000		

**Table: Combination Definitions, Part 2 of 2**

ComboName	CaseName	AlumDesign	ColdDesign
Text	Text	Yes/No	Yes/No
COMB1	DEAD	No	No
COMB2	DEAD	No	No

ComboName	CaseName	AlumDesign	ColdDesign
Text	Text	Yes/No	Yes/No
COMB2	Fh_ka		
COMB3	DEAD	No	No
COMB3	Fh_k0		
COMB4	DEAD	No	No
COMB4	Fh_k0		
COMB4	Esx		
COMB4	Kv*PP		
COMB4	Kh*PP		
COMB5	DEAD	No	No
COMB5	Fh_k0		
COMB5	Edx		
COMB5	Kh*PP		
COMB5	Kv*PP		
COMB6	DEAD	No	No
COMB6	Fh_k0		
COMB6	Esx		
COMB6	Kv*PP		
COMB6	Kh*PP		
COMB7	DEAD	No	No
COMB7	Fh_k0		
COMB7	Edx		
COMB7	Kv*PP		
COMB7	Kh*PP		

**Table: Connectivity - Frame**

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
1	1	2	No	0,55983	0,27985	-5,300E-15	-5,07760
2	2	3	No	0,69992	0,90888	-5,300E-15	-5,04828
3	3	4	No	0,69992	1,60553	-5,300E-15	-4,98320
4	4	5	No	0,69992	2,29789	-5,300E-15	-4,88216
5	5	6	No	0,69992	2,98409	-5,350E-15	-4,74545
6	6	7	No	0,69992	3,66230	-5,400E-15	-4,57341
7	7	8	No	0,69992	4,33070	-5,400E-15	-4,36652
8	8	9	No	0,69992	4,98750	-5,450E-15	-4,12533

Frame	JointI	JointJ	IsCurved	Length	CentroidX	CentroidY	CentroidZ
Text	Text	Text	Yes/No	m	m	m	m
9	9	10	No	0,69992	5,63095	-5,500E-15	-3,85049
10	10	11	No	0,69992	6,25931	-5,550E-15	-3,54272
11	11	12	No	2,03411	7,36476	-5,700E-15	-2,74668
12	12	13	No	0,74117	8,16000	-2,750E-15	-1,74207
13	13	14	No	0,74117	8,16000	2,000E-16	-1,00090
14	14	15	No	0,74117	8,16000	5,000E-17	-0,25974
15	15	16	No	0,74117	8,16000	-3,200E-15	0,48143
16	16	17	No	0,74050	8,10415	-6,450E-15	1,21803
17	17	18	No	0,74050	7,95750	-6,550E-15	1,94299
18	18	19	No	0,74050	7,74178	-6,700E-15	2,65048
19	19	20	No	0,74050	7,45900	-6,850E-15	3,33393
20	20	21	No	0,74050	7,11177	-6,950E-15	3,98701
43	43	44	No	0,74050	-7,11177	-6,950E-15	3,98701
44	44	45	No	0,74050	-7,45900	-6,850E-15	3,33393
45	45	46	No	0,74050	-7,74178	-6,700E-15	2,65048
46	46	47	No	0,74050	-7,95750	-6,550E-15	1,94299
47	47	48	No	0,74050	-8,10415	-6,450E-15	1,21803
48	48	49	No	0,74117	-8,16000	-6,300E-15	0,48143
49	49	50	No	0,74117	-8,16000	-6,150E-15	-0,25974
50	50	51	No	0,74117	-8,16000	-6,000E-15	-1,00090
51	51	52	No	0,74117	-8,16000	-5,850E-15	-1,74207
52	52	53	No	2,03411	-7,36476	-5,700E-15	-2,74668
53	53	54	No	0,69992	-6,25931	-5,550E-15	-3,54272
54	54	55	No	0,69992	-5,63095	-5,500E-15	-3,85049
55	55	56	No	0,69992	-4,98750	-5,450E-15	-4,12533
56	56	57	No	0,69992	-4,33070	-5,400E-15	-4,36652
57	57	58	No	0,69992	-3,66230	-5,400E-15	-4,57341
58	58	59	No	0,69992	-2,98409	-5,350E-15	-4,74545
59	59	60	No	0,69992	-2,29789	-5,300E-15	-4,88216
60	60	61	No	0,69992	-1,60553	-5,300E-15	-4,98320
61	61	62	No	0,69992	-0,90888	-5,300E-15	-5,04828
62	62	1	No	0,55983	-0,27985	-5,300E-15	-5,07760
1001	1001	52	No	1,26805	-8,16000	-5,700E-15	-2,74668
1002	1002	11	No	1,59049	7,36476	-2,650E-15	-3,38012
1011	1001	53	No	1,59049	-7,36476	-5,600E-15	-3,38071
1022	12	1002	No	1,26687	8,16000	-2,750E-15	-2,74609

**Table: Frame Section Assignments**

<b>Frame</b>	<b>SectionType</b>	<b>AutoSelect</b>	<b>AnalSect</b>	<b>DesignSect</b>	<b>MatProp</b>
Text	Text	Text	Text	Text	Text
1	Rectangular	N.A.	100	N.A.	Default
2	Rectangular	N.A.	100	N.A.	Default
3	Rectangular	N.A.	100	N.A.	Default
4	Rectangular	N.A.	100	N.A.	Default
5	Rectangular	N.A.	100	N.A.	Default
6	Rectangular	N.A.	100	N.A.	Default
7	Rectangular	N.A.	100	N.A.	Default
8	Rectangular	N.A.	100	N.A.	Default
9	Rectangular	N.A.	100	N.A.	Default
10	Rectangular	N.A.	100	N.A.	Default
11	Rectangular	N.A.	100	N.A.	Default
12	Rectangular	N.A.	100T	N.A.	Default
13	Rectangular	N.A.	100B	N.A.	Default
14	Rectangular	N.A.	100B	N.A.	Default
15	Rectangular	N.A.	100B	N.A.	Default
16	Rectangular	N.A.	100B	N.A.	Default
17	Rectangular	N.A.	100B	N.A.	Default
18	Rectangular	N.A.	100B	N.A.	Default
19	Rectangular	N.A.	100T	N.A.	Default
20	Rectangular	N.A.	100T	N.A.	Default
43	Rectangular	N.A.	100T	N.A.	Default
44	Rectangular	N.A.	100T	N.A.	Default
45	Rectangular	N.A.	100B	N.A.	Default
46	Rectangular	N.A.	100B	N.A.	Default
47	Rectangular	N.A.	100B	N.A.	Default
48	Rectangular	N.A.	100B	N.A.	Default
49	Rectangular	N.A.	100B	N.A.	Default
50	Rectangular	N.A.	100B	N.A.	Default
51	Rectangular	N.A.	100T	N.A.	Default
52	Rectangular	N.A.	100	N.A.	Default
53	Rectangular	N.A.	100	N.A.	Default
54	Rectangular	N.A.	100	N.A.	Default
55	Rectangular	N.A.	100	N.A.	Default
56	Rectangular	N.A.	100	N.A.	Default
57	Rectangular	N.A.	100	N.A.	Default
58	Rectangular	N.A.	100	N.A.	Default
59	Rectangular	N.A.	100	N.A.	Default
60	Rectangular	N.A.	100	N.A.	Default

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
Text	Text	Text	Text	Text	Text
61	Rectangular	N.A.	100	N.A.	Default
62	Rectangular	N.A.	100	N.A.	Default
1001	Rectangular	N.A.	100T	N.A.	Default
1002	Rectangular	N.A.	100	N.A.	Default
1011	Rectangular	N.A.	100	N.A.	Default
1022	Rectangular	N.A.	100T	N.A.	Default

**Table: Frame Section Properties 01 - General, Part 1 of 5**

SectionName	Material	Shape	t3	t2	Area	TorsConst
Text	Text	Text	m	m	m2	m4
100	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833
100B	CLS35	Rectangular	0,900000	1,000000	0,900000	0,112752
100T	CLS35	Rectangular	0,900000	1,000000	0,900000	0,112752
FSEC1	CLS35	Rectangular	1,000000	1,000000	1,000000	0,140833

**Table: Frame Section Properties 01 - General, Part 2 of 5**

SectionName	I33	I22	AS2	AS3	S33	S22	Z33
Text	m4	m4	m2	m2	m3	m3	m3
100	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000
100B	0,060750	0,075000	0,750000	0,750000	0,135000	0,150000	0,202500
100T	0,060750	0,075000	0,750000	0,750000	0,135000	0,150000	0,202500
FSEC1	0,083333	0,083333	0,833333	0,833333	0,166667	0,166667	0,250000

**Table: Frame Section Properties 01 - General, Part 3 of 5**

SectionName	Z22	R33	R22	ConcCol	ConcBeam	Color	TotalWt
Text	m3	m	m	Yes/No	Yes/No	Text	KN
100	0,250000	0,288675	0,288675	Yes	No	White	524,186
100B	0,225000	0,259808	0,288675	Yes	No	White	200,026
100T	0,225000	0,259808	0,288675	Yes	No	White	157,034
FSEC1	0,250000	0,288675	0,288675	Yes	No	White	0,000

**Table: Frame Section Properties 01 - General, Part 4 of 5**

SectionName	TotalMass	FromFile	AMod	A2Mod	A3Mod	JMod	I2Mod
Text	KN-s2/m	Yes/No	Unitless	Unitless	Unitless	Unitless	Unitless
100	53,47	No	1,000000	1,000000	1,000000	1,000000	1,000000
100B	20,40	No	1,000000	1,000000	1,000000	1,000000	1,000000
100T	16,02	No	1,000000	1,000000	1,000000	1,000000	1,000000
FSEC1	0,00	No	1,000000	1,000000	1,000000	1,000000	1,000000

**Table: Frame Section Properties 01 - General, Part 5 of 5**

SectionName	I3Mod	MMod	WMod
Text	Unitless	Unitless	Unitless
100	1,000000	1,000000	1,000000
100B	1,000000	1,000000	1,000000
100T	1,000000	1,000000	1,000000
FSEC1	1,000000	1,000000	1,000000



**Table: Joint Coordinates, Part 1 of 2**

Joint Text	CoordSys Text	CoordType Text	XorR m	Y m	Z m	SpecialJt Yes/No	GlobalX m
1	GLOBAL	Cartesian	2,700E-15	-5,300E-15	-5,08339	No	2,700E-15
2	GLOBAL	Cartesian	0,55971	-5,300E-15	-5,07181	No	0,55971
3	GLOBAL	Cartesian	1,25805	-5,300E-15	-5,02476	No	1,25805
4	GLOBAL	Cartesian	1,95302	-5,300E-15	-4,94164	No	1,95302
5	GLOBAL	Cartesian	2,64276	-5,300E-15	-4,82269	No	2,64276
6	GLOBAL	Cartesian	3,32542	-5,400E-15	-4,66821	No	3,32542
7	GLOBAL	Cartesian	3,99917	-5,400E-15	-4,47862	No	3,99917
8	GLOBAL	Cartesian	4,66222	-5,400E-15	-4,25443	No	4,66222
9	GLOBAL	Cartesian	5,31278	-5,500E-15	-3,99624	No	5,31278
10	GLOBAL	Cartesian	5,94911	-5,500E-15	-3,70474	No	5,94911
11	GLOBAL	Cartesian	6,56951	-5,600E-15	-3,38071	No	6,56951
12	GLOBAL	Cartesian	8,16000	-5,800E-15	-2,11266	No	8,16000
13	GLOBAL	Cartesian	8,16000	3,000E-16	-1,37149	No	8,16000
14	GLOBAL	Cartesian	8,16000	1,000E-16	-0,63032	No	8,16000
15	GLOBAL	Cartesian	8,16000	0,00000	0,11085	No	8,16000
16	GLOBAL	Cartesian	8,16000	-6,400E-15	0,85202	No	8,16000
17	GLOBAL	Cartesian	8,04830	-6,500E-15	1,58405	No	8,04830
18	GLOBAL	Cartesian	7,86670	-6,600E-15	2,30194	No	7,86670
19	GLOBAL	Cartesian	7,61687	-6,800E-15	2,99902	No	7,61687
20	GLOBAL	Cartesian	7,30113	-6,900E-15	3,66884	No	7,30113
21	GLOBAL	Cartesian	6,92242	-7,000E-15	4,30518	No	6,92242
43	GLOBAL	Cartesian	-6,92242	-7,000E-15	4,30518	No	-6,92242
44	GLOBAL	Cartesian	-7,30113	-6,900E-15	3,66884	No	-7,30113
45	GLOBAL	Cartesian	-7,61687	-6,800E-15	2,99902	No	-7,61687
46	GLOBAL	Cartesian	-7,86670	-6,600E-15	2,30194	No	-7,86670
47	GLOBAL	Cartesian	-8,04830	-6,500E-15	1,58405	No	-8,04830
48	GLOBAL	Cartesian	-8,16000	-6,400E-15	0,85202	No	-8,16000
49	GLOBAL	Cartesian	-8,16000	-6,200E-15	0,11085	No	-8,16000
50	GLOBAL	Cartesian	-8,16000	-6,100E-15	-0,63032	No	-8,16000
51	GLOBAL	Cartesian	-8,16000	-5,900E-15	-1,37149	No	-8,16000
52	GLOBAL	Cartesian	-8,16000	-5,800E-15	-2,11266	No	-8,16000
53	GLOBAL	Cartesian	-6,56951	-5,600E-15	-3,38071	No	-6,56951
54	GLOBAL	Cartesian	-5,94911	-5,500E-15	-3,70474	No	-5,94911
55	GLOBAL	Cartesian	-5,31278	-5,500E-15	-3,99624	No	-5,31278
56	GLOBAL	Cartesian	-4,66222	-5,400E-15	-4,25443	No	-4,66222
57	GLOBAL	Cartesian	-3,99917	-5,400E-15	-4,47862	No	-3,99917
58	GLOBAL	Cartesian	-3,32542	-5,400E-15	-4,66821	No	-3,32542
59	GLOBAL	Cartesian	-2,64276	-5,300E-15	-4,82269	No	-2,64276

Joint	CoordSys	CoordType	XorR	Y	Z	SpecialJt	GlobalX
Text	Text	Text	m	m	m	Yes/No	m
60	GLOBAL	Cartesian	-1,95302	-5,300E-15	-4,94164	No	-1,95302
61	GLOBAL	Cartesian	-1,25805	-5,300E-15	-5,02476	No	-1,25805
62	GLOBAL	Cartesian	-0,55971	-5,300E-15	-5,07181	No	-0,55971
1001	GLOBAL	Cartesian	-8,16000	-5,600E-15	-3,38071	No	-8,16000
1002	GLOBAL	Cartesian	8,16000	3,000E-16	-3,37952	No	8,16000

**Table: Joint Coordinates, Part 2 of 2**

Joint	GlobalY	GlobalZ
Text	m	m
1	-5,300E-15	-5,08339
2	-5,300E-15	-5,07181
3	-5,300E-15	-5,02476
4	-5,300E-15	-4,94164
5	-5,300E-15	-4,82269
6	-5,400E-15	-4,66821
7	-5,400E-15	-4,47862
8	-5,400E-15	-4,25443
9	-5,500E-15	-3,99624
10	-5,500E-15	-3,70474
11	-5,600E-15	-3,38071
12	-5,800E-15	-2,11266
13	3,000E-16	-1,37149
14	1,000E-16	-0,63032
15	0,00000	0,11085
16	-6,400E-15	0,85202
17	-6,500E-15	1,58405
18	-6,600E-15	2,30194
19	-6,800E-15	2,99902
20	-6,900E-15	3,66884
21	-7,000E-15	4,30518
43	-7,000E-15	4,30518
44	-6,900E-15	3,66884
45	-6,800E-15	2,99902
46	-6,600E-15	2,30194
47	-6,500E-15	1,58405

Joint	GlobalY	GlobalZ
Text	m	m
48	-6,400E-15	0,85202
49	-6,200E-15	0,11085
50	-6,100E-15	-0,63032
51	-5,900E-15	-1,37149
52	-5,800E-15	-2,11266
53	-5,600E-15	-3,38071
54	-5,500E-15	-3,70474
55	-5,500E-15	-3,99624
56	-5,400E-15	-4,25443
57	-5,400E-15	-4,47862
58	-5,400E-15	-4,66821
59	-5,300E-15	-4,82269
60	-5,300E-15	-4,94164
61	-5,300E-15	-5,02476
62	-5,300E-15	-5,07181
1001	-5,600E-15	-3,38071
1002	3,000E-16	-3,37952

**Table: Joint Loads - Force, Part 1 of 2**

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
11	Kv*PP	GLOBAL	0,000	0,000	-3,380	0,0000	0,0000
11	Kh*PP	GLOBAL	6,750	0,000	0,000	0,0000	0,0000
12	Fh_k0	GLOBAL	-37,870	0,000	0,000	0,0000	0,0000
12	Fh_kd	GLOBAL	-45,406	0,000	0,000	0,0000	0,0000
12	Fh_ka	GLOBAL	-24,066	0,000	0,000	0,0000	0,0000
12	Edx	GLOBAL	-26,950	0,000	0,000	0,0000	0,0000
12	Kv*PP	GLOBAL	0,000	0,000	-2,960	0,0000	0,0000
12	Kh*PP	GLOBAL	5,920	0,000	0,000	0,0000	0,0000
16	Fh_k0	GLOBAL	-9,159	0,000	0,000	0,0000	0,0000
16	Fh_kd	GLOBAL	-10,982	0,000	0,000	0,0000	0,0000
16	Fh_ka	GLOBAL	-5,821	0,000	0,000	0,0000	0,0000
16	Edx	GLOBAL	-19,770	0,000	0,000	0,0000	0,0000
16	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
16	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
17	Fh_k0	GLOBAL	-4,488	0,000	0,000	0,0000	0,0000
17	Fh_kd	GLOBAL	-5,382	0,000	0,000	0,0000	0,0000
17	Fh_ka	GLOBAL	-2,852	0,000	0,000	0,0000	0,0000
17	Edx	GLOBAL	-19,460	0,000	0,000	0,0000	0,0000
17	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
17	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
18	Fh_k0	GLOBAL	-0,025	0,000	0,000	0,0000	0,0000
18	Fh_kd	GLOBAL	-0,030	0,000	0,000	0,0000	0,0000
18	Fh_ka	GLOBAL	-0,016	0,000	0,000	0,0000	0,0000
18	Edx	GLOBAL	-9,630	0,000	0,000	0,0000	0,0000
18	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
18	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
19	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
19	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
20	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
20	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
21	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
21	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
1	Kv*PP	GLOBAL	0,000	0,000	-1,650	0,0000	0,0000
1	Kh*PP	GLOBAL	3,300	0,000	0,000	0,0000	0,0000
2	Kv*PP	GLOBAL	0,000	0,000	-1,860	0,0000	0,0000
2	Kh*PP	GLOBAL	3,710	0,000	0,000	0,0000	0,0000
3	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
3	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
4	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
4	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
5	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
5	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
6	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
6	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
7	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
7	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
8	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
8	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
9	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
9	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
10	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
10	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
62	Kv*PP	GLOBAL	0,000	0,000	-1,860	0,0000	0,0000
62	Kh*PP	GLOBAL	3,710	0,000	0,000	0,0000	0,0000
61	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
61	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
1001	Fh_k0	GLOBAL	30,771	0,000	0,000	0,0000	0,0000
1001	Fh_kd	GLOBAL	36,895	0,000	0,000	0,0000	0,0000
1001	Fh_ka	GLOBAL	19,555	0,000	0,000	0,0000	0,0000
1001	Esx	GLOBAL	17,020	0,000	0,000	0,0000	0,0000
1001	Kv*PP	GLOBAL	0,000	0,000	-4,210	0,0000	0,0000
1001	Kh*PP	GLOBAL	8,420	0,000	0,000	0,0000	0,0000
53	Kv*PP	GLOBAL	0,000	0,000	-3,380	0,0000	0,0000
53	Kh*PP	GLOBAL	6,750	0,000	0,000	0,0000	0,0000
52	Fh_k0	GLOBAL	37,892	0,000	0,000	0,0000	0,0000
52	Fh_kd	GLOBAL	45,433	0,000	0,000	0,0000	0,0000
52	Fh_ka	GLOBAL	24,080	0,000	0,000	0,0000	0,0000
52	Esx	GLOBAL	26,960	0,000	0,000	0,0000	0,0000
52	Kv*PP	GLOBAL	0,000	0,000	-2,960	0,0000	0,0000
52	Kh*PP	GLOBAL	5,920	0,000	0,000	0,0000	0,0000
48	Fh_k0	GLOBAL	9,159	0,000	0,000	0,0000	0,0000
48	Fh_kd	GLOBAL	10,982	0,000	0,000	0,0000	0,0000
48	Fh_ka	GLOBAL	5,821	0,000	0,000	0,0000	0,0000
48	Esx	GLOBAL	19,770	0,000	0,000	0,0000	0,0000
48	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
48	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
47	Fh_k0	GLOBAL	4,488	0,000	0,000	0,0000	0,0000
47	Fh_kd	GLOBAL	5,382	0,000	0,000	0,0000	0,0000
47	Fh_ka	GLOBAL	2,852	0,000	0,000	0,0000	0,0000
47	Esx	GLOBAL	19,460	0,000	0,000	0,0000	0,0000
47	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
47	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
46	Fh_k0	GLOBAL	0,025	0,000	0,000	0,0000	0,0000
46	Fh_kd	GLOBAL	0,030	0,000	0,000	0,0000	0,0000
46	Fh_ka	GLOBAL	0,016	0,000	0,000	0,0000	0,0000
46	Esx	GLOBAL	9,630	0,000	0,000	0,0000	0,0000
46	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
46	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
45	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
45	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
44	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
44	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
43	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
43	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
60	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
60	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
59	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
59	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
58	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
58	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
57	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
57	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
56	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
56	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
55	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
55	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
54	Kv*PP	GLOBAL	0,000	0,000	-2,060	0,0000	0,0000
54	Kh*PP	GLOBAL	4,130	0,000	0,000	0,0000	0,0000
15	Fh_k0	GLOBAL	-13,901	0,000	0,000	0,0000	0,0000
15	Fh_kd	GLOBAL	-16,667	0,000	0,000	0,0000	0,0000
15	Fh_ka	GLOBAL	-8,834	0,000	0,000	0,0000	0,0000
15	Edx	GLOBAL	-19,890	0,000	0,000	0,0000	0,0000
15	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
15	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
14	Fh_k0	GLOBAL	-18,586	0,000	0,000	0,0000	0,0000
14	Fh_kd	GLOBAL	-22,285	0,000	0,000	0,0000	0,0000
14	Fh_ka	GLOBAL	-11,811	0,000	0,000	0,0000	0,0000
14	Edx	GLOBAL	-19,890	0,000	0,000	0,0000	0,0000
14	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
14	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
13	Fh_k0	GLOBAL	-23,271	0,000	0,000	0,0000	0,0000
13	Fh_kd	GLOBAL	-27,902	0,000	0,000	0,0000	0,0000
13	Fh_ka	GLOBAL	-14,789	0,000	0,000	0,0000	0,0000
13	Edx	GLOBAL	-19,890	0,000	0,000	0,0000	0,0000
13	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
13	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
50	Fh_k0	GLOBAL	18,586	0,000	0,000	0,0000	0,0000
50	Fh_kd	GLOBAL	22,285	0,000	0,000	0,0000	0,0000
50	Fh_ka	GLOBAL	11,811	0,000	0,000	0,0000	0,0000
50	Esx	GLOBAL	19,890	0,000	0,000	0,0000	0,0000
50	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
50	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
51	Fh_k0	GLOBAL	23,271	0,000	0,000	0,0000	0,0000
51	Fh_kd	GLOBAL	27,902	0,000	0,000	0,0000	0,0000
51	Fh_ka	GLOBAL	14,789	0,000	0,000	0,0000	0,0000
51	Esx	GLOBAL	19,890	0,000	0,000	0,0000	0,0000
51	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000

Joint	LoadCase	CoordSys	F1	F2	F3	M1	M2
Text	Text	Text	KN	KN	KN	KN-m	KN-m
51	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
49	Fh_k0	GLOBAL	13,901	0,000	0,000	0,0000	0,0000
49	Fh_kd	GLOBAL	16,667	0,000	0,000	0,0000	0,0000
49	Fh_ka	GLOBAL	8,834	0,000	0,000	0,0000	0,0000
49	Esx	GLOBAL	19,890	0,000	0,000	0,0000	0,0000
49	Kv*PP	GLOBAL	0,000	0,000	-2,180	0,0000	0,0000
49	Kh*PP	GLOBAL	4,370	0,000	0,000	0,0000	0,0000
1002	Fh_k0	GLOBAL	-30,736	0,000	0,000	0,0000	0,0000
1002	Fh_kd	GLOBAL	-36,853	0,000	0,000	0,0000	0,0000
1002	Fh_ka	GLOBAL	-19,532	0,000	0,000	0,0000	0,0000
1002	Edx	GLOBAL	-17,020	0,000	0,000	0,0000	0,0000
1002	Kv*PP	GLOBAL	0,000	0,000	-4,210	0,0000	0,0000
1002	Kh*PP	GLOBAL	8,420	0,000	0,000	0,0000	0,0000

**Table: Joint Loads - Force, Part 2 of 2**

Joint	LoadCase	M3
Text	Text	KN-m
11	Kv*PP	0,0000
11	Kh*PP	0,0000
12	Fh_k0	0,0000
12	Fh_kd	0,0000
12	Fh_ka	0,0000
12	Edx	0,0000
12	Kv*PP	0,0000
12	Kh*PP	0,0000
16	Fh_k0	0,0000
16	Fh_kd	0,0000
16	Fh_ka	0,0000
16	Edx	0,0000
16	Kv*PP	0,0000
16	Kh*PP	0,0000
17	Fh_k0	0,0000
17	Fh_kd	0,0000
17	Fh_ka	0,0000
17	Edx	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
17	Kv*PP	0,0000
17	Kh*PP	0,0000
18	Fh_k0	0,0000
18	Fh_kd	0,0000
18	Fh_ka	0,0000
18	Edx	0,0000
18	Kv*PP	0,0000
18	Kh*PP	0,0000
19	Kv*PP	0,0000
19	Kh*PP	0,0000
20	Kv*PP	0,0000
20	Kh*PP	0,0000
21	Kv*PP	0,0000
21	Kh*PP	0,0000
1	Kv*PP	0,0000
1	Kh*PP	0,0000
2	Kv*PP	0,0000
2	Kh*PP	0,0000
3	Kv*PP	0,0000
3	Kh*PP	0,0000
4	Kv*PP	0,0000
4	Kh*PP	0,0000
5	Kv*PP	0,0000
5	Kh*PP	0,0000
6	Kv*PP	0,0000
6	Kh*PP	0,0000
7	Kv*PP	0,0000
7	Kh*PP	0,0000
8	Kv*PP	0,0000
8	Kh*PP	0,0000
9	Kv*PP	0,0000
9	Kh*PP	0,0000
10	Kv*PP	0,0000
10	Kh*PP	0,0000
62	Kv*PP	0,0000
62	Kh*PP	0,0000
61	Kv*PP	0,0000
61	Kh*PP	0,0000
1001	Fh_k0	0,0000
1001	Fh_kd	0,0000
1001	Fh_ka	0,0000



<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
1001	Esx	0,0000
1001	Kv*PP	0,0000
1001	Kh*PP	0,0000
53	Kv*PP	0,0000
53	Kh*PP	0,0000
52	Fh_k0	0,0000
52	Fh_kd	0,0000
52	Fh_ka	0,0000
52	Esx	0,0000
52	Kv*PP	0,0000
52	Kh*PP	0,0000
48	Fh_k0	0,0000
48	Fh_kd	0,0000
48	Fh_ka	0,0000
48	Esx	0,0000
48	Kv*PP	0,0000
48	Kh*PP	0,0000
47	Fh_k0	0,0000
47	Fh_kd	0,0000
47	Fh_ka	0,0000
47	Esx	0,0000
47	Kv*PP	0,0000
47	Kh*PP	0,0000
46	Fh_k0	0,0000
46	Fh_kd	0,0000
46	Fh_ka	0,0000
46	Esx	0,0000
46	Kv*PP	0,0000
46	Kh*PP	0,0000
45	Kv*PP	0,0000
45	Kh*PP	0,0000
44	Kv*PP	0,0000
44	Kh*PP	0,0000
43	Kv*PP	0,0000
43	Kh*PP	0,0000
60	Kv*PP	0,0000
60	Kh*PP	0,0000
59	Kv*PP	0,0000
59	Kh*PP	0,0000
58	Kv*PP	0,0000
58	Kh*PP	0,0000

<b>Joint</b>	<b>LoadCase</b>	<b>M3</b>
Text	Text	KN-m
57	Kv*PP	0,0000
57	Kh*PP	0,0000
56	Kv*PP	0,0000
56	Kh*PP	0,0000
55	Kv*PP	0,0000
55	Kh*PP	0,0000
54	Kv*PP	0,0000
54	Kh*PP	0,0000
15	Fh_k0	0,0000
15	Fh_kd	0,0000
15	Fh_ka	0,0000
15	Edx	0,0000
15	Kv*PP	0,0000
15	Kh*PP	0,0000
14	Fh_k0	0,0000
14	Fh_kd	0,0000
14	Fh_ka	0,0000
14	Edx	0,0000
14	Kv*PP	0,0000
14	Kh*PP	0,0000
13	Fh_k0	0,0000
13	Fh_kd	0,0000
13	Fh_ka	0,0000
13	Edx	0,0000
13	Kv*PP	0,0000
13	Kh*PP	0,0000
50	Fh_k0	0,0000
50	Fh_kd	0,0000
50	Fh_ka	0,0000
50	Esx	0,0000
50	Kv*PP	0,0000
50	Kh*PP	0,0000
51	Fh_k0	0,0000
51	Fh_kd	0,0000
51	Fh_ka	0,0000
51	Esx	0,0000
51	Kv*PP	0,0000
51	Kh*PP	0,0000
49	Fh_k0	0,0000
49	Fh_kd	0,0000
49	Fh_ka	0,0000

Joint	LoadCase	M3
Text	Text	KN-m
49	Esx	0,0000
49	Kv*PP	0,0000
49	Kh*PP	0,0000
1002	Fh_k0	0,0000
1002	Fh_kd	0,0000
1002	Fh_ka	0,0000
1002	Edx	0,0000
1002	Kv*PP	0,0000
1002	Kh*PP	0,0000

**Table: Joint Spring Assignments 1 - Uncoupled**

Joint	CoordSys	U1	U2	U3	R1	R2	R3
Text	Text	KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
11	Local	0,00	0,00	37118,12	0,0000	0,0000	0,0000
12	Local	87623,64	0,00	0,00	0,0000	0,0000	0,0000
16	Local	3503,45	0,00	0,00	0,0000	0,0000	0,0000
17	Local	3448,09	0,00	0,00	0,0000	0,0000	0,0000
18	Local	3364,97	0,00	0,00	0,0000	0,0000	0,0000
1	Local	0,00	0,00	3394,99	0,0000	0,0000	0,0000
2	Local	0,00	0,00	3815,43	0,0000	0,0000	0,0000
3	Local	0,00	0,00	4225,64	0,0000	0,0000	0,0000
4	Local	0,00	0,00	4199,56	0,0000	0,0000	0,0000
5	Local	0,00	0,00	4162,23	0,0000	0,0000	0,0000
6	Local	0,00	0,00	4113,73	0,0000	0,0000	0,0000
7	Local	0,00	0,00	4054,26	0,0000	0,0000	0,0000
8	Local	0,00	0,00	3983,93	0,0000	0,0000	0,0000
9	Local	0,00	0,00	3902,89	0,0000	0,0000	0,0000
10	Local	0,00	0,00	3811,42	0,0000	0,0000	0,0000
62	Local	0,00	0,00	3815,43	0,0000	0,0000	0,0000
61	Local	0,00	0,00	4225,64	0,0000	0,0000	0,0000
1001	Local	58577,90	0,00	26702,37	0,0000	0,0000	0,0000
53	Local	0,00	0,00	37118,12	0,0000	0,0000	0,0000
52	Local	87623,74	0,00	0,00	0,0000	0,0000	0,0000
48	Local	3503,45	0,00	0,00	0,0000	0,0000	0,0000
47	Local	3448,09	0,00	0,00	0,0000	0,0000	0,0000

Joint	CoordSys	U1	U2	U3	R1	R2	R3
Text	Text	KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
46	Local	3364,97	0,00	0,00	0,0000	0,0000	0,0000
60	Local	0,00	0,00	4199,56	0,0000	0,0000	0,0000
59	Local	0,00	0,00	4162,23	0,0000	0,0000	0,0000
58	Local	0,00	0,00	4113,73	0,0000	0,0000	0,0000
57	Local	0,00	0,00	4054,26	0,0000	0,0000	0,0000
56	Local	0,00	0,00	3983,93	0,0000	0,0000	0,0000
55	Local	0,00	0,00	3902,89	0,0000	0,0000	0,0000
54	Local	0,00	0,00	3811,42	0,0000	0,0000	0,0000
15	Local	62651,17	0,00	0,00	0,0000	0,0000	0,0000
14	Local	63464,09	0,00	0,00	0,0000	0,0000	0,0000
13	Local	64109,16	0,00	0,00	0,0000	0,0000	0,0000
50	Local	63464,09	0,00	0,00	0,0000	0,0000	0,0000
51	Local	64109,16	0,00	0,00	0,0000	0,0000	0,0000
49	Local	62651,17	0,00	0,00	0,0000	0,0000	0,0000
1002	Local	58577,90	0,00	26702,37	0,0000	0,0000	0,0000

**Table: Load Case Definitions**

LoadCase	DesignType	SelfWtMult	AutoLoad
Text	Text	Unitless	Text
DEAD	DEAD	1,000000	
Fh_ka	DEAD	0,000000	
Fh_k0	DEAD	0,000000	
Fh_kd	DEAD	0,000000	
Esx	DEAD	0,000000	
Edx	DEAD	0,000000	
Kv*PP	DEAD	0,000000	
Kh*PP	DEAD	0,000000	

**Table: Program Control, Part 1 of 3**

<b>ProgramName</b>	<b>Version</b>	<b>ProgLevel</b>	<b>LicenseOS</b>	<b>LicenseSC</b>	<b>LicenseBR</b>	<b>LicenseHT</b>
Text	Text	Text	Yes/No	Yes/No	Yes/No	Yes/No
SAP2000	9.1.9	Basic	No	No	No	No

**Table: Program Control, Part 2 of 3**

<b>CurrUnits</b>	<b>SteelCode</b>	<b>ConcCode</b>	<b>AlumCode</b>
Text	Text	Text	Text
KN, m, C	AISC-LRFD93	ACI 318-02	AA-ASD 2000

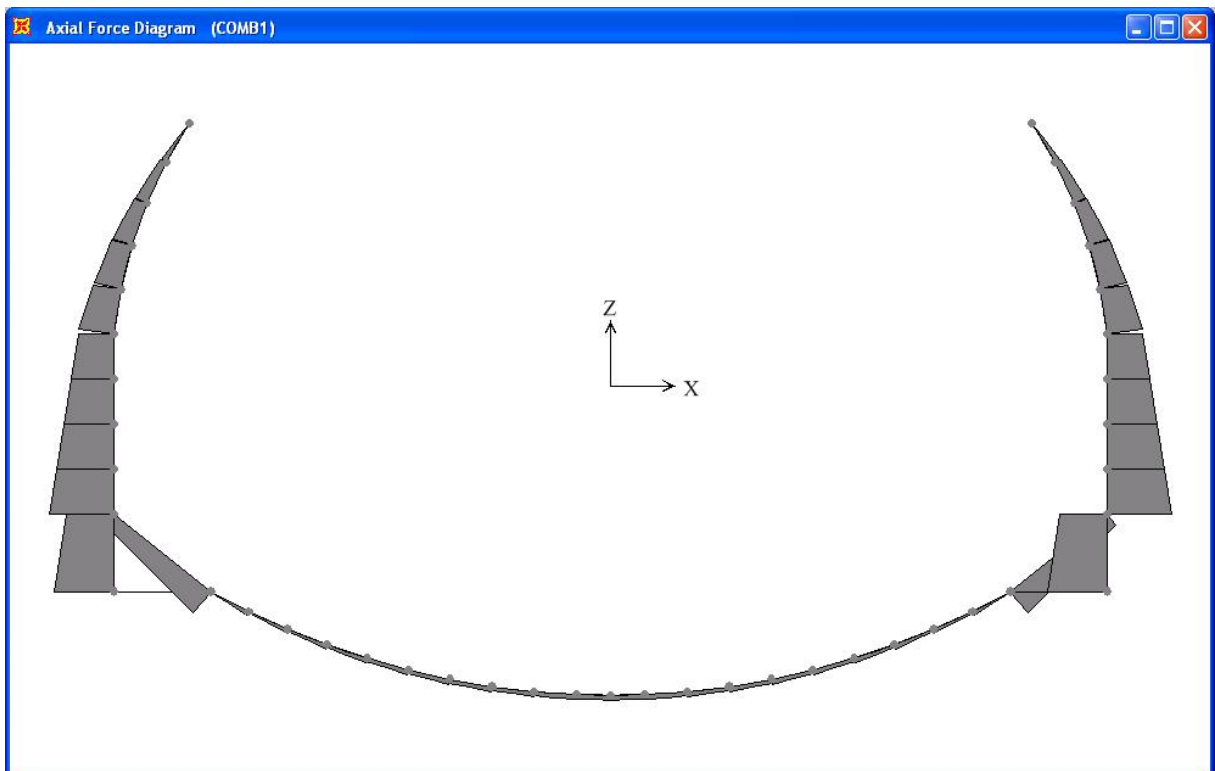
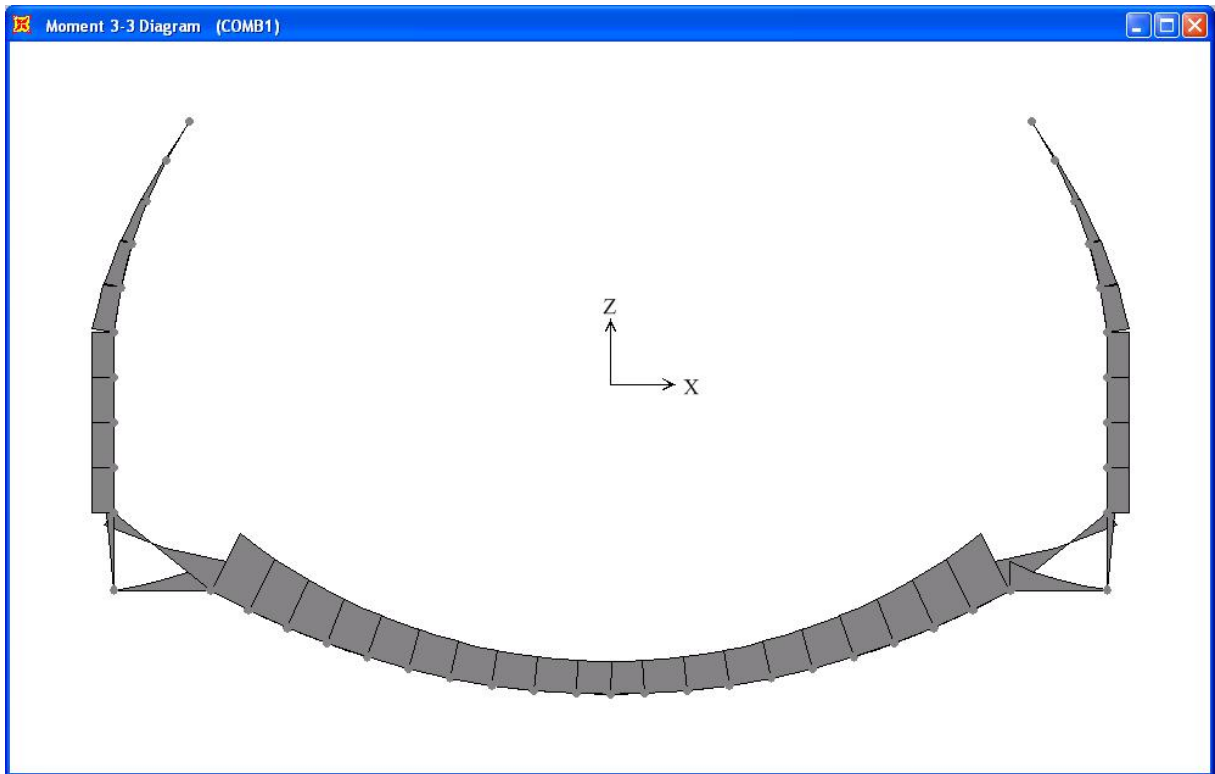
**Table: Program Control, Part 3 of 3**

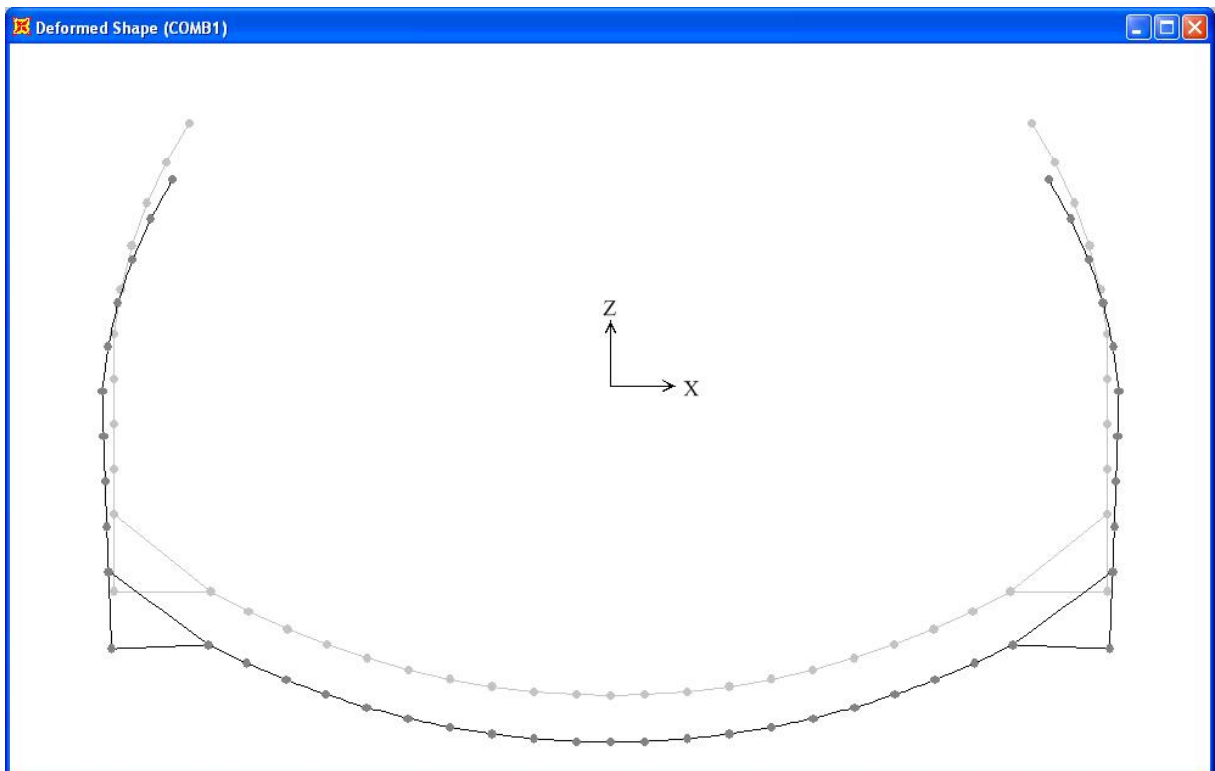
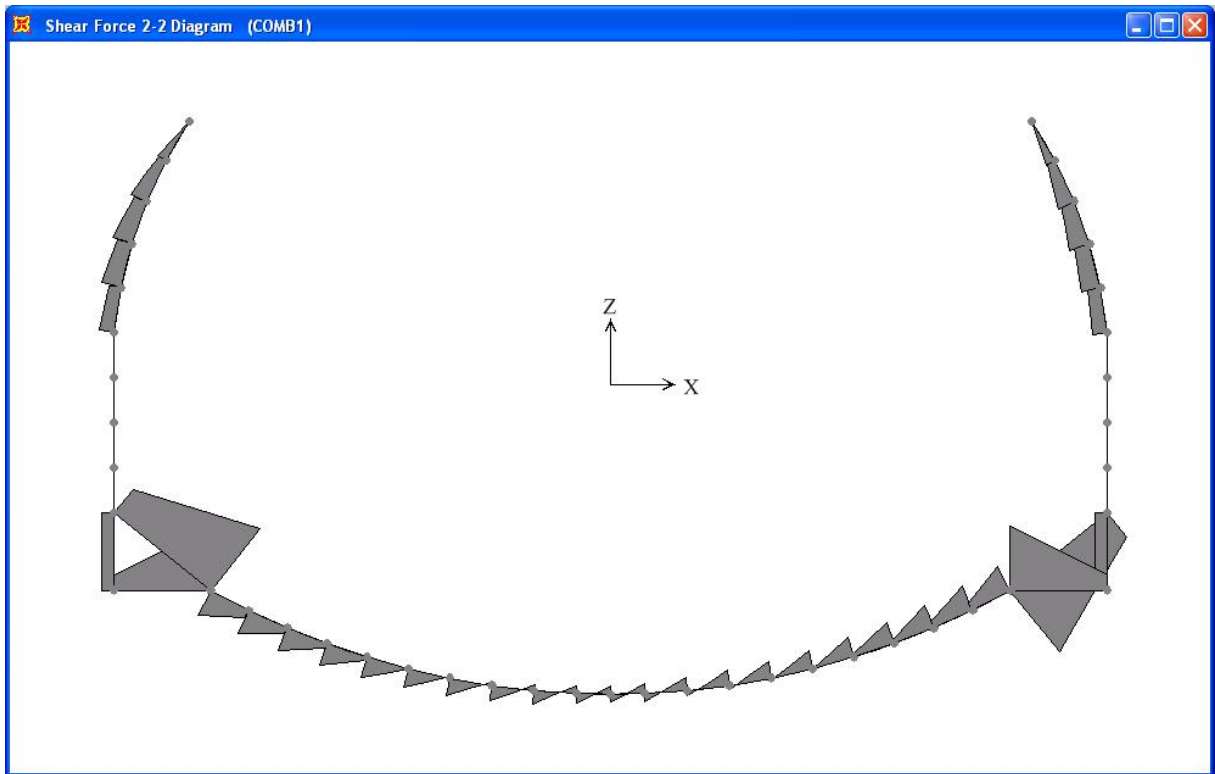
<b>ColdCode</b>
Text
AISI-ASD96

## **Allegato 8**

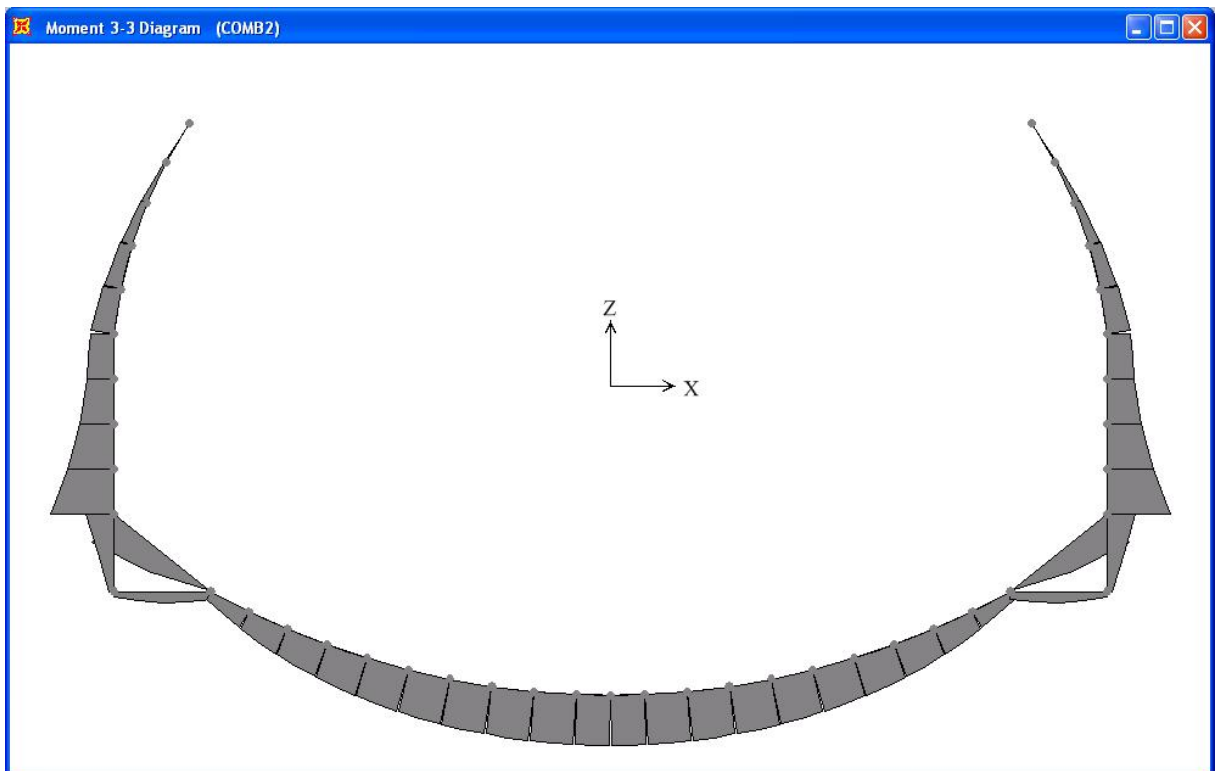
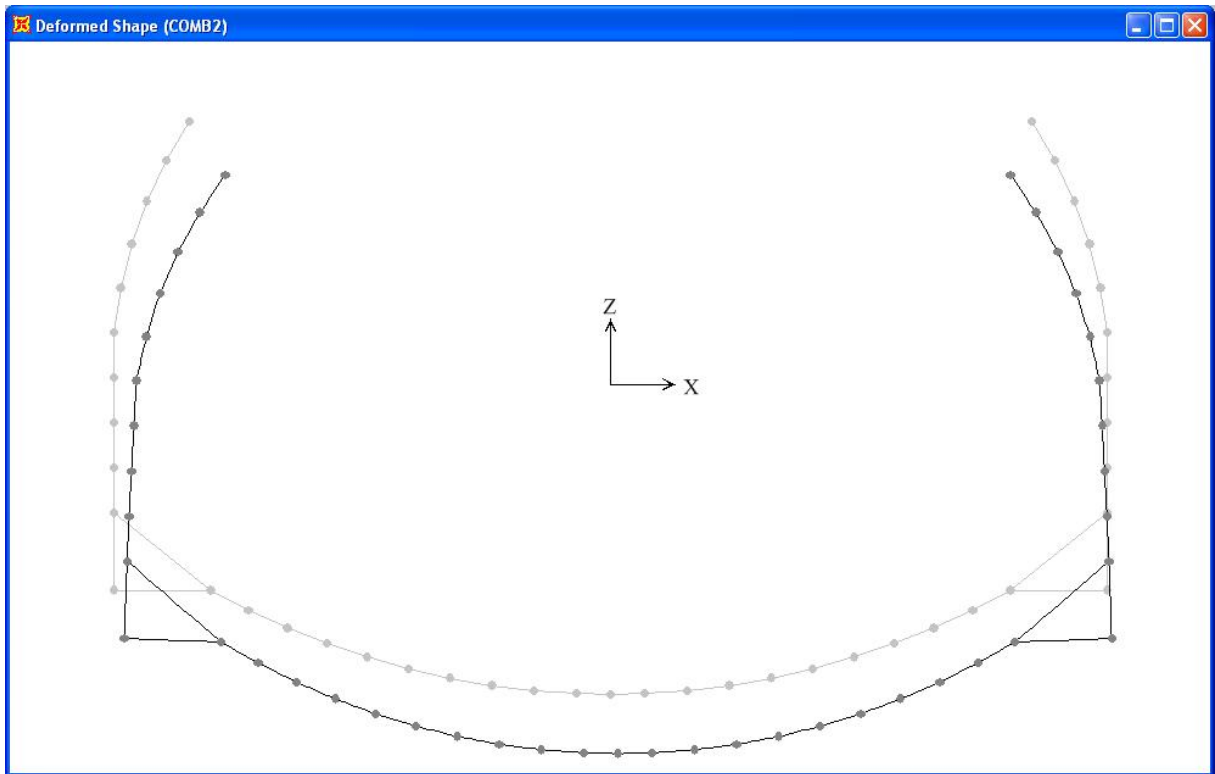
**Becco di flauto**

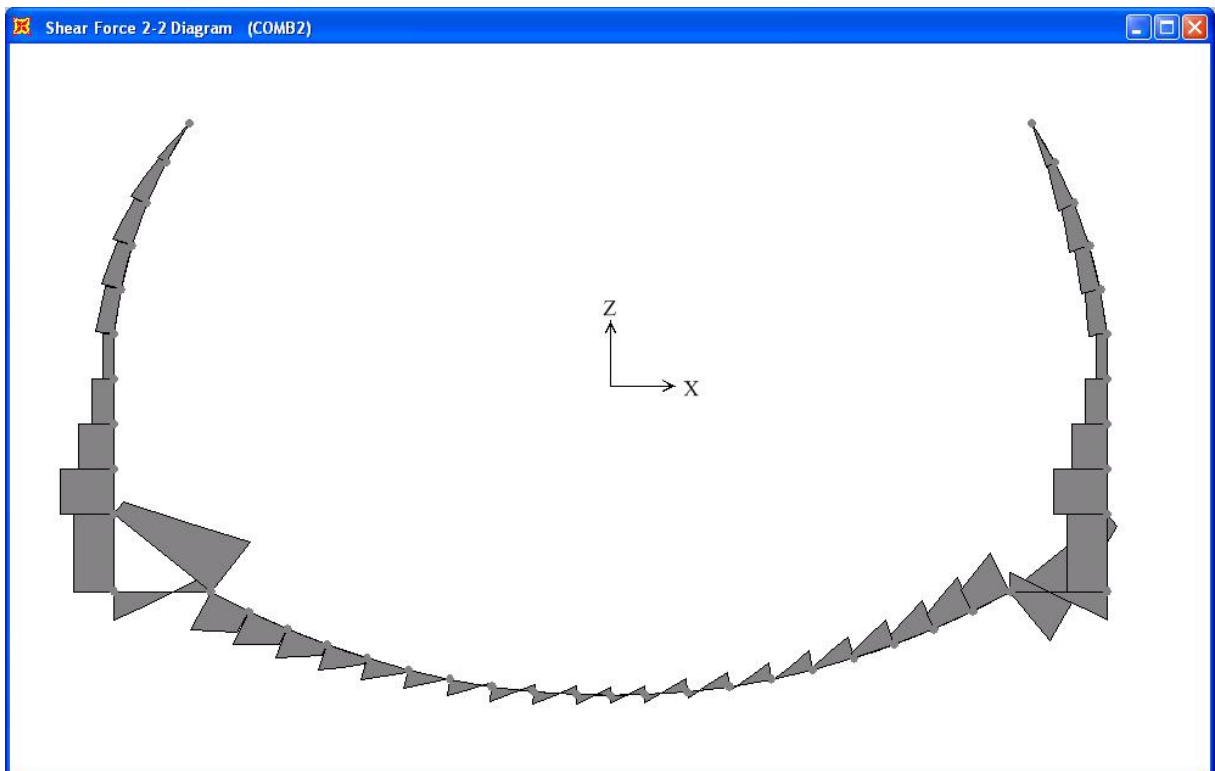
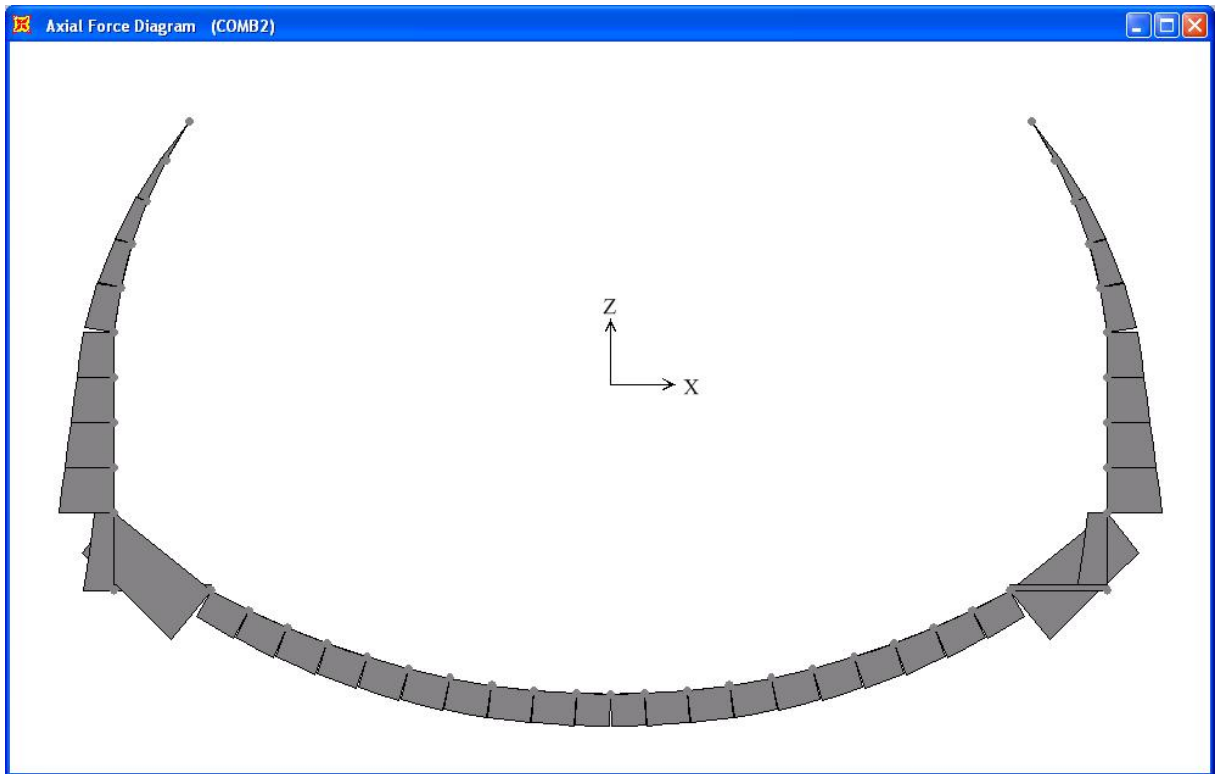
**Output grafici**

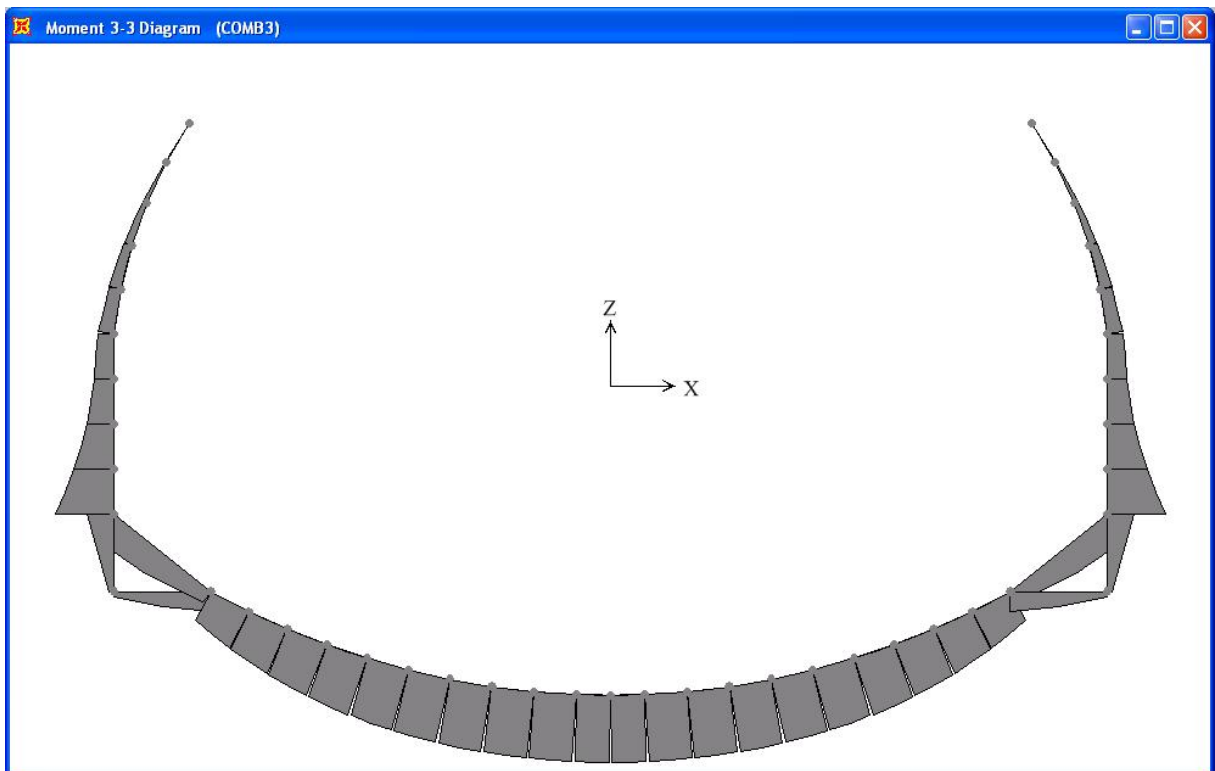
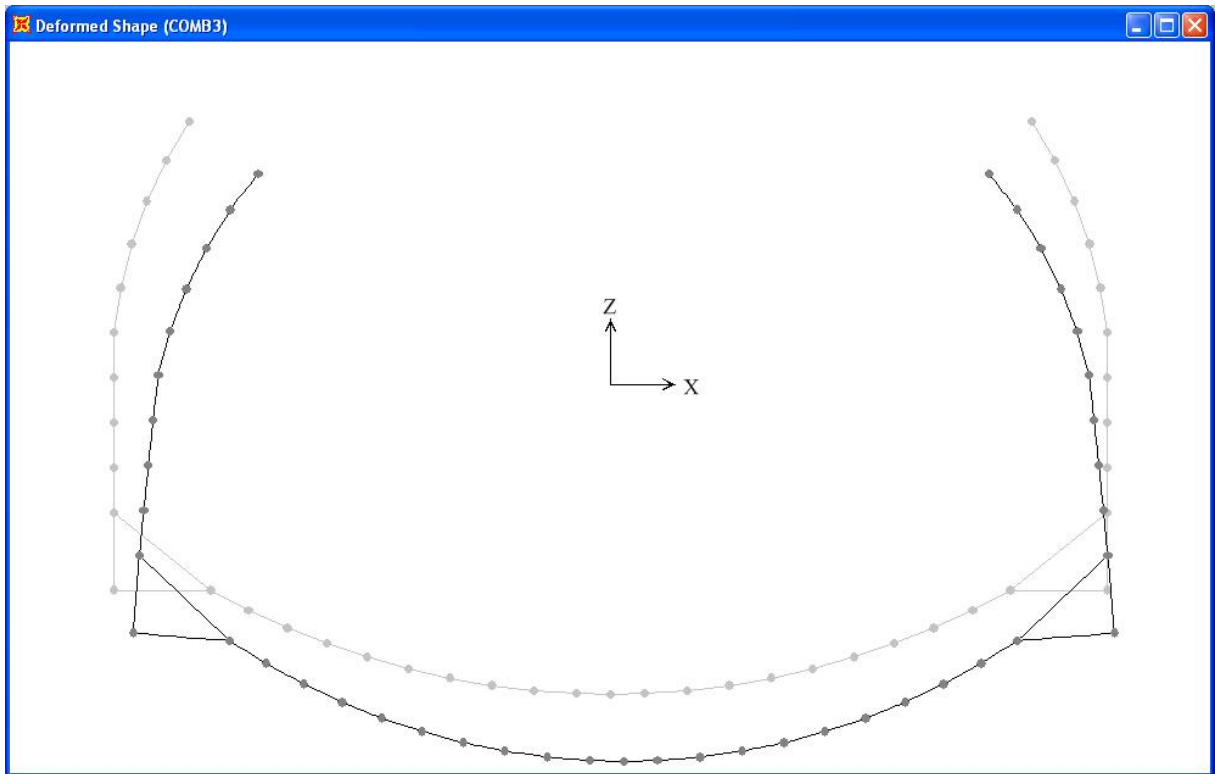


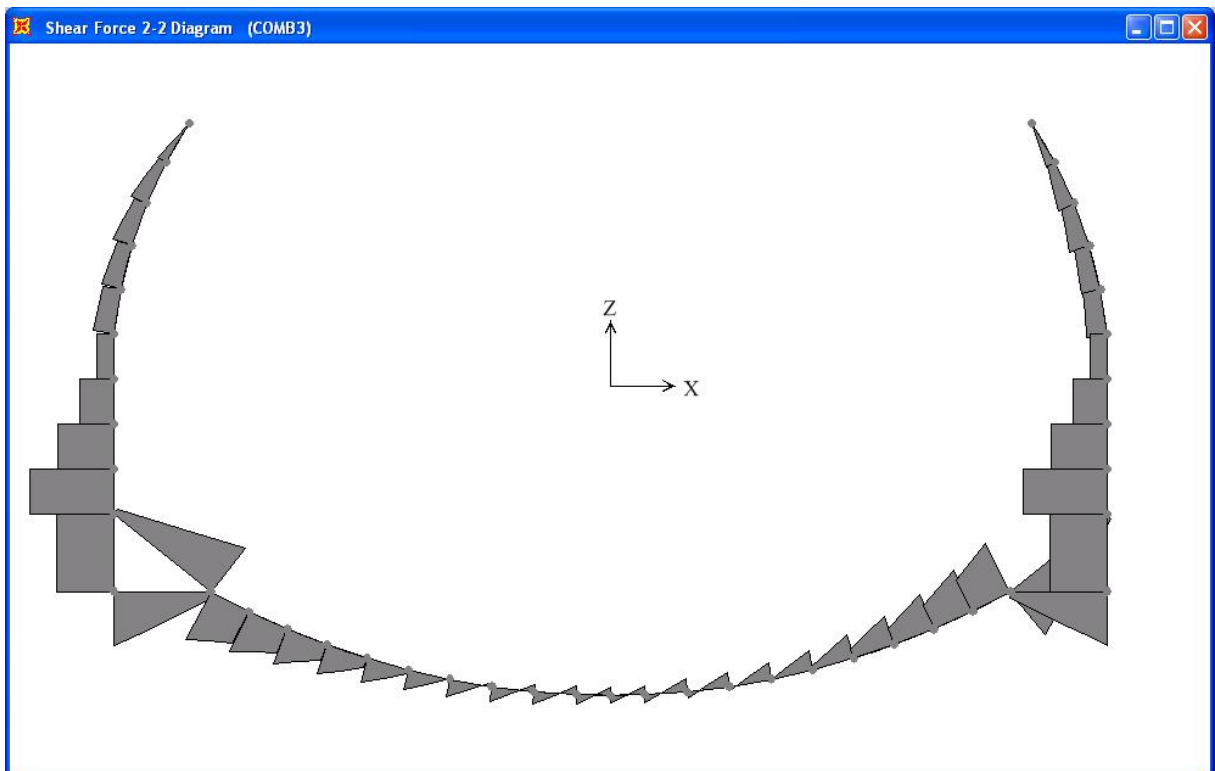
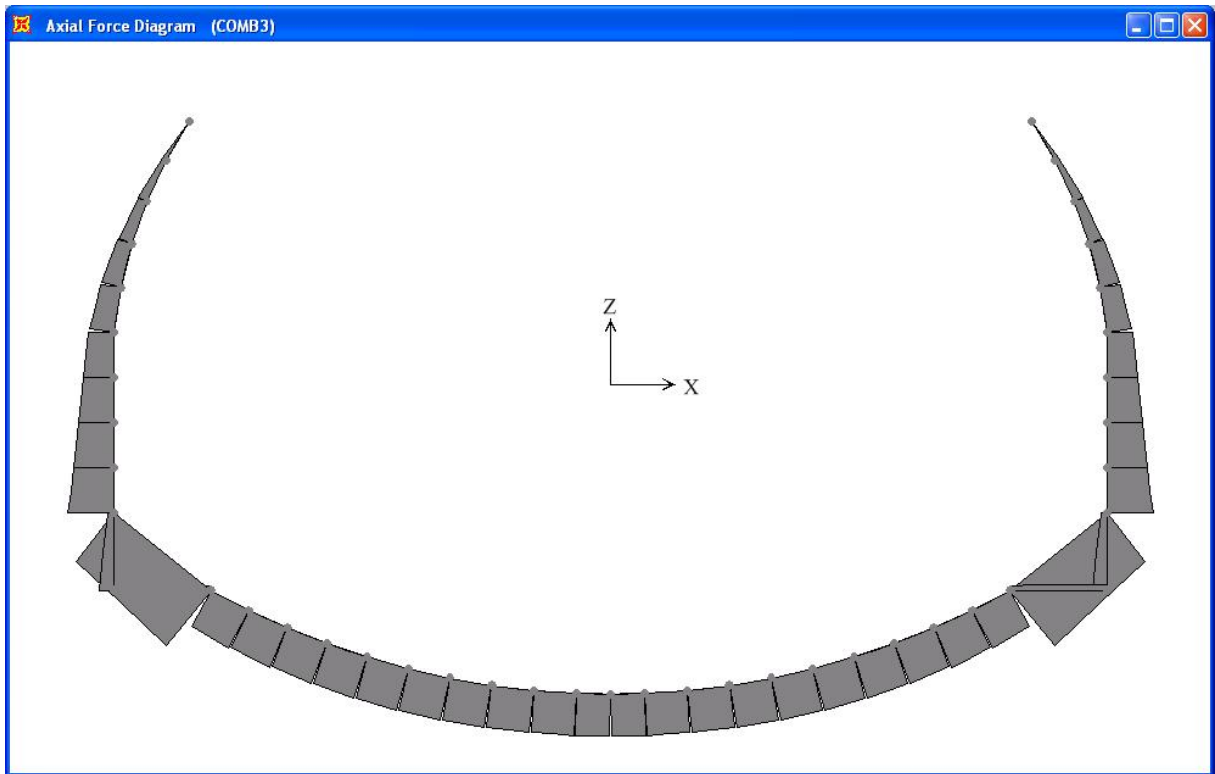


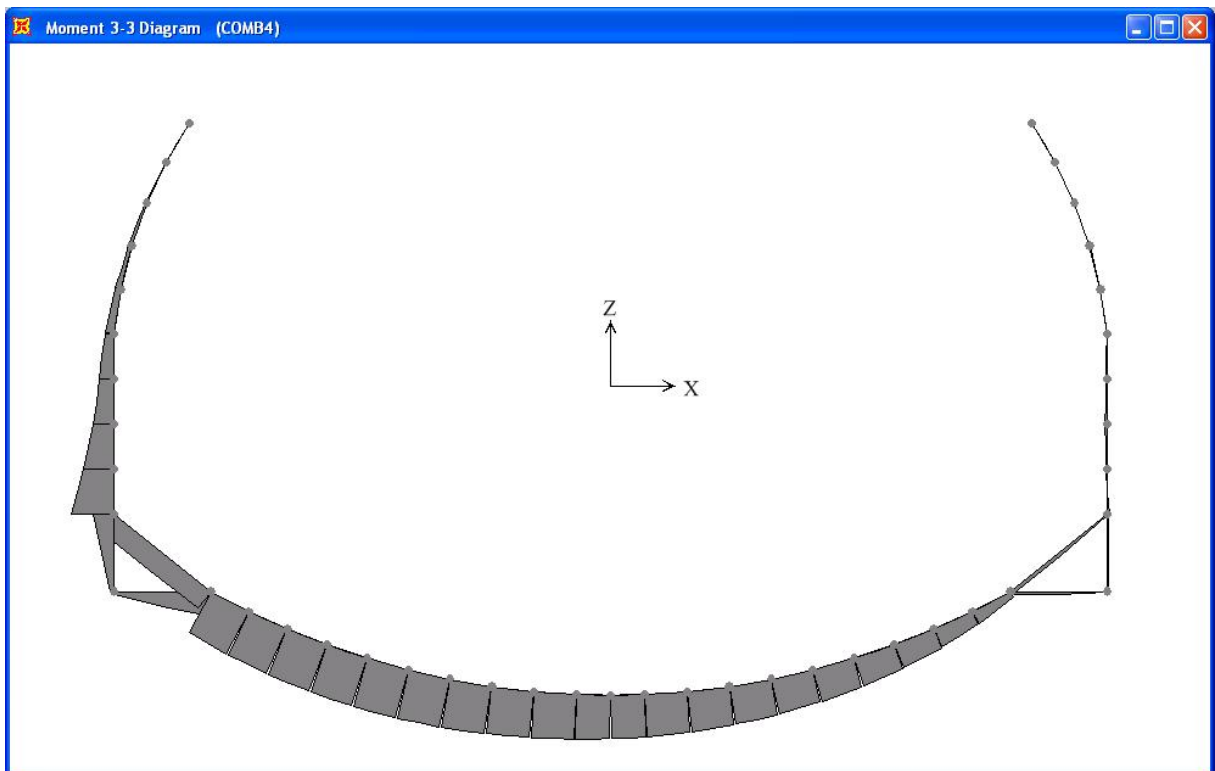
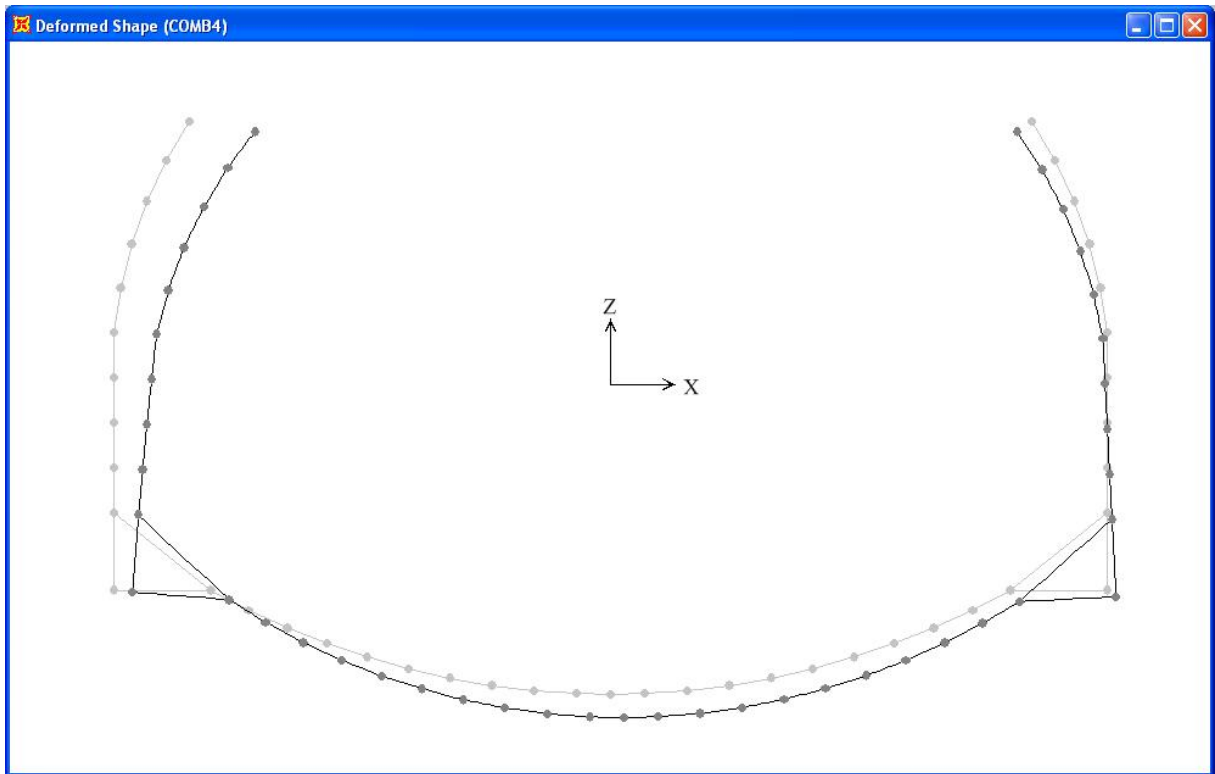


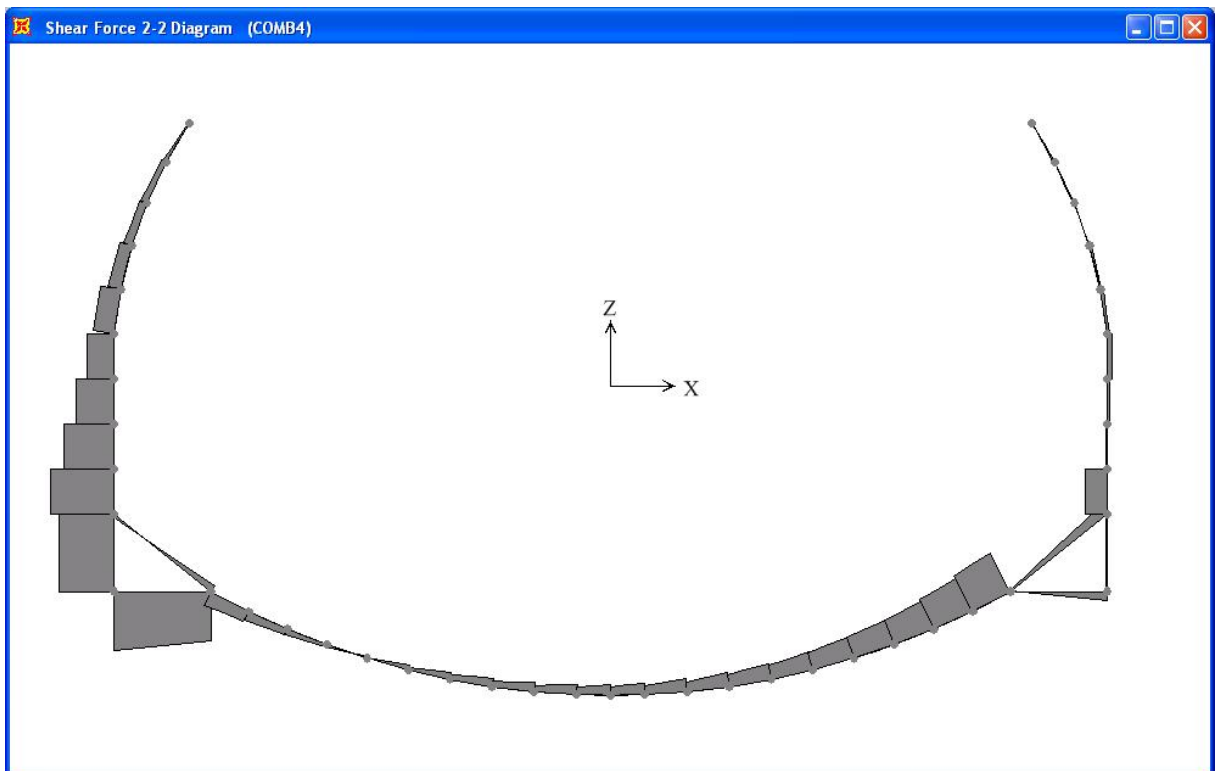
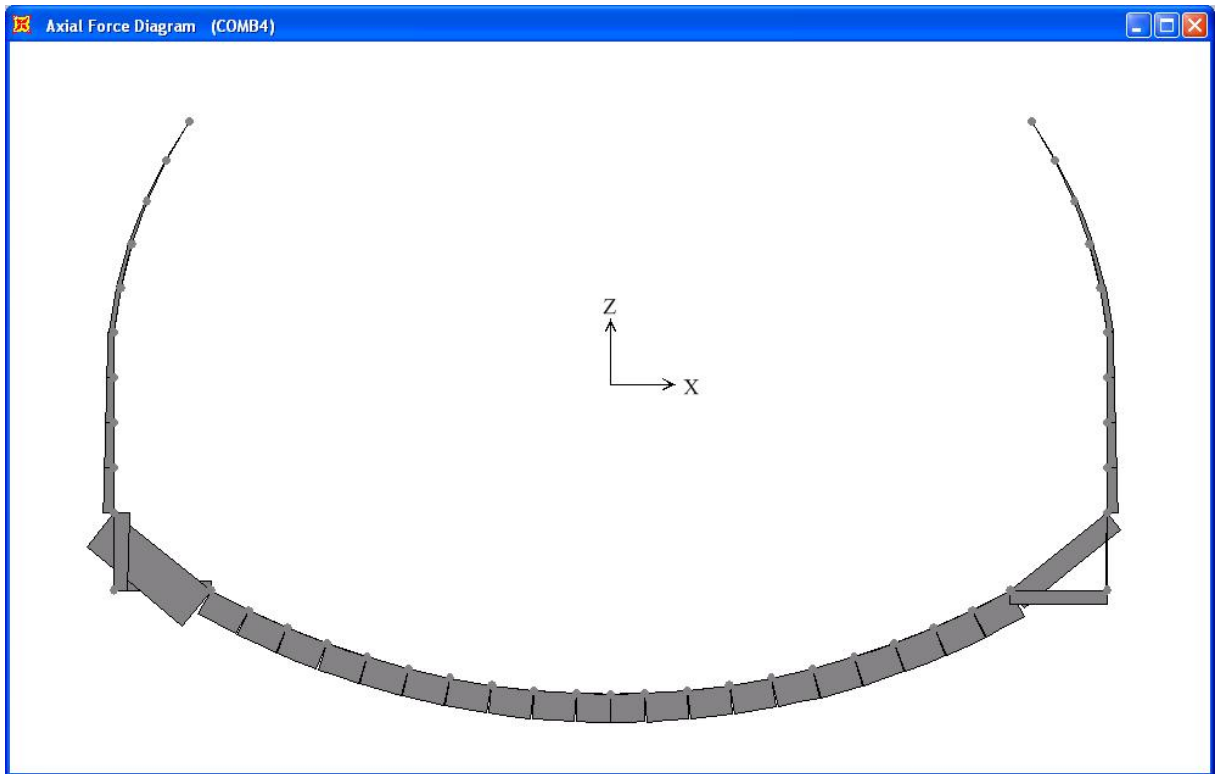


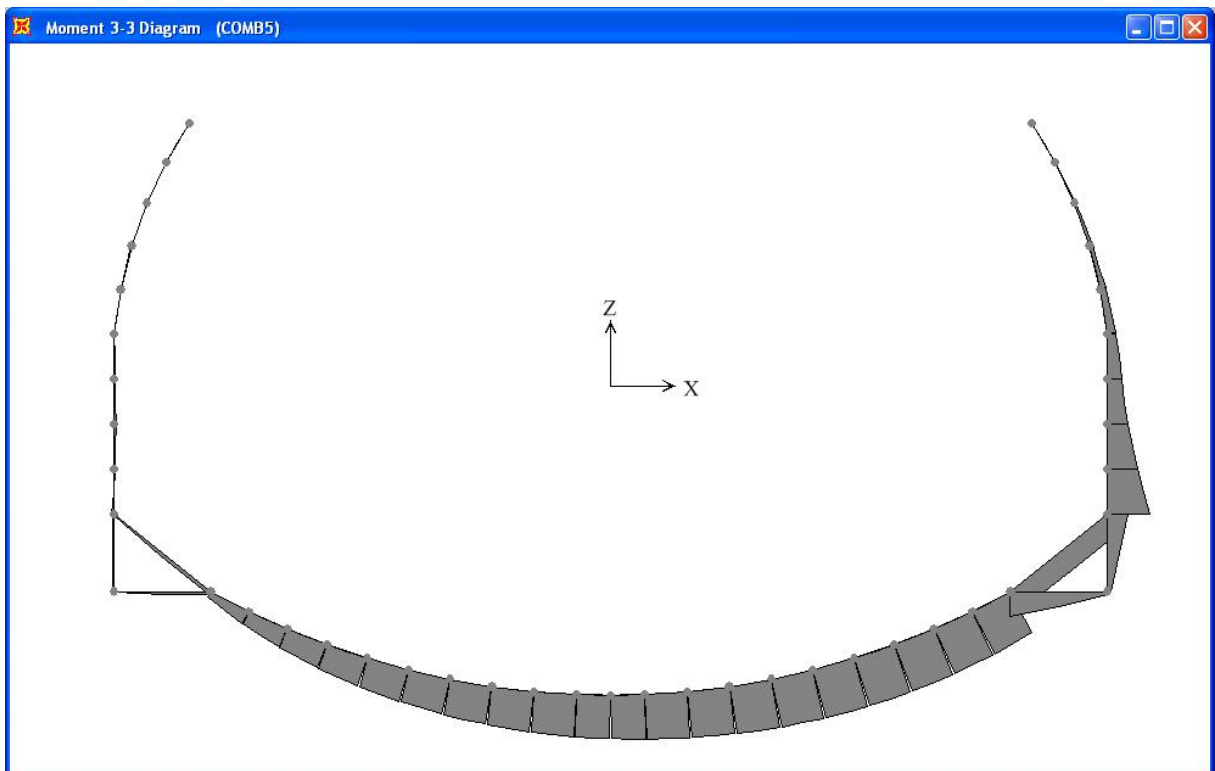
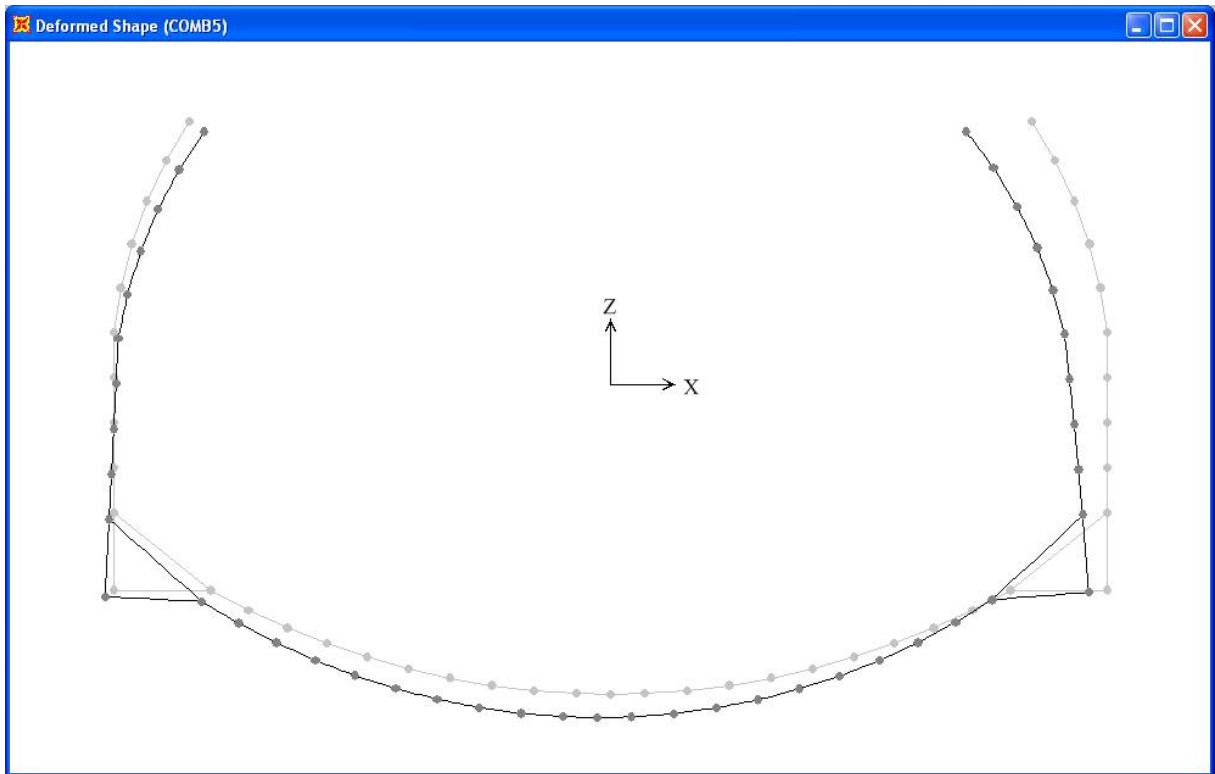


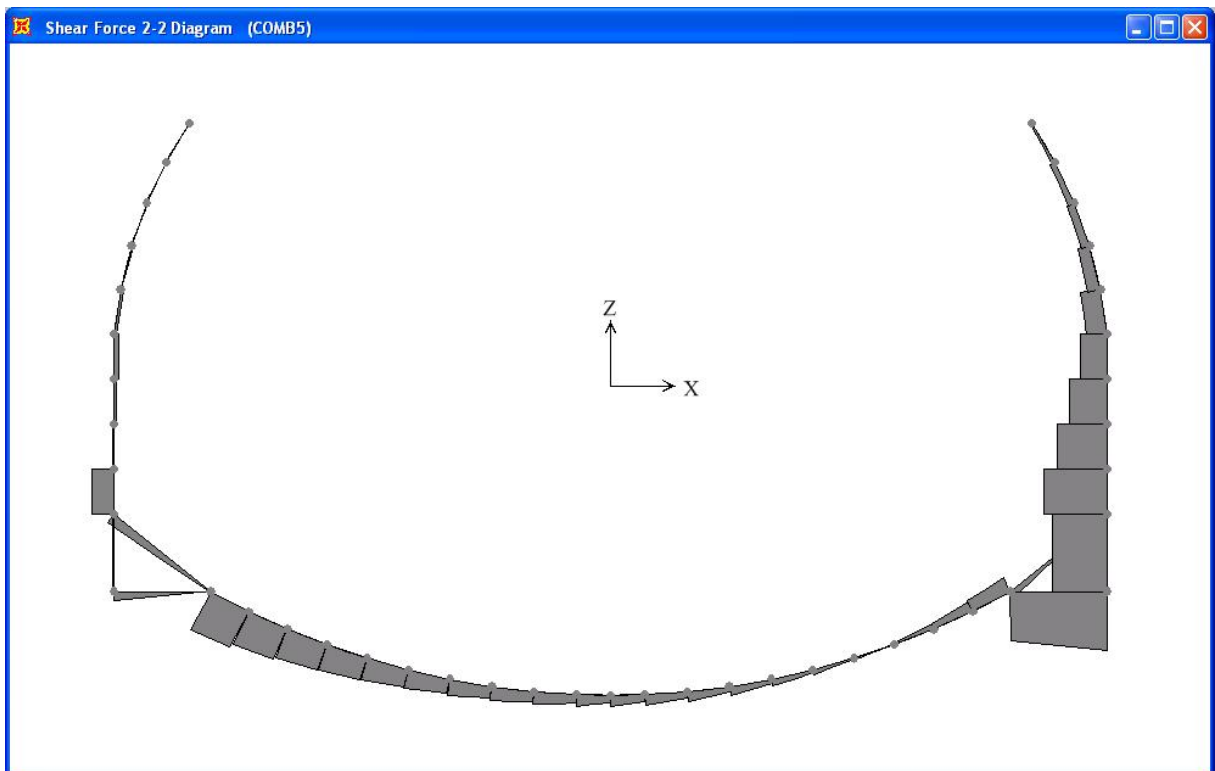
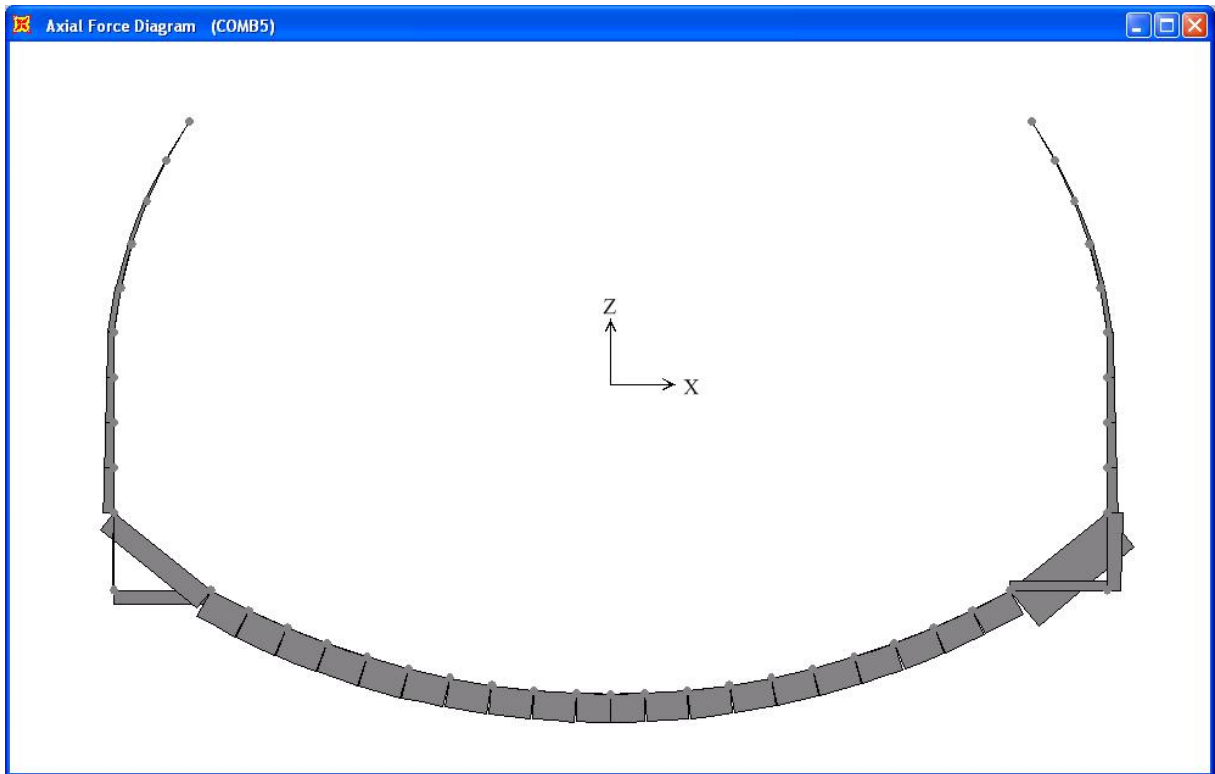




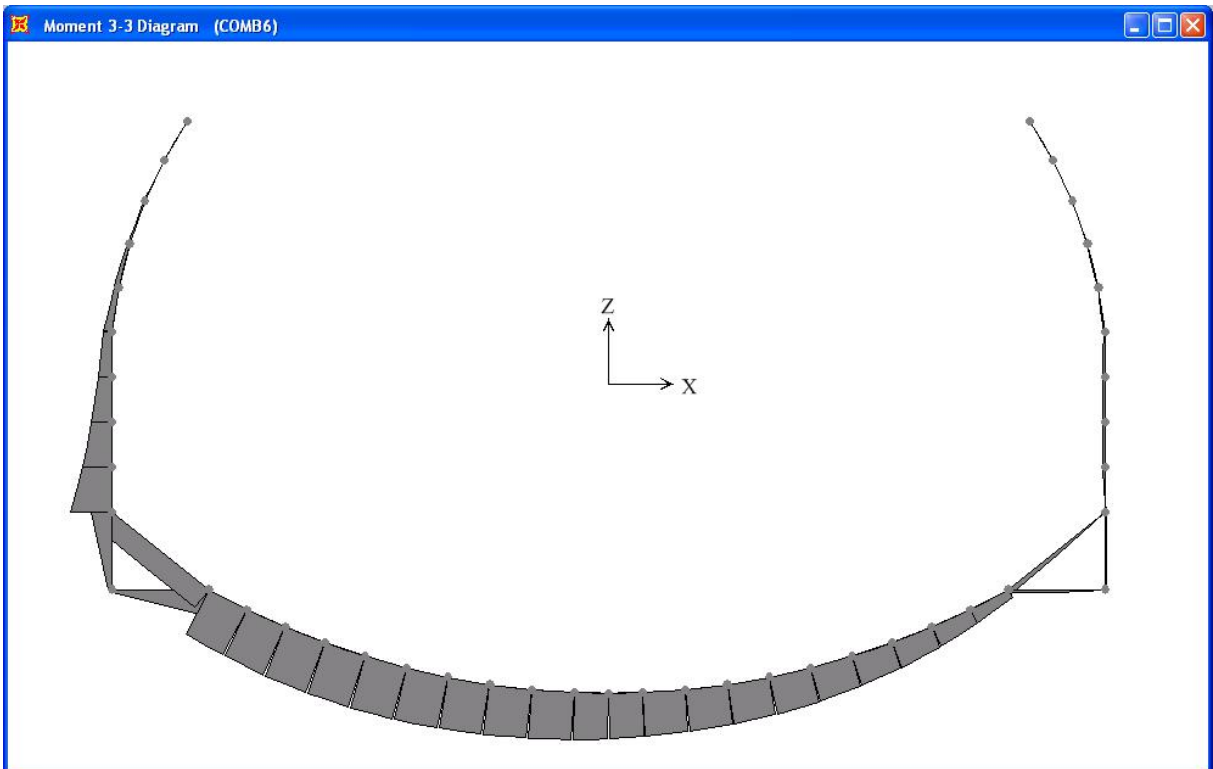
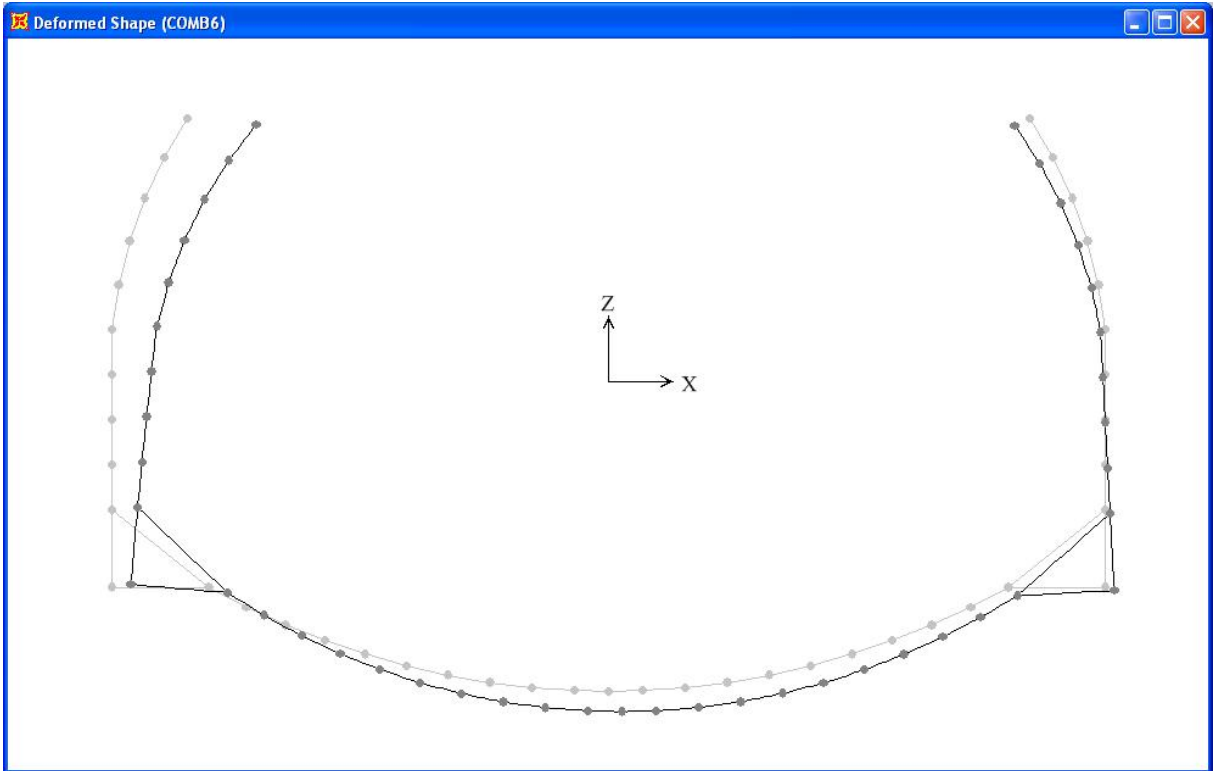


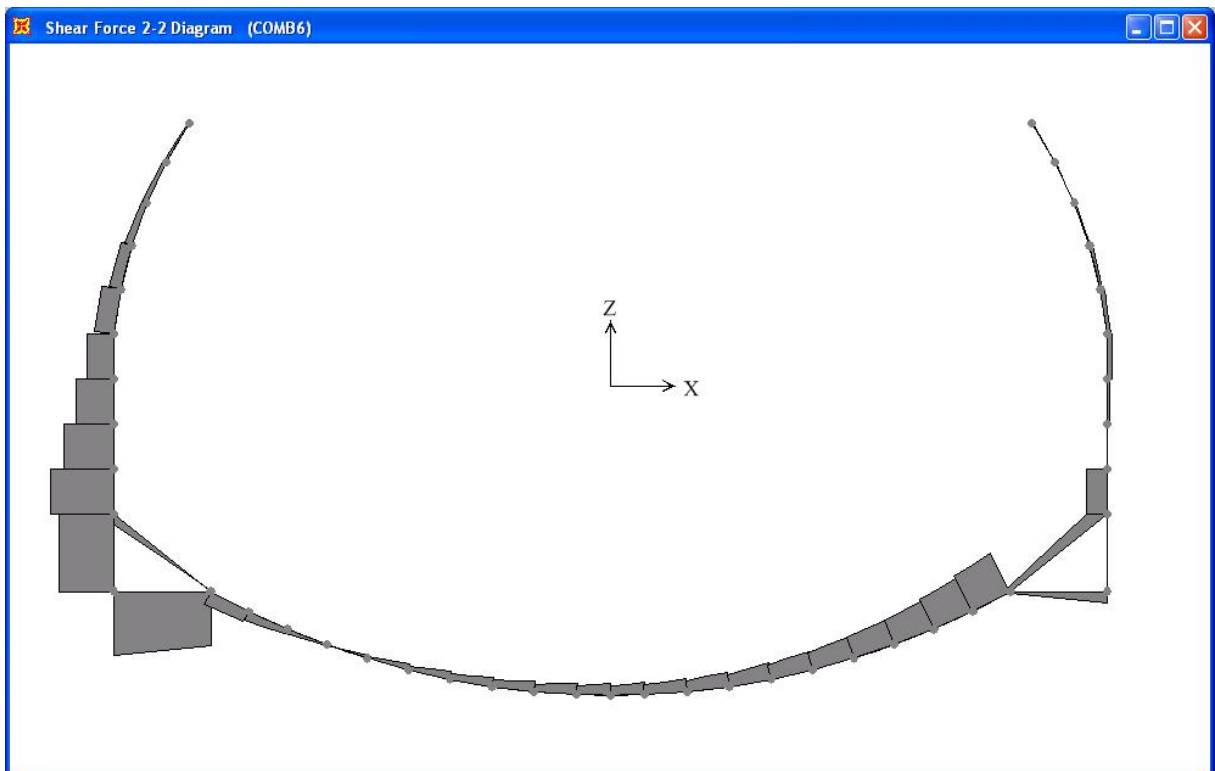
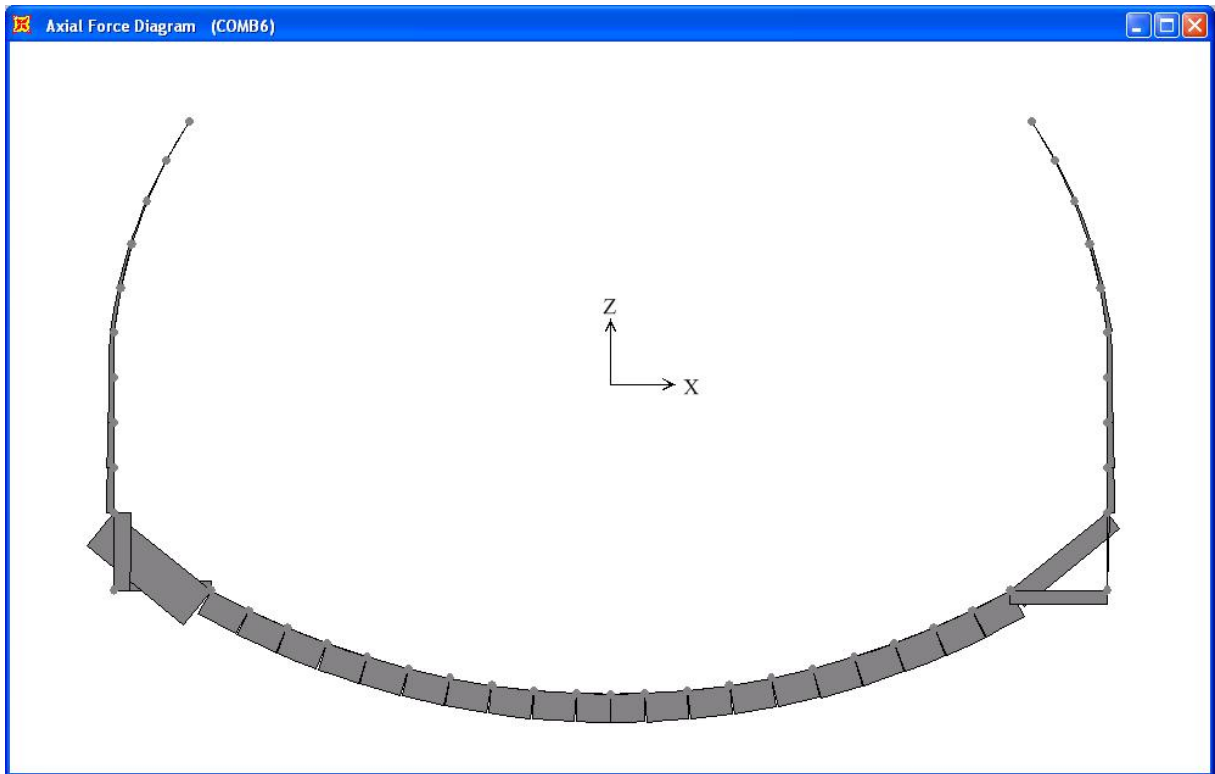


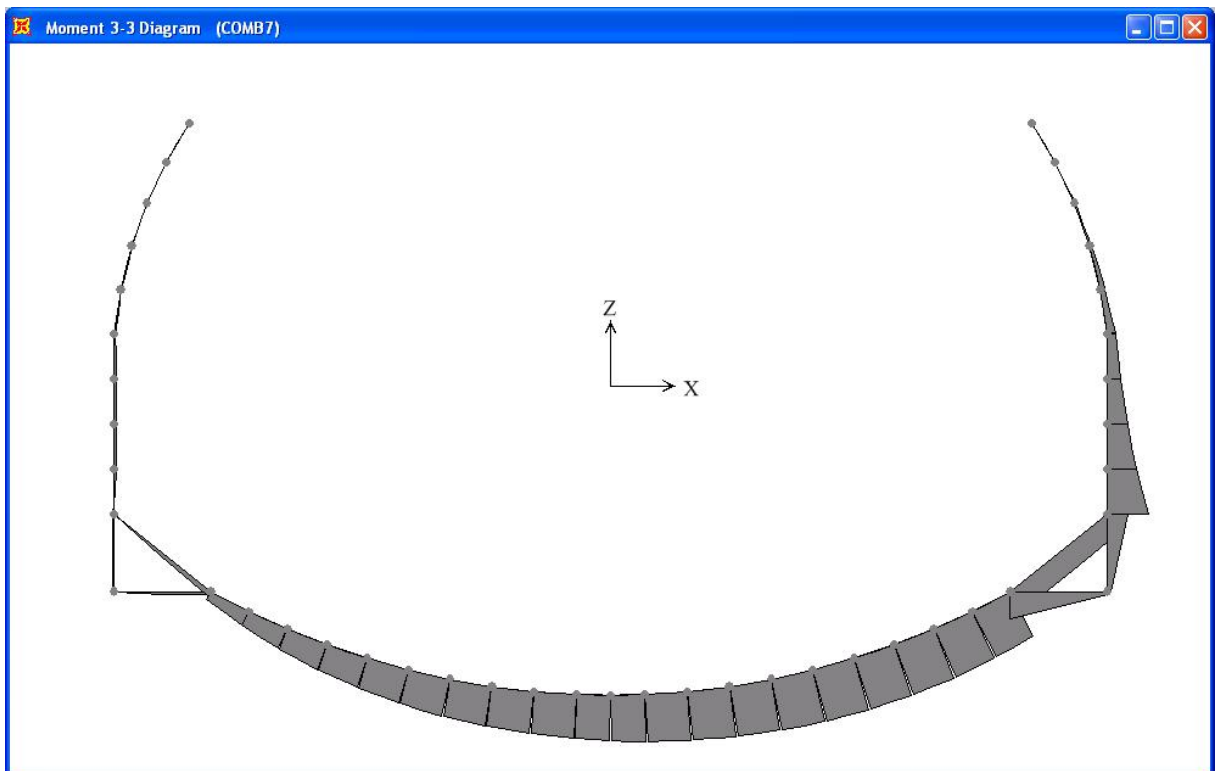
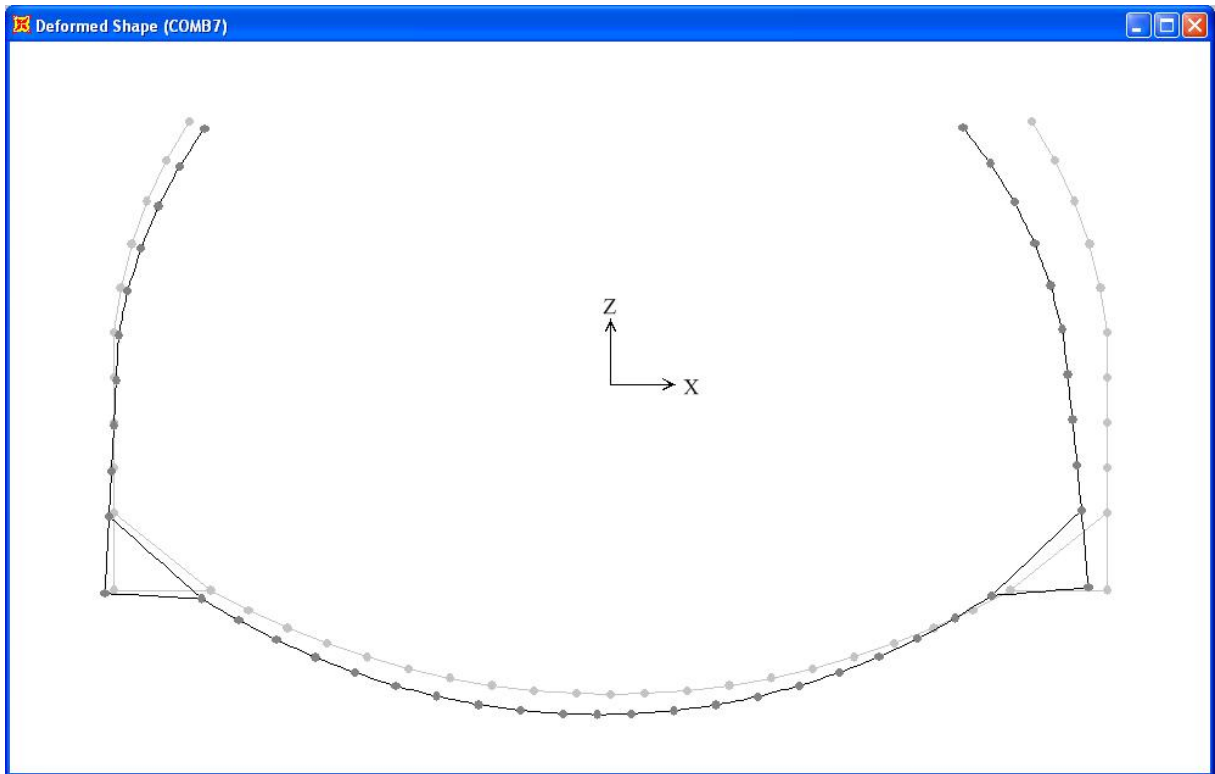


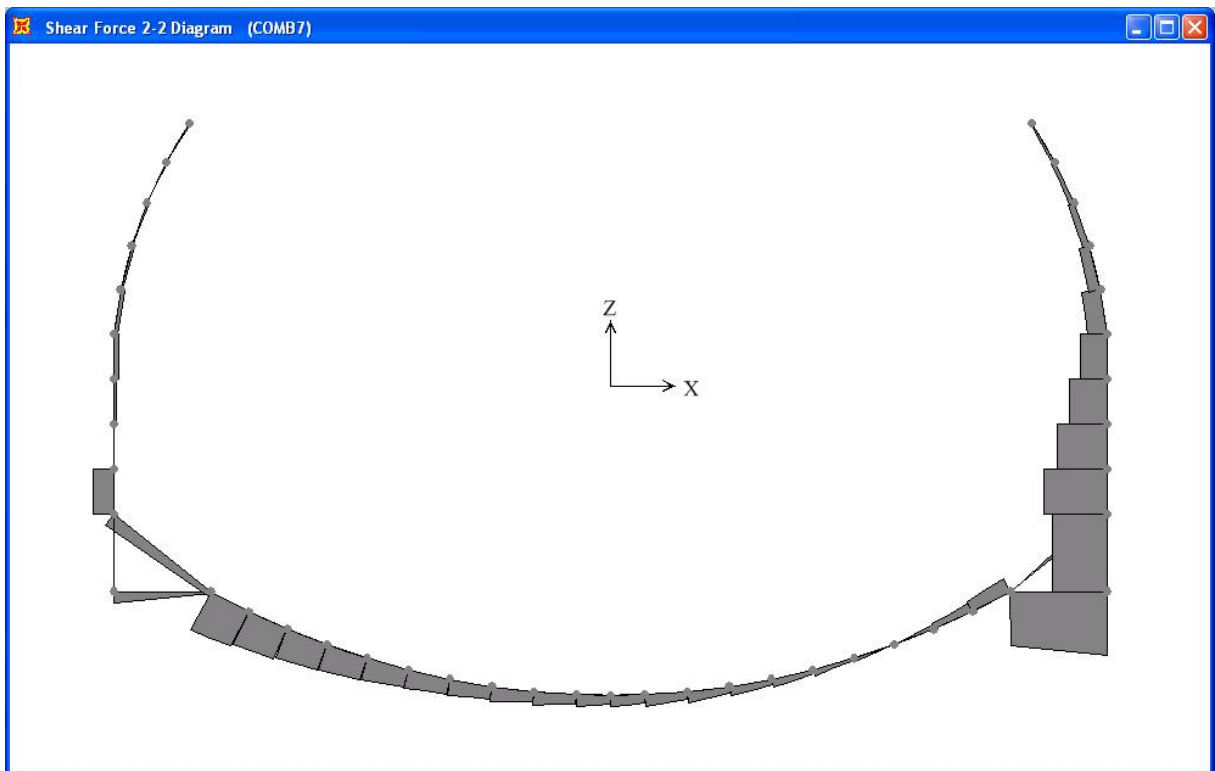
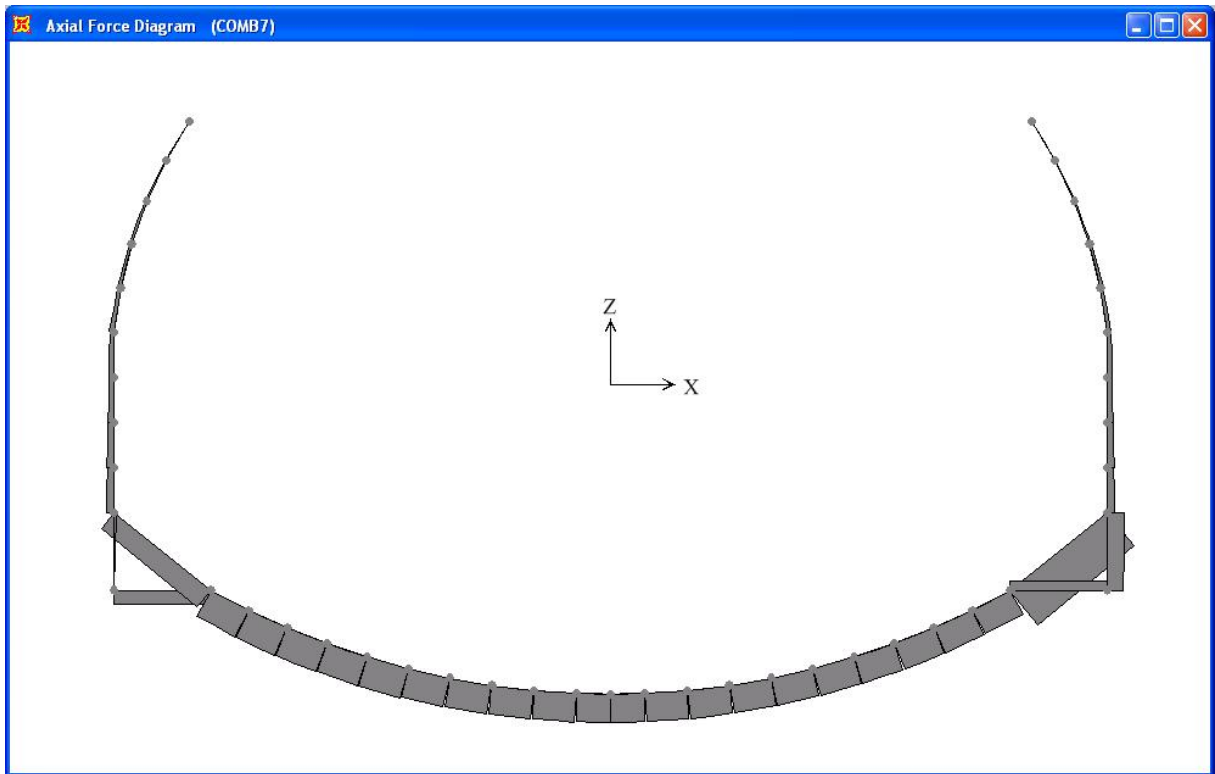












## **Allegato 9**

**Becco di flauto**

**Tabelle di verifica**

## **Verifiche allo S.L.E.**

TABLE: Element Forces - Frames						Estradosso	Intradosso	VERIFICHE SEZIONALI				Apertura Fessure
Frame	StepType	Height	P	V2	M3	A <sub>f</sub>	A' <sub>f</sub>	σ <sub>c</sub> [Mpa]	σ <sub>s,inf</sub> [Mpa]	σ <sub>s,sup</sub> [Mpa]	τ [kPa]	Wk [mm]
Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>					
1	COMB 1	1	-11,345	-6,311	-60,294	21,24	21,24	-0,6	-6,5	29,5	-7,0	0,00
1	COMB 1	1	-11,056	7,682	-60,678	21,24	21,24	-0,6	-6,5	29,8	8,5	0,00
2	COMB 1	1	-11,675	-6,493	-60,678	21,24	21,24	-0,6	-6,6	29,7	-7,2	0,00
2	COMB 1	1	-10,499	10,966	-62,243	21,24	21,24	-0,6	-6,7	30,7	12,2	0,00
3	COMB 1	1	-11,860	-4,743	-62,243	21,24	21,24	-0,6	-6,7	30,5	-5,3	0,00
3	COMB 1	1	-9,782	12,631	-65,004	21,24	21,24	-0,6	-7,0	32,4	14,0	0,00
4	COMB 1	1	-11,894	-2,994	-65,004	21,24	21,24	-0,6	-7,0	31,9	-3,3	0,00
4	COMB 1	1	-8,920	14,249	-68,943	21,24	21,24	-0,6	-7,3	34,6	15,8	0,00
5	COMB 1	1	-11,780	-1,256	-68,943	21,24	21,24	-0,6	-7,4	34,0	-1,4	0,00
5	COMB 1	1	-7,918	15,810	-74,036	21,24	21,24	-0,7	-7,8	37,6	17,6	0,00
6	COMB 1	1	-11,518	0,461	-74,036	21,24	21,24	-0,7	-7,9	36,8	0,5	0,00
6	COMB 1	1	-6,779	17,305	-80,253	21,24	21,24	-0,7	-8,5	41,1	19,2	0,00
7	COMB 1	1	-11,110	2,148	-80,253	21,24	21,24	-0,8	-8,6	40,2	2,4	0,00
7	COMB 1	1	-5,505	18,724	-87,558	21,24	21,24	-0,8	-9,2	45,3	20,8	0,00
8	COMB 1	1	-10,556	3,797	-87,558	21,24	21,24	-0,8	-9,3	44,2	4,2	0,00
8	COMB 1	1	-4,102	20,061	-95,907	21,24	21,24	-0,9	-10,0	50,0	22,3	0,00
9	COMB 1	1	-9,858	5,402	-95,907	21,24	21,24	-0,9	-10,2	48,7	6,0	0,00
9	COMB 1	1	-2,571	21,310	-105,255	21,24	21,24	-1,0	-10,9	55,3	23,7	0,00
10	COMB 1	1	-9,015	6,959	-105,255	21,24	21,24	-1,0	-11,1	53,9	7,7	0,00
10	COMB 1	1	-0,914	22,469	-115,554	21,24	21,24	-1,1	-12,0	61,1	25,0	0,00
12	COMB 1	0,9	-150,012	0,000	40,417	21,24	21,24	-0,4	2,1	-6,1	0,0	0,00
12	COMB 1	0,9	-133,336	0,000	40,417	21,24	21,24	-0,4	3,1	-6,0	0,0	0,00
13	COMB 1	0,9	-133,336	0,000	40,417	21,24	21,24	-0,4	3,1	-6,0	0,0	0,00
13	COMB 1	0,9	-116,659	0,000	40,417	21,24	21,24	-0,4	4,4	-6,0	0,0	0,00
14	COMB 1	0,9	-116,659	0,000	40,417	21,24	21,24	-0,4	4,4	-6,0	0,0	0,00
14	COMB 1	0,9	-99,983	0,000	40,417	21,24	21,24	-0,4	6,1	-6,0	0,0	0,00
15	COMB 1	0,9	-99,983	0,000	40,417	21,24	21,24	-0,4	6,1	-6,0	0,0	0,00
15	COMB 1	0,9	-83,307	0,000	40,417	21,24	21,24	-0,5	8,3	-6,0	0,0	0,00
16	COMB 1	0,9	-82,353	12,566	40,417	21,24	21,24	-0,5	8,4	-6,0	15,5	0,00
16	COMB 1	0,9	-65,883	10,053	32,042	21,24	21,24	-0,4	6,6	-4,7	12,4	0,00
17	COMB 1	0,9	-64,610	16,344	32,042	21,24	21,24	-0,4	6,8	-4,7	20,2	0,00
17	COMB 1	0,9	-48,458	12,258	21,452	21,24	21,24	-0,2	3,8	-3,2	15,1	0,00
18	COMB 1	0,9	-47,053	16,864	21,452	21,24	21,24	-0,2	4,0	-3,2	20,8	0,00
18	COMB 1	0,9	-31,369	11,242	11,046	21,24	21,24	-0,1	1,2	-1,6	13,9	0,00
19	COMB 1	0,9	-30,142	14,208	11,046	21,24	21,24	-0,1	1,4	-1,6	17,5	0,00
19	COMB 1	0,9	-15,071	7,104	3,155	21,24	21,24	0,0	0,0	-0,5	8,8	0,00
20	COMB 1	0,9	-14,318	8,521	3,155	21,24	21,24	0,0	0,1	-0,5	10,5	0,00
20	COMB 1	0,9	0,000	0,000	0,000	21,24	21,24	0,0	0,0	0,0	0,0	0,00
43	COMB 1	0,9	0,000	0,000	0,000	21,24	21,24	0,0	0,0	0,0	0,0	0,00
43	COMB 1	0,9	-14,318	-8,521	3,155	21,24	21,24	0,0	0,1	-0,5	-10,5	0,00
44	COMB 1	0,9	-15,071	-7,104	3,155	21,24	21,24	0,0	0,0	-0,5	-8,8	0,00
44	COMB 1	0,9	-30,142	-14,208	11,046	21,24	21,24	-0,1	1,4	-1,6	-17,5	0,00
45	COMB 1	0,9	-31,369	-11,242	11,046	21,24	21,24	-0,1	1,2	-1,6	-13,9	0,00
45	COMB 1	0,9	-47,053	-16,864	21,452	21,24	21,24	-0,2	4,0	-3,2	-20,8	0,00
46	COMB 1	0,9	-48,458	-12,258	21,452	21,24	21,24	-0,2	3,8	-3,2	-15,1	0,00
46	COMB 1	0,9	-64,610	-16,344	32,042	21,24	21,24	-0,4	6,8	-4,7	-20,2	0,00
47	COMB 1	0,9	-65,883	-10,053	32,042	21,24	21,24	-0,4	6,6	-4,7	-12,4	0,00
47	COMB 1	0,9	-82,353	-12,566	40,417	21,24	21,24	-0,5	8,4	-6,0	-15,5	0,00
48	COMB 1	0,9	-83,307	0,000	40,417	21,24	21,24	-0,5	8,3	-6,0	0,0	0,00
48	COMB 1	0,9	-99,983	0,000	40,417	21,24	21,24	-0,4	6,1	-6,0	0,0	0,00
49	COMB 1	0,9	-99,983	0,000	40,417	21,24	21,24	-0,4	6,1	-6,0	0,0	0,00
49	COMB 1	0,9	-116,659	0,000	40,417	21,24	21,24	-0,4	4,4	-6,0	0,0	0,00
50	COMB 1	0,9	-116,659	0,000	40,417	21,24	21,24	-0,4	4,4	-6,0	0,0	0,00
50	COMB 1	0,9	-133,336	0,000	40,417	21,24	21,24	-0,4	3,1	-6,0	0,0	0,00
51	COMB 1	0,9	-133,336	0,000	40,417	21,24	21,24	-0,4	3,1	-6,0	0,0	0,00
51	COMB 1	0,9	-150,012	0,000	40,417	21,24	21,24	-0,4	2,1	-6,1	0,0	0,00
53	COMB 1	1	-0,914	-22,470	-115,587	21,24	21,24	-1,1	-12,0	61,1	-25,0	0,00
53	COMB 1	1	-9,014	-6,960	-105,288	21,24	21,24	-1,0	-11,1	53,9	-7,7	0,00
54	COMB 1	1	-2,570	-21,313	-105,288	21,24	21,24	-1,0	-10,9	55,3	-23,7	0,00
54	COMB 1	1	-9,857	-5,404	-95,938	21,24	21,24	-0,9	-10,2	48,8	-6,0	0,00
55	COMB 1	1	-4,100	-20,064	-95,938	21,24	21,24	-0,9	-10,0	50,0	-22,3	0,00
55	COMB 1	1	-10,555	-3,800	-87,586	21,24	21,24	-0,8	-9,3	44,2	-4,2	0,00
56	COMB 1	1	-5,504	-18,728	-87,586	21,24	21,24	-0,8	-9,2	45,3	-20,8	0,00
56	COMB 1	1	-11,108	-2,152	-80,279	21,24	21,24	-0,8	-8,6	40,2	-2,4	0,00
57	COMB 1	1	-6,777	-17,310	-80,279	21,24	21,24	-0,7	-8,5	41,1	-19,2	0,00
57	COMB 1	1	-11,517	-0,466	-74,058	21,24	21,24	-0,7	-7,9	36,8	-0,5	0,00
58	COMB 1	1	-7,917	-15,816	-74,058	21,24	21,24	-0,7	-7,8	37,6	-17,6	0,00
58	COMB 1	1	-11,779	1,250	-68,961	21,24	21,24	-0,6	-7,4	34,0	1,4	0,00
59	COMB 1	1	-8,919	-14,256	-68,961	21,24	21,24	-0,6	-7,3	34,6	-15,8	0,00
59	COMB 1	1	-11,893	2,988	-65,017	21,24	21,24	-0,6	-7,0	31,9	3,3	0,00
60	COMB 1	1	-9,781	-12,638	-65,017	21,24	21,24	-0,6	-7,0	32,4	-14,0	0,00
60	COMB 1	1	-11,859	4,736	-62,252	21,24	21,24	-0,6	-6,7	30,5	5,3	0,00
61	COMB 1	1	-10,499	-10,973	-62,252	21,24	21,24	-0,6	-6,7	30,8	-12,2	0,00
61	COMB 1	1	-11,675	6,486	-60,682	21,24	21,24	-0,6	-6,6	29,7	7,2	0,00
62	COMB 1	1	-11,056	-7,689	-60,682	21,24	21,24	-0,6	-6,5	29,8	-8,5	0,00
62	COMB 1	1	-11,345	6,304	-60,294	21,24	21,24	-0,6	-6,5	29,5	7,0	0,00

TABLE: Element Forces - Frames						Estradosso	Intradosso	VERIFICHE SEZIONALI				Apertura Fessure
Frame	StepType	Height	P	V2	M3	A <sub>f</sub>	A' <sub>f</sub>	σc [Mpa]	σs,inf [Mpa]	σs,sup [Mpa]	τ [kPa]	Wk [mm]
Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>					
1	COMB 2	1	-87,911	-6,476	90,766	21,24	21,24	-0,9	29,9	-11,0	-7,2	0,00
1	COMB 2	1	-87,621	7,516	90,475	21,24	21,24	-0,9	29,8	-10,9	8,4	0,00
2	COMB 2	1	-88,428	-6,987	90,475	21,24	21,24	-0,9	29,7	-10,9	-7,8	0,00
2	COMB 2	1	-87,251	10,471	89,256	21,24	21,24	-0,9	29,3	-10,8	11,6	0,00
3	COMB 2	1	-89,031	-5,415	89,256	21,24	21,24	-0,9	29,0	-10,8	-6,0	0,00
3	COMB 2	1	-86,953	11,959	86,966	21,24	21,24	-0,8	28,2	-10,5	13,3	0,00
4	COMB 2	1	-89,660	-3,517	86,966	21,24	21,24	-0,8	27,7	-10,5	-3,9	0,00
4	COMB 2	1	-86,686	13,727	83,393	21,24	21,24	-0,8	26,4	-10,1	15,3	0,00
5	COMB 2	1	-90,244	-1,179	83,393	21,24	21,24	-0,8	25,7	-10,1	-1,3	0,00
5	COMB 2	1	-86,382	15,888	78,245	21,24	21,24	-0,8	23,8	-9,5	17,7	0,00
6	COMB 2	1	-90,689	1,696	78,245	21,24	21,24	-0,8	23,0	-9,6	1,9	0,00
6	COMB 2	1	-85,949	18,540	71,163	21,24	21,24	-0,7	20,3	-8,7	20,6	0,00
7	COMB 2	1	-90,887	5,180	71,163	21,24	21,24	-0,7	19,4	-8,8	5,8	0,00
7	COMB 2	1	-85,283	21,756	61,737	21,24	21,24	-0,6	15,7	-7,6	24,2	0,00
8	COMB 2	1	-90,718	9,321	61,737	21,24	21,24	-0,6	14,8	-7,6	10,4	0,00
8	COMB 2	1	-84,263	25,585	49,521	21,24	21,24	-0,5	10,0	-6,2	28,4	0,00
9	COMB 2	1	-90,052	14,136	49,521	21,24	21,24	-0,5	9,1	-6,2	15,7	0,00
9	COMB 2	1	-82,765	30,044	34,060	21,24	21,24	-0,3	3,7	-4,2	33,4	0,00
10	COMB 2	1	-88,763	19,613	34,060	21,24	21,24	-0,3	3,2	-4,2	21,8	0,00
10	COMB 2	1	-80,662	35,123	14,904	21,24	21,24	-0,2	-0,1	-2,2	39,0	0,00
12	COMB 2	0,9	-150,012	44,123	116,399	21,24	21,24	-1,3	38,7	-16,7	54,5	0,00
12	COMB 2	0,9	-133,336	44,123	83,697	21,24	21,24	-1,0	23,3	-12,2	54,5	0,00
13	COMB 2	0,9	-133,336	29,334	83,697	21,24	21,24	-1,0	23,3	-12,2	36,2	0,00
13	COMB 2	0,9	-116,659	29,334	61,955	21,24	21,24	-0,7	14,3	-9,1	36,2	0,00
14	COMB 2	0,9	-116,659	17,523	61,955	21,24	21,24	-0,7	14,3	-9,1	21,6	0,00
14	COMB 2	0,9	-99,983	17,523	48,968	21,24	21,24	-0,6	10,1	-7,2	21,6	0,00
15	COMB 2	0,9	-99,983	8,689	48,968	21,24	21,24	-0,6	10,1	-7,2	10,7	0,00
15	COMB 2	0,9	-83,307	8,689	42,528	21,24	21,24	-0,5	9,3	-6,3	10,7	0,00
16	COMB 2	0,9	-81,921	15,401	42,528	21,24	21,24	-0,5	9,5	-6,3	19,0	0,00
16	COMB 2	0,9	-65,450	12,888	32,054	21,24	21,24	-0,4	6,6	-4,7	15,9	0,00
17	COMB 2	0,9	-64,606	16,360	32,054	21,24	21,24	-0,4	6,8	-4,7	20,2	0,00
17	COMB 2	0,9	-48,454	12,274	21,452	21,24	21,24	-0,2	3,8	-3,2	15,2	0,00
18	COMB 2	0,9	-47,053	16,864	21,452	21,24	21,24	-0,2	4,0	-3,2	20,8	0,00
18	COMB 2	0,9	-31,369	11,242	11,046	21,24	21,24	-0,1	1,2	-1,6	13,9	0,00
19	COMB 2	0,9	-30,142	14,208	11,046	21,24	21,24	-0,1	1,4	-1,6	17,5	0,00
19	COMB 2	0,9	-15,071	7,104	3,155	21,24	21,24	0,0	0,0	-0,5	8,8	0,00
20	COMB 2	0,9	-14,318	8,521	3,155	21,24	21,24	0,0	0,1	-0,5	10,5	0,00
20	COMB 2	0,9	0,000	0,000	0,000	21,24	21,24	0,0	0,0	0,0	0,0	0,00
43	COMB 2	0,9	0,000	0,000	0,000	21,24	21,24	0,0	0,0	0,0	0,0	0,00
43	COMB 2	0,9	-14,318	-8,521	3,155	21,24	21,24	0,0	0,1	-0,5	-10,5	0,00
44	COMB 2	0,9	-15,071	-7,104	3,155	21,24	21,24	0,0	0,0	-0,5	-8,8	0,00
44	COMB 2	0,9	-30,142	-14,208	11,046	21,24	21,24	-0,1	1,4	-1,6	-17,5	0,00
45	COMB 2	0,9	-31,369	-11,242	11,046	21,24	21,24	-0,1	1,2	-1,6	-13,9	0,00
45	COMB 2	0,9	-47,053	-16,864	21,452	21,24	21,24	-0,2	4,0	-3,2	-20,8	0,00
46	COMB 2	0,9	-48,454	-12,274	21,452	21,24	21,24	-0,2	3,8	-3,2	-15,2	0,00
46	COMB 2	0,9	-64,606	-16,360	32,054	21,24	21,24	-0,4	6,8	-4,7	-20,2	0,00
47	COMB 2	0,9	-65,450	-12,888	32,054	21,24	21,24	-0,4	6,6	-4,7	-15,9	0,00
47	COMB 2	0,9	-81,921	-15,401	42,528	21,24	21,24	-0,5	9,5	-6,3	-19,0	0,00
48	COMB 2	0,9	-83,307	-8,689	42,528	21,24	21,24	-0,5	9,3	-6,3	-10,7	0,00
48	COMB 2	0,9	-99,983	-8,689	48,968	21,24	21,24	-0,6	10,1	-7,2	-10,7	0,00
49	COMB 2	0,9	-99,983	-17,523	48,968	21,24	21,24	-0,6	10,1	-7,2	-21,6	0,00
49	COMB 2	0,9	-116,659	-17,523	61,955	21,24	21,24	-0,7	14,3	-9,1	-21,6	0,00
50	COMB 2	0,9	-116,659	-29,334	61,955	21,24	21,24	-0,7	14,3	-9,1	-36,2	0,00
50	COMB 2	0,9	-133,336	-29,334	83,697	21,24	21,24	-1,0	23,3	-12,2	-36,2	0,00
51	COMB 2	0,9	-133,336	-44,123	83,697	21,24	21,24	-1,0	23,3	-12,2	-54,5	0,00
51	COMB 2	0,9	-150,012	-44,123	116,399	21,24	21,24	-1,3	38,7	-16,7	-54,5	0,00
53	COMB 2	1	-80,662	-35,124	14,878	21,24	21,24	-0,2	-0,1	-2,2	-39,0	0,00
53	COMB 2	1	-88,763	-19,614	34,034	21,24	21,24	-0,3	3,2	-4,2	-21,8	0,00
54	COMB 2	1	-82,764	-30,046	34,034	21,24	21,24	-0,3	3,7	-4,2	-33,4	0,00
54	COMB 2	1	-90,052	-14,137	49,496	21,24	21,24	-0,5	9,1	-6,2	-15,7	0,00
55	COMB 2	1	-84,262	-25,587	49,496	21,24	21,24	-0,5	10,0	-6,2	-28,4	0,00
55	COMB 2	1	-90,717	-9,323	61,713	21,24	21,24	-0,6	14,8	-7,6	-10,4	0,00
56	COMB 2	1	-85,281	-21,759	61,713	21,24	21,24	-0,6	15,7	-7,6	-24,2	0,00
56	COMB 2	1	-90,886	-5,183	71,142	21,24	21,24	-0,7	19,4	-8,8	-5,8	0,00
57	COMB 2	1	-85,948	-18,544	71,142	21,24	21,24	-0,7	20,3	-8,7	-20,6	0,00
57	COMB 2	1	-90,688	-1,700	78,227	21,24	21,24	-0,8	23,0	-9,6	-1,9	0,00
58	COMB 2	1	-86,381	-15,893	78,227	21,24	21,24	-0,8	23,8	-9,5	-17,7	0,00
58	COMB 2	1	-90,242	1,174	83,378	21,24	21,24	-0,8	25,7	-10,1	1,3	0,00
59	COMB 2	1	-86,685	-13,732	83,378	21,24	21,24	-0,8	26,4	-10,1	-15,3	0,00
59	COMB 2	1	-89,659	3,512	86,954	21,24	21,24	-0,8	27,6	-10,5	3,9	0,00
60	COMB 2	1	-86,952	-11,965	86,954	21,24	21,24	-0,8	28,2	-10,5	-13,3	0,00
60	COMB 2	1	-89,030	5,409	89,248	21,24	21,24	-0,9	28,9	-10,8	6,0	0,00
61	COMB 2	1	-87,251	-10,477	89,248	21,24	21,24	-0,9	29,3	-10,8	-11,6	0,00
61	COMB 2	1	-88,427	6,981	90,472	21,24	21,24	-0,9	29,7	-10,9	7,8	0,00
62	COMB 2	1	-87,621	-7,522	90,472	21,24	21,24	-0,9	29,8	-10,9	-8,4	0,00
62	COMB 2	1	-87,911	6,470	90,766	21,24	21,24	-0,9	29,9	-11,0	7,2	0,00



TABLE: Element Forces - Frames						Estradosso	Intradosso	VERIFICHE SEZIONALI				Apertura Fessure
Frame	StepType	Height	P	V2	M3	A <sub>f</sub>	A' <sub>f</sub>	σc [Mpa]	σs,inf [Mpa]	σs,sup [Mpa]	τ [kPa]	Wk [mm]
Text	Text	m	KN	KN	KN-m	cm <sup>2</sup>	cm <sup>2</sup>					
1	COMB 3	1	-138,257	-6,499	183,798	21,24	21,24	-1,8	68,4	-21,7	-7,2	0,00
1	COMB 3	1	-137,967	7,494	183,519	21,24	21,24	-1,8	68,4	-21,7	8,3	0,00
2	COMB 3	1	-138,880	-7,032	183,519	21,24	21,24	-1,8	68,2	-21,7	-7,8	0,00
2	COMB 3	1	-137,704	10,426	182,332	21,24	21,24	-1,8	67,8	-21,5	11,6	0,00
3	COMB 3	1	-139,719	-5,371	182,332	21,24	21,24	-1,8	67,4	-21,6	-6,0	0,00
3	COMB 3	1	-137,642	12,003	180,011	21,24	21,24	-1,7	66,6	-21,3	13,3	0,00
4	COMB 3	1	-140,681	-3,184	180,011	21,24	21,24	-1,7	66,0	-21,3	-3,5	0,00
4	COMB 3	1	-137,707	14,059	176,205	21,24	21,24	-1,7	64,6	-20,9	15,6	0,00
5	COMB 3	1	-141,648	-0,282	176,205	21,24	21,24	-1,7	63,8	-20,9	-0,3	0,00
5	COMB 3	1	-137,786	16,784	170,430	21,24	21,24	-1,7	61,6	-20,3	18,6	0,00
6	COMB 3	1	-142,473	3,494	170,430	21,24	21,24	-1,7	60,6	-20,3	3,9	0,00
6	COMB 3	1	-137,733	20,338	162,089	21,24	21,24	-1,6	57,2	-19,3	22,6	0,00
7	COMB 3	1	-142,978	8,268	162,089	21,24	21,24	-1,6	56,2	-19,4	9,2	0,00
7	COMB 3	1	-137,373	24,844	150,502	21,24	21,24	-1,5	51,3	-18,1	27,6	0,00
8	COMB 3	1	-142,968	14,117	150,502	21,24	21,24	-1,5	50,2	-18,1	15,7	0,00
8	COMB 3	1	-136,513	30,381	134,929	21,24	21,24	-1,3	43,4	-16,3	33,8	0,00
9	COMB 3	1	-142,239	21,074	134,929	21,24	21,24	-1,3	42,3	-16,4	23,4	0,00
9	COMB 3	1	-134,951	36,982	114,611	21,24	21,24	-1,1	33,3	-14,0	41,1	0,00
10	COMB 3	1	-140,585	29,118	114,611	21,24	21,24	-1,1	32,3	-14,1	32,4	0,00
10	COMB 3	1	-132,485	44,628	88,803	21,24	21,24	-0,9	20,9	-11,0	49,6	0,00
12	COMB 3	0,9	-150,012	69,430	159,979	21,24	21,24	-1,9	63,9	-22,4	85,7	0,00
12	COMB 3	0,9	-133,336	69,430	108,520	21,24	21,24	-1,3	37,3	-15,5	85,7	0,00
13	COMB 3	0,9	-133,336	46,159	108,520	21,24	21,24	-1,3	37,3	-15,5	57,0	0,00
13	COMB 3	0,9	-116,659	46,159	74,308	21,24	21,24	-0,9	21,0	-10,8	57,0	0,00
14	COMB 3	0,9	-116,659	27,573	74,308	21,24	21,24	-0,9	21,0	-10,8	34,0	0,00
14	COMB 3	0,9	-99,983	27,573	53,872	21,24	21,24	-0,6	12,7	-7,9	34,0	0,00
15	COMB 3	0,9	-99,983	13,672	53,872	21,24	21,24	-0,6	12,7	-7,9	16,9	0,00
15	COMB 3	0,9	-83,307	13,672	43,739	21,24	21,24	-0,5	9,9	-6,4	16,9	0,00
16	COMB 3	0,9	-81,673	17,027	43,739	21,24	21,24	-0,5	10,2	-6,4	21,0	0,00
16	COMB 3	0,9	-65,202	14,514	32,060	21,24	21,24	-0,4	6,7	-4,7	17,9	0,00
17	COMB 3	0,9	-64,604	16,369	32,060	21,24	21,24	-0,4	6,8	-4,7	20,2	0,00
17	COMB 3	0,9	-48,451	12,283	21,452	21,24	21,24	-0,2	3,8	-3,2	15,2	0,00
18	COMB 3	0,9	-47,053	16,864	21,452	21,24	21,24	-0,2	4,0	-3,2	20,8	0,00
18	COMB 3	0,9	-31,369	11,242	11,046	21,24	21,24	-0,1	1,2	-1,6	13,9	0,00
19	COMB 3	0,9	-30,142	14,208	11,046	21,24	21,24	-0,1	1,4	-1,6	17,5	0,00
19	COMB 3	0,9	-15,071	7,104	3,155	21,24	21,24	0,0	0,0	-0,5	8,8	0,00
20	COMB 3	0,9	-14,318	8,521	3,155	21,24	21,24	0,0	0,1	-0,5	10,5	0,00
20	COMB 3	0,9	0,000	0,000	0,000	21,24	21,24	0,0	0,0	0,0	0,0	0,00
43	COMB 3	0,9	0,000	0,000	0,000	21,24	21,24	0,0	0,0	0,0	0,0	0,00
43	COMB 3	0,9	-14,318	-8,521	3,155	21,24	21,24	0,0	0,1	-0,5	-10,5	0,00
44	COMB 3	0,9	-15,071	-7,104	3,155	21,24	21,24	0,0	0,0	-0,5	-8,8	0,00
44	COMB 3	0,9	-30,142	-14,208	11,046	21,24	21,24	-0,1	1,4	-1,6	-17,5	0,00
45	COMB 3	0,9	-31,369	-11,242	11,046	21,24	21,24	-0,1	1,2	-1,6	-13,9	0,00
45	COMB 3	0,9	-47,053	-16,864	21,452	21,24	21,24	-0,2	4,0	-3,2	-20,8	0,00
46	COMB 3	0,9	-48,451	-12,283	21,452	21,24	21,24	-0,2	3,8	-3,2	-15,2	0,00
46	COMB 3	0,9	-64,604	-16,369	32,060	21,24	21,24	-0,4	6,8	-4,7	-20,2	0,00
47	COMB 3	0,9	-65,202	-14,514	32,060	21,24	21,24	-0,4	6,7	-4,7	-17,9	0,00
47	COMB 3	0,9	-81,673	-17,027	43,739	21,24	21,24	-0,5	10,2	-6,4	-21,0	0,00
48	COMB 3	0,9	-83,307	-13,672	43,739	21,24	21,24	-0,5	9,9	-6,4	-16,9	0,00
48	COMB 3	0,9	-99,983	-13,672	53,872	21,24	21,24	-0,6	12,7	-7,9	-16,9	0,00
49	COMB 3	0,9	-99,983	-27,573	53,872	21,24	21,24	-0,6	12,7	-7,9	-34,0	0,00
49	COMB 3	0,9	-116,659	-27,573	74,308	21,24	21,24	-0,9	21,0	-10,8	-34,0	0,00
50	COMB 3	0,9	-116,659	-46,159	74,308	21,24	21,24	-0,9	21,0	-10,8	-57,0	0,00
50	COMB 3	0,9	-133,336	-46,159	108,520	21,24	21,24	-1,3	37,3	-15,5	-57,0	0,00
51	COMB 3	0,9	-133,336	-69,430	108,520	21,24	21,24	-1,3	37,3	-15,5	-85,7	0,00
51	COMB 3	0,9	-150,012	-69,430	159,979	21,24	21,24	-1,9	63,9	-22,4	-85,7	0,00
53	COMB 3	1	-132,484	-44,629	88,774	21,24	21,24	-0,9	20,9	-11,0	-49,6	0,00
53	COMB 3	1	-140,585	-29,119	114,582	21,24	21,24	-1,1	32,3	-14,1	-32,4	0,00
54	COMB 3	1	-134,951	-36,984	114,582	21,24	21,24	-1,1	33,3	-14,0	-41,1	0,00
54	COMB 3	1	-142,238	-21,076	134,901	21,24	21,24	-1,3	42,3	-16,4	-23,4	0,00
55	COMB 3	1	-136,512	-30,384	134,901	21,24	21,24	-1,3	43,4	-16,3	-33,8	0,00
55	COMB 3	1	-142,967	-14,120	150,476	21,24	21,24	-1,5	50,2	-18,1	-15,7	0,00
56	COMB 3	1	-137,372	-24,848	150,476	21,24	21,24	-1,5	51,3	-18,1	-27,6	0,00
56	COMB 3	1	-142,976	-8,271	162,066	21,24	21,24	-1,6	56,2	-19,4	-9,2	0,00
57	COMB 3	1	-137,732	-20,343	162,066	21,24	21,24	-1,6	57,2	-19,3	-22,6	0,00
57	COMB 3	1	-142,471	-3,499	170,410	21,24	21,24	-1,7	60,6	-20,3	-3,9	0,00
58	COMB 3	1	-137,785	-16,789	170,410	21,24	21,24	-1,7	61,5	-20,3	-18,7	0,00
58	COMB 3	1	-141,647	0,277	176,189	21,24	21,24	-1,7	63,8	-20,9	0,3	0,00
59	COMB 3	1	-137,706	-14,065	176,189	21,24	21,24	-1,7	64,6	-20,9	-15,6	0,00
59	COMB 3	1	-140,680	3,178	179,998	21,24	21,24	-1,7	66,0	-21,3	3,5	0,00
60	COMB 3	1	-137,641	-12,009	179,998	21,24	21,24	-1,7	66,6	-21,3	-13,3	0,00
60	COMB 3	1	-139,719	5,365	182,324	21,24	21,24	-1,8	67,4	-21,6	6,0	0,00
61	COMB 3	1	-137,703	-10,432	182,324	21,24	21,24	-1,8	67,8	-21,5	-11,6	0,00
61	COMB 3	1	-138,879	7,026	183,516	21,24	21,24	-1,8	68,2	-21,7	7,8	0,00
62	COMB 3	1	-137,967	-7,500	183,516	21,24	21,24	-1,8	68,4	-21,7	-8,3	0,00
62	COMB 3	1	-138,257	6,492	183,798	21,24	21,24	-1,8	68,4	-21,7	7,2	0,00

## **Verifiche allo S.L.U. di taglio**

Frame	StepType	Height	Vsdu	Vrdu'	Vrdu''	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	m	kN	kN	kN	kN	kN	cm <sup>2</sup> /m <sup>2</sup>
1	COMB 1	1	8,835	287,335	4586,842	620,2727405	4,4177	No Armatura
1	COMB1	1	10,755	287,136	4586,842	619,8427868	5,3774	No Armatura
2	COMB 1	1	9,090	287,477	4586,842	620,5795785	4,5451	No Armatura
2	COMB 1	1	15,352	286,683	4586,842	618,8654988	7,6762	No Armatura
3	COMB 1	1	6,640	287,414	4586,842	620,4447458	3,3201	No Armatura
3	COMB 1	1	17,683	286,074	4586,842	617,5514626	8,8417	No Armatura
4	COMB 1	1	4,192	287,161	4586,842	619,8980584	2,0958	No Armatura
4	COMB 1	1	19,949	285,368	4586,842	616,0274789	9,9743	No Armatura
5	COMB 1	1	1,758	286,756	4586,842	619,0236102	0,8792	No Armatura
5	COMB 1	1	22,134	284,618	4586,842	614,4071283	11,067	No Armatura
6	COMB 1	1	0,645	286,244	4586,842	617,9190274	0,3227	No Armatura
6	COMB 1	1	24,227	283,866	4586,842	612,7836868	12,1135	No Armatura
7	COMB 1	1	3,007	285,671	4586,842	616,6813858	1,5036	No Armatura
7	COMB 1	1	26,214	283,143	4586,842	611,2238485	13,1068	No Armatura
8	COMB 1	1	5,316	285,073	4586,842	615,3903015	2,6579	No Armatura
8	COMB 1	1	28,085	282,470	4586,842	609,7719784	14,0427	No Armatura
9	COMB 1	1	7,563	284,478	4586,842	614,1066266	3,7814	No Armatura
9	COMB 1	1	29,834	281,857	4586,842	608,4470771	14,917	No Armatura
10	COMB 1	1	9,743	283,905	4586,842	612,8688381	4,8713	No Armatura
10	COMB 1	1	31,457	281,304	4586,842	607,2541759	15,7283	No Armatura
12	COMB 1	0,9	0,000	355,611	4128,158	758,6870743	1,5918E-11	No Armatura
12	COMB 1	0,9	0,000	344,363	4128,158	734,6905034	1,5918E-11	No Armatura
13	COMB 1	0,9	0,000	344,363	4128,158	734,6905034	1,6555E-11	No Armatura
13	COMB 1	0,9	0,000	333,115	4128,158	710,6924935	1,6527E-11	No Armatura
14	COMB 1	0,9	0,000	333,115	4128,158	710,6924935	1,6555E-11	No Armatura
14	COMB 1	0,9	0,000	321,867	4128,158	686,6959227	1,6555E-11	No Armatura
15	COMB 1	0,9	0,000	321,867	4128,158	686,6959227	1,6555E-11	No Armatura
15	COMB 1	0,9	0,000	310,619	4128,158	662,6993518	1,6555E-11	No Armatura
16	COMB 1	0,9	17,592	309,976	4128,158	661,3265568	8,7962	No Armatura
16	COMB 1	0,9	14,074	310,481	4128,158	662,4046918	7,0371	No Armatura
17	COMB 1	0,9	22,882	309,398	4128,158	660,0940905	11,4408	No Armatura
17	COMB 1	0,9	17,161	316,009	4128,158	674,1975244	8,5806	No Armatura
18	COMB 1	0,9	23,610	314,223	4128,158	670,3883855	11,8048	No Armatura
18	COMB 1	0,9	15,739	331,847	4128,158	707,9887401	7,8694	No Armatura
19	COMB 1	0,9	19,891	328,819	4128,158	701,528217	9,9456	No Armatura
19	COMB 1	0,9	9,946	384,654	4128,158	820,6500284	4,9728	No Armatura
20	COMB 1	0,9	11,929	378,147	4128,158	806,7687432	5,9647	No Armatura
20	COMB 1	0,9	0,000	508,861	4128,158	1085,643087	2,513E-12	No Armatura
43	COMB 1	0,9	0,000	508,861	4128,158	1085,643087	5,0932E-12	No Armatura
43	COMB 1	0,9	11,929	378,147	4128,158	806,7687432	5,9647	No Armatura
44	COMB 1	0,9	9,946	384,654	4128,158	820,6500284	4,9728	No Armatura
44	COMB 1	0,9	19,891	328,819	4128,158	701,528217	9,9456	No Armatura
45	COMB 1	0,9	15,739	331,847	4128,158	707,9887401	7,8694	No Armatura
45	COMB 1	0,9	23,610	314,223	4128,158	670,3883855	11,8048	No Armatura
46	COMB 1	0,9	17,161	316,009	4128,158	674,1975244	8,5806	No Armatura
46	COMB 1	0,9	22,882	309,398	4128,158	660,0940905	11,4408	No Armatura
47	COMB 1	0,9	14,074	310,481	4128,158	662,4046918	7,0371	No Armatura
47	COMB 1	0,9	17,592	309,976	4128,158	661,3265568	8,7962	No Armatura
48	COMB 1	0,9	0,000	310,619	4128,158	662,6993518	0	No Armatura
48	COMB 1	0,9	0,000	321,867	4128,158	686,6959227	5,5958E-14	No Armatura
49	COMB 1	0,9	0,000	321,867	4128,158	686,6959227	0	No Armatura
49	COMB 1	0,9	0,000	333,115	4128,158	710,6924935	0	No Armatura
50	COMB 1	0,9	0,000	333,115	4128,158	710,6924935	1,9096E-12	No Armatura
50	COMB 1	0,9	0,000	344,363	4128,158	734,6905034	1,9376E-12	No Armatura
51	COMB 1	0,9	0,000	344,363	4128,158	734,6905034	6,3665E-13	No Armatura
51	COMB 1	0,9	0,000	355,611	4128,158	758,6870743	6,3665E-13	No Armatura
53	COMB 1	1	31,458	281,304	4586,842	607,2540109	15,729	No Armatura
53	COMB 1	1	9,744	283,904	4586,842	612,8662368	4,872	No Armatura
54	COMB 1	1	29,838	281,856	4586,842	608,4458449	14,9191	No Armatura
54	COMB 1	1	7,566	284,477	4586,842	614,1034827	3,7828	No Armatura
55	COMB 1	1	28,090	282,469	4586,842	609,7694778	14,0448	No Armatura
55	COMB 1	1	5,320	285,071	4586,842	615,3866336	2,66	No Armatura
56	COMB 1	1	26,219	283,142	4586,842	611,2215412	13,1096	No Armatura
56	COMB 1	1	3,013	285,669	4586,842	616,6763981	1,5064	No Armatura
57	COMB 1	1	24,234	283,864	4586,842	612,779942	12,117	No Armatura
57	COMB 1	1	0,652	286,242	4586,842	617,9147294	0,3262	No Armatura
58	COMB 1	1	22,142	284,616	4586,842	614,4038689	11,0712	No Armatura
58	COMB 1	1	1,750	286,754	4586,842	619,0193596	0,875	No Armatura
59	COMB 1	1	19,958	285,367	4586,842	616,024006	9,9792	No Armatura
59	COMB 1	1	4,183	287,159	4586,842	619,894224	2,0916	No Armatura
60	COMB 1	1	17,693	286,073	4586,842	617,5481117	8,8466	No Armatura
60	COMB 1	1	6,630	287,413	4586,842	620,4416402	3,3152	No Armatura
61	COMB 1	1	15,362	286,682	4586,842	618,8637766	7,6811	No Armatura
61	COMB 1	1	9,080	287,476	4586,842	620,5786854	4,5402	No Armatura
62	COMB 1	1	10,765	287,135	4586,842	619,841941	5,3823	No Armatura
62	COMB 1	1	8,826	287,335	4586,842	620,2727405	4,4128	No Armatura

Frame	StepType	Height	Vsdu	Vrdu'	Vrdu''	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	m	kN	kN	kN	kN	kN	cm <sup>2</sup> /m <sup>2</sup>
1	COMB 2	1	9,066	313,444	4586,842	676,6351269	4,5332	No Armatura
1	COMB2	1	10,522	313,441	4586,842	676,6286952	5,2612	No Armatura
2	COMB2	1	9,782	313,739	4586,842	677,2729044	4,8909	No Armatura
2	COMB2	1	14,659	313,745	4586,842	677,2848091	7,3297	No Armatura
3	COMB2	1	7,581	314,412	4586,842	678,7251524	3,7905	No Armatura
3	COMB2	1	16,743	314,492	4586,842	678,8965922	8,3713	No Armatura
4	COMB2	1	4,924	315,533	4586,842	681,1447316	2,4619	No Armatura
4	COMB2	1	19,218	315,818	4586,842	681,7593842	9,6089	No Armatura
5	COMB2	1	1,651	317,245	4586,842	684,8408752	0,8253	No Armatura
5	COMB2	1	22,243	317,976	4586,842	686,4180274	11,1216	No Armatura
6	COMB2	1	2,374	319,818	4586,842	690,3936147	1,1872	No Armatura
6	COMB2	1	25,956	321,448	4586,842	693,9134169	12,978	No Armatura
7	COMB2	1	7,252	323,770	4586,842	698,9250434	3,626	No Armatura
7	COMB2	1	30,458	327,257	4586,842	706,4535818	15,2292	No Armatura
8	COMB2	1	13,049	330,203	4586,842	712,8118671	6,5247	No Armatura
8	COMB2	1	35,819	337,969	4586,842	729,5764553	17,9095	No Armatura
9	COMB2	1	19,790	341,880	4586,842	738,0194348	9,8952	No Armatura
9	COMB2	1	42,062	362,340	4586,842	782,1869321	21,0308	No Armatura
10	COMB2	1	27,458	368,232	4586,842	794,9057526	13,7291	No Armatura
10	COMB2	1	49,172	462,113	4586,842	997,5675489	24,5861	No Armatura
12	COMB 2	0,9	61,772	289,563	4128,158	617,7757362	30,8861	No Armatura
12	COMB 2	0,9	61,772	297,859	4128,158	635,4744115	30,8861	No Armatura
13	COMB 2	0,9	41,068	297,859	4128,158	635,4744115	20,5338	No Armatura
13	COMB 2	0,9	41,068	305,761	4128,158	652,3331333	20,5338	No Armatura
14	COMB 2	0,9	24,532	305,761	4128,158	652,3331333	12,2661	No Armatura
14	COMB 2	0,9	24,532	310,091	4128,158	661,5721591	12,2661	No Armatura
15	COMB 2	0,9	12,165	310,091	4128,158	661,5721591	6,0823	No Armatura
15	COMB 2	0,9	12,165	307,830	4128,158	656,7491247	6,0823	No Armatura
16	COMB 2	0,9	21,561	306,942	4128,158	654,8536822	10,7807	No Armatura
16	COMB 2	0,9	18,043	310,093	4128,158	661,5761396	9,0216	No Armatura
17	COMB 2	0,9	22,904	309,375	4128,158	660,0447587	11,452	No Armatura
17	COMB 2	0,9	17,184	316,004	4128,158	674,1866798	8,5918	No Armatura
18	COMB 2	0,9	23,610	314,223	4128,158	670,3883855	11,8048	No Armatura
18	COMB 2	0,9	15,739	331,847	4128,158	707,9887401	7,8694	No Armatura
19	COMB 2	0,9	19,891	328,819	4128,158	701,528217	9,9456	No Armatura
19	COMB 2	0,9	9,946	384,654	4128,158	820,6500284	4,9728	No Armatura
20	COMB 2	0,9	11,929	378,147	4128,158	806,7687432	5,9647	No Armatura
20	COMB 2	0,9	0,000	254,431	4128,158	542,8215434	3,7863E-12	No Armatura
43	COMB 2	0,9	0,000	254,431	4128,158	542,8215434	1,2733E-12	No Armatura
43	COMB 2	0,9	11,929	378,147	4128,158	806,7687432	5,9647	No Armatura
44	COMB 2	0,9	9,946	384,654	4128,158	820,6500284	4,9728	No Armatura
44	COMB 2	0,9	19,891	328,819	4128,158	701,528217	9,9456	No Armatura
45	COMB 2	0,9	15,739	331,847	4128,158	707,9887401	7,8694	No Armatura
45	COMB 2	0,9	23,610	314,223	4128,158	670,3883855	11,8048	No Armatura
46	COMB 2	0,9	17,184	316,004	4128,158	674,1866798	8,5918	No Armatura
46	COMB 2	0,9	22,904	309,375	4128,158	660,0447587	11,452	No Armatura
47	COMB 2	0,9	18,043	310,093	4128,158	661,5761396	9,0216	No Armatura
47	COMB 2	0,9	21,561	306,942	4128,158	654,8536822	10,7807	No Armatura
48	COMB 2	0,9	12,165	307,830	4128,158	656,7491247	6,0823	No Armatura
48	COMB 2	0,9	12,165	310,091	4128,158	661,5721591	6,0823	No Armatura
49	COMB 2	0,9	24,532	310,091	4128,158	661,5721591	12,2661	No Armatura
49	COMB 2	0,9	24,532	305,761	4128,158	652,3331333	12,2661	No Armatura
50	COMB 2	0,9	41,068	305,761	4128,158	652,3331333	20,5338	No Armatura
50	COMB 2	0,9	41,068	297,859	4128,158	635,4744115	20,5338	No Armatura
51	COMB 2	0,9	61,772	297,859	4128,158	635,4744115	30,8861	No Armatura
51	COMB 2	0,9	61,772	289,563	4128,158	617,7757362	30,8861	No Armatura
53	COMB 2	1	49,174	462,434	4586,842	998,2611658	24,5868	No Armatura
53	COMB 2	1	27,460	368,299	4586,842	795,0512052	13,7298	No Armatura
54	COMB 2	1	42,064	362,402	4586,842	782,3204339	21,0322	No Armatura
54	COMB 2	1	19,792	341,911	4586,842	738,0865681	9,8959	No Armatura
55	COMB 2	1	35,822	337,997	4586,842	729,6378137	17,9109	No Armatura
55	COMB 2	1	13,052	330,221	4586,842	712,8512822	6,5261	No Armatura
56	COMB 2	1	30,463	327,274	4586,842	706,4893951	15,2313	No Armatura
56	COMB 2	1	7,256	323,782	4586,842	698,9516457	3,6281	No Armatura
57	COMB 2	1	25,962	321,460	4586,842	693,9385187	12,9808	No Armatura
57	COMB 2	1	2,380	319,826	4586,842	690,4123814	1,19	No Armatura
58	COMB 2	1	22,250	317,984	4586,842	686,435859	11,1251	No Armatura
58	COMB 2	1	1,644	317,251	4586,842	684,8532974	0,8218	No Armatura
59	COMB 2	1	19,225	315,824	4586,842	681,7721146	9,6124	No Armatura
59	COMB 2	1	4,917	315,537	4586,842	681,1537488	2,4584	No Armatura
60	COMB 2	1	16,751	314,496	4586,842	678,9053122	8,3755	No Armatura
60	COMB 2	1	7,573	314,415	4586,842	678,7303972	3,7863	No Armatura
61	COMB 2	1	14,668	313,748	4586,842	677,2907421	7,3339	No Armatura
61	COMB 2	1	9,773	313,740	4586,842	677,2746809	4,8867	No Armatura
62	COMB 2	1	10,531	313,442	4586,842	676,6312465	5,2654	No Armatura
62	COMB 2	1	9,058	313,444	4586,842	676,6351269	4,529	No Armatura

Frame	StepType	Height	Vsdu	Vrdu'	Vrdu''	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	m	kN	kN	kN	kN	kN	cm <sup>2</sup> /m <sup>2</sup>
1	COMB 3	1	9,099	306,207	4586,842	661,0115689	4,5493	No Armatura
1	COMB 3	1	10,492	306,192	4586,842	660,9799154	5,2458	No Armatura
2	COMB 3	1	9,845	306,358	4586,842	661,3392272	4,9224	No Armatura
2	COMB 3	1	14,596	306,308	4586,842	661,2294257	7,2982	No Armatura
3	COMB 3	1	7,519	306,677	4586,842	662,027596	3,7597	No Armatura
3	COMB 3	1	16,804	306,622	4586,842	661,9078863	8,4021	No Armatura
4	COMB 3	1	4,458	307,187	4586,842	663,1271997	2,2288	No Armatura
4	COMB 3	1	19,683	307,187	4586,842	663,1273513	9,8413	No Armatura
5	COMB 3	1	0,395	307,935	4586,842	664,74272	0,1974	No Armatura
5	COMB 3	1	23,498	308,088	4586,842	665,0734133	11,7488	No Armatura
6	COMB 3	1	4,892	309,008	4586,842	667,0596552	2,4458	No Armatura
6	COMB 3	1	28,473	309,469	4586,842	668,0543155	14,2366	No Armatura
7	COMB 3	1	11,575	310,552	4586,842	670,3913957	5,7876	No Armatura
7	COMB 3	1	34,782	311,578	4586,842	672,6068214	17,3908	No Armatura
8	COMB 3	1	19,764	312,822	4586,842	675,2918056	9,8819	No Armatura
8	COMB 3	1	42,533	314,889	4586,842	679,7550949	21,2667	No Armatura
9	COMB 3	1	29,504	316,309	4586,842	682,8200878	14,7518	No Armatura
9	COMB 3	1	51,775	320,434	4586,842	691,7245941	25,8874	No Armatura
10	COMB 3	1	40,765	322,079	4586,842	695,274956	20,3826	No Armatura
10	COMB 3	1	62,479	330,954	4586,842	714,4343231	31,2396	No Armatura
12	COMB 3	0,9	97,202	279,993	4128,158	597,3575827	48,601	No Armatura
12	COMB 3	0,9	97,202	287,925	4128,158	614,2809717	48,601	No Armatura
13	COMB 3	0,9	64,623	287,925	4128,158	614,2809717	32,3113	No Armatura
13	COMB 3	0,9	64,623	297,228	4128,158	634,1283126	32,3113	No Armatura
14	COMB 3	0,9	38,602	297,228	4128,158	634,1283126	19,3011	No Armatura
14	COMB 3	0,9	38,602	305,024	4128,158	650,7623806	19,3011	No Armatura
15	COMB 3	0,9	19,141	305,024	4128,158	650,7623806	9,5704	No Armatura
15	COMB 3	0,9	19,141	306,352	4128,158	653,5955615	9,5704	No Armatura
16	COMB 3	0,9	23,838	305,334	4128,158	651,422818	11,9189	No Armatura
16	COMB 3	0,9	20,320	309,871	4128,158	661,1021749	10,1598	No Armatura
17	COMB 3	0,9	22,917	309,362	4128,158	660,0173644	11,4583	No Armatura
17	COMB 3	0,9	17,196	316,000	4128,158	674,1785464	8,5981	No Armatura
18	COMB 3	0,9	23,610	314,223	4128,158	670,3883855	11,8048	No Armatura
18	COMB 3	0,9	15,739	331,847	4128,158	707,9887401	7,8694	No Armatura
19	COMB 3	0,9	19,891	328,819	4128,158	701,528217	9,9456	No Armatura
19	COMB 3	0,9	9,946	384,654	4128,158	820,6500284	4,9728	No Armatura
20	COMB 3	0,9	11,929	378,147	4128,158	806,7687432	5,9647	No Armatura
20	COMB 3	0,9	0,000	508,861	4128,158	1085,643087	1,2397E-12	No Armatura
43	COMB 3	0,9	0,000	254,431	4128,158	542,8215434	6,3665E-12	No Armatura
43	COMB 3	0,9	11,929	378,147	4128,158	806,7687432	5,9647	No Armatura
44	COMB 3	0,9	9,946	384,654	4128,158	820,6500284	4,9728	No Armatura
44	COMB 3	0,9	19,891	328,819	4128,158	701,528217	9,9456	No Armatura
45	COMB 3	0,9	15,739	331,847	4128,158	707,9887401	7,8694	No Armatura
45	COMB 3	0,9	23,610	314,223	4128,158	670,3883855	11,8048	No Armatura
46	COMB 3	0,9	17,196	316,000	4128,158	674,1785464	8,5981	No Armatura
46	COMB 3	0,9	22,917	309,362	4128,158	660,0173644	11,4583	No Armatura
47	COMB 3	0,9	20,320	309,871	4128,158	661,1021749	10,1598	No Armatura
47	COMB 3	0,9	23,838	305,334	4128,158	651,422818	11,9189	No Armatura
48	COMB 3	0,9	19,141	306,352	4128,158	653,5955615	9,5704	No Armatura
48	COMB 3	0,9	19,141	305,024	4128,158	650,7623806	9,5704	No Armatura
49	COMB 3	0,9	38,602	305,024	4128,158	650,7623806	19,3011	No Armatura
49	COMB 3	0,9	38,602	297,228	4128,158	634,1283126	19,3011	No Armatura
50	COMB 3	0,9	64,623	297,228	4128,158	634,1283126	32,3113	No Armatura
50	COMB 3	0,9	64,623	287,925	4128,158	614,2809717	32,3113	No Armatura
51	COMB 3	0,9	97,202	287,925	4128,158	614,2809717	48,601	No Armatura
51	COMB 3	0,9	97,202	279,993	4128,158	597,3575827	48,601	No Armatura
53	COMB 3	1	62,481	330,970	4586,842	714,4689519	31,2403	No Armatura
53	COMB 3	1	40,767	322,089	4586,842	695,2971461	20,3833	No Armatura
54	COMB 3	1	51,778	320,444	4586,842	691,7458949	25,8888	No Armatura
54	COMB 3	1	29,506	316,316	4586,842	682,8350732	14,7532	No Armatura
55	COMB 3	1	42,538	314,896	4586,842	679,7694555	21,2688	No Armatura
55	COMB 3	1	19,768	312,827	4586,842	675,3029522	9,884	No Armatura
56	COMB 3	1	34,787	311,583	4586,842	672,6175131	17,3936	No Armatura
56	COMB 3	1	11,579	310,555	4586,842	670,3995064	5,7897	No Armatura
57	COMB 3	1	28,480	309,473	4586,842	668,0625416	14,2401	No Armatura
57	COMB 3	1	4,899	309,011	4586,842	667,0658228	2,4493	No Armatura
58	COMB 3	1	23,505	308,091	4586,842	665,0797739	11,7523	No Armatura
58	COMB 3	1	0,388	307,937	4586,842	664,7476155	0,1939	No Armatura
59	COMB 3	1	19,691	307,189	4586,842	663,1320992	9,8455	No Armatura
59	COMB 3	1	4,449	307,188	4586,842	663,1306241	2,2246	No Armatura
60	COMB 3	1	16,813	306,623	4586,842	661,9112281	8,4063	No Armatura
60	COMB 3	1	7,511	306,678	4586,842	662,0300244	3,7555	No Armatura
61	COMB 3	1	14,605	306,308	4586,842	661,2314229	7,3024	No Armatura
61	COMB 3	1	9,836	306,359	4586,842	661,3399058	4,9182	No Armatura
62	COMB 3	1	10,500	306,192	4586,842	660,9809805	5,25	No Armatura
62	COMB 3	1	9,089	306,207	4586,842	661,0115689	4,5444	No Armatura

Frame	StepType	Height	Vsdu	Vrdu'	Vrdu''	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	m	kN	kN	kN	kN	kN	cm <sup>2</sup> /m <sup>2</sup>
1	COMB 4	1	33,172	311,616	4586,842	672,6895343	16,586	No Armatura
1	COMB 4	1	47,164	312,590	4586,842	674,7924127	23,582	No Armatura
2	COMB 4	1	35,215	312,888	4586,842	675,4347967	17,6075	No Armatura
2	COMB 4	1	52,673	314,286	4586,842	678,4531694	26,3365	No Armatura
3	COMB 4	1	40,944	314,736	4586,842	679,424561	20,472	No Armatura
3	COMB 4	1	58,318	316,449	4586,842	683,1227976	29,159	No Armatura
4	COMB 4	1	48,865	317,021	4586,842	684,3557851	24,4325	No Armatura
4	COMB 4	1	66,109	319,253	4586,842	689,174068	33,0545	No Armatura
5	COMB 4	1	59,521	319,933	4586,842	690,6426092	29,7605	No Armatura
5	COMB 4	1	76,587	323,037	4586,842	697,342957	38,2935	No Armatura
6	COMB 4	1	73,333	323,809	4586,842	699,0110275	36,6665	No Armatura
6	COMB 4	1	90,177	328,433	4586,842	708,9911492	45,0885	No Armatura
7	COMB 4	1	90,587	329,278	4586,842	710,8165518	45,2935	No Armatura
7	COMB 4	1	107,163	336,741	4586,842	726,9264456	53,5815	No Armatura
8	COMB 4	1	111,412	337,638	4586,842	728,8635587	55,706	No Armatura
8	COMB 4	1	127,676	351,135	4586,842	757,9984659	63,838	No Armatura
9	COMB 4	1	135,780	352,062	4586,842	759,9999017	67,89	No Armatura
9	COMB 4	1	151,689	381,918	4586,842	824,450793	75,8445	No Armatura
10	COMB 4	1	163,500	382,851	4586,842	826,4643522	81,75	No Armatura
10	COMB 4	1	179,010	492,317	4586,842	1062,771115	89,505	No Armatura
12	COMB 4	0,9	88,377	433,716	4128,158	925,3238586	44,1885	No Armatura
12	COMB 4	0,9	88,377	469,860	4128,158	1002,434936	44,1885	No Armatura
13	COMB 4	0,9	5,227	466,016	4128,158	994,2346843	2,6135	No Armatura
13	COMB 4	0,9	5,227	420,531	4128,158	897,1931041	2,6135	No Armatura
14	COMB 4	0,9	12,194	417,153	4128,158	889,9851676	6,097	No Armatura
14	COMB 4	0,9	12,194	453,461	4128,158	967,4478066	6,097	No Armatura
15	COMB 4	0,9	20,414	448,753	4128,158	957,4045686	10,207	No Armatura
15	COMB 4	0,9	20,414	508,861	4128,158	1085,643087	10,207	No Armatura
16	COMB 4	0,9	8,915	508,861	4128,158	1085,643087	4,4575	No Armatura
16	COMB 4	0,9	11,429	508,861	4128,158	1085,643087	5,7145	No Armatura
17	COMB 4	0,9	2,881	508,861	4128,158	1085,643087	1,4405	No Armatura
17	COMB 4	0,9	6,967	508,861	4128,158	1085,643087	3,4835	No Armatura
18	COMB 4	0,9	3,688	508,861	4128,158	1085,643087	1,844	No Armatura
18	COMB 4	0,9	1,933	508,861	4128,158	1085,643087	0,9665	No Armatura
19	COMB 4	0,9	6,347	508,861	4128,158	1085,643087	3,1735	No Armatura
19	COMB 4	0,9	0,757	508,861	4128,158	1085,643087	0,3785	No Armatura
20	COMB 4	0,9	5,089	508,861	4128,158	1085,643087	2,5445	No Armatura
20	COMB 4	0,9	3,432	508,861	4128,158	1085,643087	1,716	No Armatura
43	COMB 4	0,9	6,331	508,861	4128,158	1085,643087	3,1655	No Armatura
43	COMB 4	0,9	14,852	321,809	4128,158	686,572498	7,426	No Armatura
44	COMB 4	0,9	19,798	329,137	4128,158	702,2068547	9,899	No Armatura
44	COMB 4	0,9	26,902	300,627	4128,158	641,3812905	13,451	No Armatura
45	COMB 4	0,9	30,154	305,483	4128,158	651,7413376	15,077	No Armatura
45	COMB 4	0,9	35,776	292,412	4128,158	623,8538046	17,888	No Armatura
46	COMB 4	0,9	49,229	293,560	4128,158	626,3041484	24,6145	No Armatura
46	COMB 4	0,9	53,316	283,628	4128,158	605,1131198	26,658	No Armatura
47	COMB 4	0,9	82,116	284,618	4128,158	607,2261022	41,058	No Armatura
47	COMB 4	0,9	84,629	276,343	4128,158	589,5707845	42,3145	No Armatura
48	COMB 4	0,9	111,276	280,081	4128,158	597,5461749	55,638	No Armatura
48	COMB 4	0,9	111,276	273,698	4128,158	583,9284442	55,638	No Armatura
49	COMB 4	0,9	156,715	274,165	4128,158	584,9242553	78,3575	No Armatura
49	COMB 4	0,9	156,715	269,405	4128,158	574,7697493	78,3575	No Armatura
50	COMB 4	0,9	206,839	269,716	4128,158	575,4330694	103,4195	No Armatura
50	COMB 4	0,9	206,839	266,310	4128,158	568,1671346	103,4195	No Armatura
51	COMB 4	0,9	261,648	266,526	4128,158	568,6275559	130,824	No Armatura
51	COMB 4	0,9	261,648	264,067	4128,158	563,3814001	130,824	No Armatura
53	COMB 4	1	63,012	308,278	4586,842	665,4820753	31,506	No Armatura
53	COMB 4	1	47,502	307,421	4586,842	663,6333732	23,751	No Armatura
54	COMB 4	1	41,526	307,420	4586,842	663,6299043	20,763	No Armatura
54	COMB 4	1	25,618	307,076	4586,842	662,8880095	12,809	No Armatura
55	COMB 4	1	23,443	306,966	4586,842	662,6507308	11,7215	No Armatura
55	COMB 4	1	7,179	306,996	4586,842	662,7151656	3,5895	No Armatura
56	COMB 4	1	8,743	306,821	4586,842	662,3380359	4,3715	No Armatura
56	COMB 4	1	7,833	307,131	4586,842	663,0063036	3,9165	No Armatura
57	COMB 4	1	2,766	306,930	4586,842	662,5723357	1,383	No Armatura
57	COMB 4	1	19,610	307,452	4586,842	663,6991603	9,805	No Armatura
58	COMB 4	1	11,436	307,259	4586,842	663,2842531	5,718	No Armatura
58	COMB 4	1	28,502	307,944	4586,842	664,7617261	14,251	No Armatura
59	COMB 4	1	17,756	307,792	4586,842	664,4346451	8,878	No Armatura
59	COMB 4	1	34,999	308,603	4586,842	666,1842582	17,4995	No Armatura
60	COMB 4	1	22,327	308,520	4586,842	666,0065642	11,1635	No Armatura
60	COMB 4	1	39,701	309,434	4586,842	667,9784239	19,8505	No Armatura
61	COMB 4	1	25,831	309,445	4586,842	668,0017197	12,9155	No Armatura
61	COMB 4	1	43,289	310,454	4586,842	670,1805349	21,6445	No Armatura
62	COMB 4	1	30,427	310,556	4586,842	670,4001186	15,2135	No Armatura
62	COMB 4	1	44,420	311,440	4586,842	672,3096685	22,21	No Armatura

Frame	StepType	Height	Vsdu	Vrdu'	Vrdu''	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	m	kN	kN	kN	kN	kN	cm <sup>2</sup> /m <sup>2</sup>
1	COMB 5	1	44,452	311,442	4586,842	672,3138258	22,226	No Armatura
1	COMB 5	1	30,460	310,557	4586,842	670,4023287	15,23	No Armatura
2	COMB 5	1	43,321	310,455	4586,842	670,1828422	21,6605	No Armatura
2	COMB 5	1	25,862	309,445	4586,842	668,0017737	12,931	No Armatura
3	COMB 5	1	39,732	309,434	4586,842	667,9787407	19,866	No Armatura
3	COMB 5	1	22,358	308,520	4586,842	666,0048102	11,179	No Armatura
4	COMB 5	1	35,029	308,602	4586,842	666,1826544	17,5145	No Armatura
4	COMB 5	1	17,786	307,791	4586,842	664,4313623	8,893	No Armatura
5	COMB 5	1	28,532	307,942	4586,842	664,7585985	14,266	No Armatura
5	COMB 5	1	11,465	307,257	4586,842	663,2796051	5,7325	No Armatura
6	COMB 5	1	19,639	307,450	4586,842	663,6946618	9,8195	No Armatura
6	COMB 5	1	2,795	306,927	4586,842	662,5663974	1,3975	No Armatura
7	COMB 5	1	7,863	307,128	4586,842	663,0003804	3,9315	No Armatura
7	COMB 5	1	8,713	306,818	4586,842	662,3306709	4,3565	No Armatura
8	COMB 5	1	7,148	306,992	4586,842	662,7079273	3,574	No Armatura
8	COMB 5	1	23,412	306,962	4586,842	662,6419186	11,706	No Armatura
9	COMB 5	1	25,587	307,072	4586,842	662,879318	12,7935	No Armatura
9	COMB 5	1	41,495	307,415	4586,842	663,6192203	20,7475	No Armatura
10	COMB 5	1	47,469	307,416	4586,842	663,6228175	23,7345	No Armatura
10	COMB 5	1	62,979	308,271	4586,842	665,469079	31,4895	No Armatura
12	COMB 5	0,9	261,648	264,067	4128,158	563,3814001	130,824	No Armatura
12	COMB 5	0,9	261,648	266,526	4128,158	568,6275559	130,824	No Armatura
13	COMB 5	0,9	206,839	266,310	4128,158	568,1671346	103,4195	No Armatura
13	COMB 5	0,9	206,839	269,716	4128,158	575,4330694	103,4195	No Armatura
14	COMB 5	0,9	156,715	269,405	4128,158	574,7697493	78,3575	No Armatura
14	COMB 5	0,9	156,715	274,165	4128,158	584,9242553	78,3575	No Armatura
15	COMB 5	0,9	111,276	273,698	4128,158	583,9284442	55,638	No Armatura
15	COMB 5	0,9	111,276	280,081	4128,158	597,5461749	55,638	No Armatura
16	COMB 5	0,9	84,629	276,343	4128,158	589,5707845	42,3145	No Armatura
16	COMB 5	0,9	82,116	284,618	4128,158	607,2261022	41,058	No Armatura
17	COMB 5	0,9	53,316	283,628	4128,158	605,1131198	26,658	No Armatura
17	COMB 5	0,9	49,229	293,560	4128,158	626,3041484	24,6145	No Armatura
18	COMB 5	0,9	35,776	292,412	4128,158	623,8538046	17,888	No Armatura
18	COMB 5	0,9	30,154	305,483	4128,158	651,7413376	15,077	No Armatura
19	COMB 5	0,9	26,902	300,627	4128,158	641,3812905	13,451	No Armatura
19	COMB 5	0,9	19,798	329,137	4128,158	702,2068547	9,899	No Armatura
20	COMB 5	0,9	14,852	321,809	4128,158	686,572498	7,426	No Armatura
20	COMB 5	0,9	6,331	508,861	4128,158	1085,643087	3,1655	No Armatura
43	COMB 5	0,9	3,432	508,861	4128,158	1085,643087	1,716	No Armatura
43	COMB 5	0,9	5,089	508,861	4128,158	1085,643087	2,5445	No Armatura
44	COMB 5	0,9	0,757	508,861	4128,158	1085,643087	0,3785	No Armatura
44	COMB 5	0,9	6,347	508,861	4128,158	1085,643087	3,1735	No Armatura
45	COMB 5	0,9	1,933	508,861	4128,158	1085,643087	0,9665	No Armatura
45	COMB 5	0,9	3,688	508,861	4128,158	1085,643087	1,844	No Armatura
46	COMB 5	0,9	6,967	508,861	4128,158	1085,643087	3,4835	No Armatura
46	COMB 5	0,9	2,881	508,861	4128,158	1085,643087	1,4405	No Armatura
47	COMB 5	0,9	11,429	508,861	4128,158	1085,643087	5,7145	No Armatura
47	COMB 5	0,9	8,915	508,861	4128,158	1085,643087	4,4575	No Armatura
48	COMB 5	0,9	20,414	508,861	4128,158	1085,643087	10,207	No Armatura
48	COMB 5	0,9	20,414	448,753	4128,158	957,4045686	10,207	No Armatura
49	COMB 5	0,9	12,194	453,461	4128,158	967,4478066	6,097	No Armatura
49	COMB 5	0,9	12,194	417,153	4128,158	889,9851676	6,097	No Armatura
50	COMB 5	0,9	5,233	420,531	4128,158	897,1931041	2,6165	No Armatura
50	COMB 5	0,9	5,233	466,051	4128,158	994,3084887	2,6165	No Armatura
51	COMB 5	0,9	88,355	469,895	4128,158	1002,510081	44,1775	No Armatura
51	COMB 5	0,9	88,355	433,772	4128,158	925,4416272	44,1775	No Armatura
53	COMB 5	1	179,025	492,973	4586,842	1064,186068	89,5125	No Armatura
53	COMB 5	1	163,515	382,986	4586,842	826,7570542	81,7575	No Armatura
54	COMB 5	1	151,710	382,052	4586,842	824,7400189	75,855	No Armatura
54	COMB 5	1	135,801	352,120	4586,842	760,1262915	67,9005	No Armatura
55	COMB 5	1	127,702	351,193	4586,842	758,1234721	63,851	No Armatura
55	COMB 5	1	111,438	337,671	4586,842	728,9346266	55,719	No Armatura
56	COMB 5	1	107,193	336,773	4586,842	726,9963014	53,5965	No Armatura
56	COMB 5	1	90,616	329,299	4586,842	710,8615187	45,308	No Armatura
57	COMB 5	1	90,209	328,453	4586,842	709,0354387	45,1045	No Armatura
57	COMB 5	1	73,365	323,824	4586,842	699,0415897	36,6825	No Armatura
58	COMB 5	1	76,621	323,051	4586,842	697,3730678	38,3105	No Armatura
58	COMB 5	1	59,554	319,943	4586,842	690,6638664	29,777	No Armatura
59	COMB 5	1	66,143	319,262	4586,842	689,1950602	33,0715	No Armatura
59	COMB 5	1	48,899	317,027	4586,842	684,3705774	24,4495	No Armatura
60	COMB 5	1	58,352	316,456	4586,842	683,1374807	29,176	No Armatura
60	COMB 5	1	40,978	314,741	4586,842	679,4346026	20,489	No Armatura
61	COMB 5	1	52,707	314,291	4586,842	678,4632297	26,3535	No Armatura
61	COMB 5	1	35,249	312,891	4586,842	675,441347	17,6245	No Armatura
62	COMB 5	1	47,198	312,593	4586,842	674,7989496	23,599	No Armatura
62	COMB 5	1	33,205	311,618	4586,842	672,693773	16,6025	No Armatura

Frame	StepType	Height	Vsdu	Vrdu'	Vrdu''	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	m	kN	kN	kN	kN	kN	cm <sup>2</sup> /m <sup>2</sup>
1	COMB 6	1	36,835	310,191	4586,842	669,6122095	18,4175	No Armatura
1	COMB 6	1	50,828	311,159	4586,842	671,7024739	25,414	No Armatura
2	COMB 6	1	38,428	311,434	4586,842	672,2962816	19,214	No Armatura
2	COMB 6	1	55,887	312,805	4586,842	675,2551318	27,9435	No Armatura
3	COMB 6	1	43,614	313,228	4586,842	676,1686115	21,807	No Armatura
3	COMB 6	1	60,988	314,878	4586,842	679,7307048	30,494	No Armatura
4	COMB 6	1	50,945	315,421	4586,842	680,9037544	25,4725	No Armatura
4	COMB 6	1	68,188	317,531	4586,842	685,4582886	34,094	No Armatura
5	COMB 6	1	60,976	318,184	4586,842	686,8665109	30,488	No Armatura
5	COMB 6	1	78,042	321,063	4586,842	693,0824435	39,021	No Armatura
6	COMB 6	1	74,142	321,808	4586,842	694,6914698	37,071	No Armatura
6	COMB 6	1	90,986	326,018	4586,842	703,7779886	45,493	No Armatura
7	COMB 6	1	90,738	326,837	4586,842	705,5464906	45,369	No Armatura
7	COMB 6	1	107,314	333,490	4586,842	719,9081787	53,657	No Armatura
8	COMB 6	1	110,903	334,362	4586,842	721,7908694	55,4515	No Armatura
8	COMB 6	1	127,167	346,046	4586,842	747,0138666	63,5835	No Armatura
9	COMB 6	1	134,615	346,949	4586,842	748,9636965	67,3075	No Armatura
9	COMB 6	1	150,523	371,445	4586,842	801,8432123	75,2615	No Armatura
10	COMB 6	1	161,689	372,356	4586,842	803,8098222	80,8445	No Armatura
10	COMB 6	1	177,199	449,221	4586,842	969,7387962	88,5995	No Armatura
12	COMB 6	0,9	84,008	508,861	4128,158	1085,643087	42,004	No Armatura
12	COMB 6	0,9	84,008	340,936	4128,158	727,3779928	42,004	No Armatura
13	COMB 6	0,9	2,291	343,209	4128,158	732,2285258	1,1455	No Armatura
13	COMB 6	0,9	2,291	327,232	4128,158	698,1421767	1,1455	No Armatura
14	COMB 6	0,9	12,194	329,427	4128,158	702,8255762	6,097	No Armatura
14	COMB 6	0,9	12,194	330,456	4128,158	705,0195786	6,097	No Armatura
15	COMB 6	0,9	20,414	333,144	4128,158	710,7550485	10,207	No Armatura
15	COMB 6	0,9	20,414	355,234	4128,158	757,8839683	10,207	No Armatura
16	COMB 6	0,9	13,190	363,818	4128,158	776,1975054	6,595	No Armatura
16	COMB 6	0,9	15,703	401,421	4128,158	856,4213283	7,8515	No Armatura
17	COMB 6	0,9	8,441	411,245	4128,158	877,3811149	4,2205	No Armatura
17	COMB 6	0,9	12,528	501,752	4128,158	1070,476159	6,264	No Armatura
18	COMB 6	0,9	2,049	508,861	4128,158	1085,643087	1,0245	No Armatura
18	COMB 6	0,9	7,670	508,861	4128,158	1085,643087	3,835	No Armatura
19	COMB 6	0,9	1,514	508,861	4128,158	1085,643087	0,757	No Armatura
19	COMB 6	0,9	5,590	508,861	4128,158	1085,643087	2,795	No Armatura
20	COMB 6	0,9	2,190	508,861	4128,158	1085,643087	1,095	No Armatura
20	COMB 6	0,9	6,331	508,861	4128,158	1085,643087	3,1655	No Armatura
43	COMB 6	0,9	3,432	508,861	4128,158	1085,643087	1,716	No Armatura
43	COMB 6	0,9	11,954	314,571	4128,158	671,1302747	5,977	No Armatura
44	COMB 6	0,9	14,965	288,591	4128,158	615,7018175	7,4825	No Armatura
44	COMB 6	0,9	22,069	294,093	4128,158	627,4398829	11,0345	No Armatura
45	COMB 6	0,9	24,418	289,069	4128,158	616,7210005	12,209	No Armatura
45	COMB 6	0,9	30,039	286,547	4128,158	611,3410844	15,0195	No Armatura
46	COMB 6	0,9	43,669	282,224	4128,158	602,1187246	21,8345	No Armatura
46	COMB 6	0,9	47,755	277,807	4128,158	592,6938439	23,8775	No Armatura
47	COMB 6	0,9	77,841	275,849	4128,158	588,517395	38,9205	No Armatura
47	COMB 6	0,9	80,354	271,107	4128,158	578,4003937	40,177	No Armatura
48	COMB 6	0,9	111,276	273,601	4128,158	583,7221695	55,638	No Armatura
48	COMB 6	0,9	111,276	269,197	4128,158	574,3247704	55,638	No Armatura
49	COMB 6	0,9	156,715	268,692	4128,158	573,2488338	78,3575	No Armatura
49	COMB 6	0,9	156,715	265,607	4128,158	566,6660956	78,3575	No Armatura
50	COMB 6	0,9	206,839	265,280	4128,158	565,9681534	103,4195	No Armatura
50	COMB 6	0,9	206,839	263,158	4128,158	561,4415171	103,4195	No Armatura
51	COMB 6	0,9	261,648	262,935	4128,158	560,9646773	130,824	No Armatura
51	COMB 6	0,9	261,648	261,441	4128,158	557,777239	130,824	4,573570451
53	COMB 6	1	60,426	306,244	4586,842	661,0916302	30,213	No Armatura
53	COMB 6	1	44,916	305,596	4586,842	659,6924298	22,458	No Armatura
54	COMB 6	1	38,242	305,602	4586,842	659,7074519	19,121	No Armatura
54	COMB 6	1	22,334	305,396	4586,842	659,261956	11,167	No Armatura
55	COMB 6	1	19,589	305,295	4586,842	659,043748	9,7945	No Armatura
55	COMB 6	1	3,325	305,418	4586,842	659,309006	1,6625	No Armatura
56	COMB 6	1	4,459	305,250	4586,842	658,9467676	2,2295	No Armatura
56	COMB 6	1	12,118	305,624	4586,842	659,7547873	6,059	No Armatura
57	COMB 6	1	7,336	305,427	4586,842	659,3284337	3,668	No Armatura
57	COMB 6	1	24,179	305,995	4586,842	660,5557243	12,0895	No Armatura
58	COMB 6	1	16,146	305,802	4586,842	660,1390295	8,073	No Armatura
58	COMB 6	1	33,212	306,522	4586,842	661,6914405	16,606	No Armatura
59	COMB 6	1	22,467	306,364	4586,842	661,3521412	11,2335	No Armatura
59	COMB 6	1	39,710	307,202	4586,842	663,1593427	19,855	No Armatura
60	COMB 6	1	26,909	307,109	4586,842	662,9586068	13,4545	No Armatura
60	COMB 6	1	44,283	308,042	4586,842	664,9745469	22,1415	No Armatura
61	COMB 6	1	30,166	308,038	4586,842	664,9643049	15,083	No Armatura
61	COMB 6	1	47,625	309,061	4586,842	667,1724279	23,8125	No Armatura
62	COMB 6	1	34,432	309,145	4586,842	667,3541186	17,216	No Armatura
62	COMB 6	1	48,425	310,033	4586,842	669,2713179	24,2125	No Armatura



Frame	StepType	Height	Vsdu	Vrdu'	Vrdu''	Vcd	Vwd <sub>min</sub>	Armatura
Text	Text	m	kN	kN	kN	kN	kN	cm <sup>2</sup> /m <sup>2</sup>
1	COMB 7	1	48,460	310,034	4586,842	669,2738756	24,23	No Armatura
1	COMB 7	1	34,467	309,145	4586,842	667,3548496	17,2335	No Armatura
2	COMB 7	1	47,658	309,061	4586,842	667,1732606	23,829	No Armatura
2	COMB 7	1	30,200	308,037	4586,842	664,9631794	15,1	No Armatura
3	COMB 7	1	44,316	308,042	4586,842	664,9735492	22,158	No Armatura
3	COMB 7	1	26,941	307,107	4586,842	662,9557072	13,4705	No Armatura
4	COMB 7	1	39,742	307,200	4586,842	663,1567073	19,871	No Armatura
4	COMB 7	1	22,498	306,362	4586,842	661,3478538	11,249	No Armatura
5	COMB 7	1	33,243	306,520	4586,842	661,6872949	16,6215	No Armatura
5	COMB 7	1	16,177	305,800	4586,842	660,1335297	8,0885	No Armatura
6	COMB 7	1	24,210	305,993	4586,842	660,5503581	12,105	No Armatura
6	COMB 7	1	7,366	305,424	4586,842	659,3217993	3,683	No Armatura
7	COMB 7	1	12,148	305,621	4586,842	659,7482747	6,074	No Armatura
7	COMB 7	1	4,428	305,246	4586,842	658,9388852	2,214	No Armatura
8	COMB 7	1	3,294	305,414	4586,842	659,3012353	1,647	No Armatura
8	COMB 7	1	19,558	305,291	4586,842	659,0345092	9,779	No Armatura
9	COMB 7	1	22,303	305,392	4586,842	659,2529423	11,1515	No Armatura
9	COMB 7	1	38,211	305,598	4586,842	659,6967279	19,1055	No Armatura
10	COMB 7	1	44,884	305,591	4586,842	659,6817067	22,442	No Armatura
10	COMB 7	1	60,394	306,238	4586,842	661,0789674	30,197	No Armatura
12	COMB 7	0,9	261,648	261,441	4128,158	557,777239	130,824	4,573570451
12	COMB 7	0,9	261,648	262,935	4128,158	560,9646773	130,824	No Armatura
13	COMB 7	0,9	206,839	263,158	4128,158	561,4415171	103,4195	No Armatura
13	COMB 7	0,9	206,839	265,280	4128,158	565,9681534	103,4195	No Armatura
14	COMB 7	0,9	156,715	265,607	4128,158	566,6660956	78,3575	No Armatura
14	COMB 7	0,9	156,715	268,692	4128,158	573,2488338	78,3575	No Armatura
15	COMB 7	0,9	111,276	269,197	4128,158	574,3247704	55,638	No Armatura
15	COMB 7	0,9	111,276	273,601	4128,158	583,7221695	55,638	No Armatura
16	COMB 7	0,9	80,354	271,107	4128,158	578,4003937	40,177	No Armatura
16	COMB 7	0,9	77,841	275,849	4128,158	588,517395	38,9205	No Armatura
17	COMB 7	0,9	47,755	277,807	4128,158	592,6938439	23,8775	No Armatura
17	COMB 7	0,9	43,669	282,224	4128,158	602,1187246	21,8345	No Armatura
18	COMB 7	0,9	30,039	286,547	4128,158	611,3410844	15,0195	No Armatura
18	COMB 7	0,9	24,418	289,069	4128,158	616,7210005	12,209	No Armatura
19	COMB 7	0,9	22,069	294,093	4128,158	627,4398829	11,0345	No Armatura
19	COMB 7	0,9	14,965	288,591	4128,158	615,7018175	7,4825	No Armatura
20	COMB 7	0,9	11,954	314,571	4128,158	671,1302747	5,977	No Armatura
20	COMB 7	0,9	3,432	508,861	4128,158	1085,643087	1,716	No Armatura
43	COMB 7	0,9	6,331	508,861	4128,158	1085,643087	3,1655	No Armatura
43	COMB 7	0,9	2,190	508,861	4128,158	1085,643087	1,095	No Armatura
44	COMB 7	0,9	5,590	508,861	4128,158	1085,643087	2,795	No Armatura
44	COMB 7	0,9	1,514	508,861	4128,158	1085,643087	0,757	No Armatura
45	COMB 7	0,9	7,670	508,861	4128,158	1085,643087	3,835	No Armatura
45	COMB 7	0,9	2,049	508,861	4128,158	1085,643087	1,0245	No Armatura
46	COMB 7	0,9	12,528	501,752	4128,158	1070,476159	6,264	No Armatura
46	COMB 7	0,9	8,441	411,245	4128,158	877,3811149	4,2205	No Armatura
47	COMB 7	0,9	15,703	401,421	4128,158	856,4213283	7,8515	No Armatura
47	COMB 7	0,9	13,190	363,818	4128,158	776,1975054	6,595	No Armatura
48	COMB 7	0,9	20,414	355,234	4128,158	757,8839683	10,207	No Armatura
48	COMB 7	0,9	20,414	333,144	4128,158	710,7550485	10,207	No Armatura
49	COMB 7	0,9	12,194	330,456	4128,158	705,0195786	6,097	No Armatura
49	COMB 7	0,9	12,194	329,427	4128,158	702,8255762	6,097	No Armatura
50	COMB 7	0,9	2,297	327,232	4128,158	698,1421767	1,1485	No Armatura
50	COMB 7	0,9	2,297	343,217	4128,158	732,2464439	1,1485	No Armatura
51	COMB 7	0,9	83,986	340,944	4128,158	727,395452	41,993	No Armatura
51	COMB 7	0,9	83,986	508,861	4128,158	1085,643087	41,993	No Armatura
53	COMB 7	1	177,216	449,635	4586,842	970,6330185	88,608	No Armatura
53	COMB 7	1	161,706	372,465	4586,842	804,0436674	80,853	No Armatura
54	COMB 7	1	150,546	371,552	4586,842	802,0743754	75,273	No Armatura
54	COMB 7	1	134,638	346,999	4586,842	749,0714325	67,319	No Armatura
55	COMB 7	1	127,194	346,095	4586,842	747,1200674	63,597	No Armatura
55	COMB 7	1	110,930	334,391	4586,842	721,8528401	55,465	No Armatura
56	COMB 7	1	107,345	333,518	4586,842	719,9692731	53,6725	No Armatura
56	COMB 7	1	90,769	326,855	4586,842	705,5859176	45,3845	No Armatura
57	COMB 7	1	91,020	326,036	4586,842	703,8170056	45,51	No Armatura
57	COMB 7	1	74,176	321,821	4586,842	694,7179336	37,088	No Armatura
58	COMB 7	1	78,078	321,075	4586,842	693,108689	39,039	No Armatura
58	COMB 7	1	61,011	318,192	4586,842	686,8847163	30,5055	No Armatura
59	COMB 7	1	68,225	317,540	4586,842	685,4762724	34,1125	No Armatura
59	COMB 7	1	50,981	315,427	4586,842	680,9161758	25,4905	No Armatura
60	COMB 7	1	61,025	314,884	4586,842	679,7432052	30,5125	No Armatura
60	COMB 7	1	43,651	313,232	4586,842	676,1766262	21,8255	No Armatura
61	COMB 7	1	55,923	312,809	4586,842	675,2633356	27,9615	No Armatura
61	COMB 7	1	38,464	311,436	4586,842	672,3009094	19,232	No Armatura
62	COMB 7	1	50,863	311,161	4586,842	671,7072467	25,4315	No Armatura
62	COMB 7	1	36,870	310,192	4586,842	669,6146976	18,435	No Armatura